Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

February 25, 2009
BW090022

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the January 2009 Discharge Monitoring Report for Braidwood Station as required by our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

Enclosure

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	01	01	To:	09	01	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.3	3.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	5.56	5.56	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.083	0.113	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	09 YEAR	02 MONTH	25 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	01	01	To:	09	01	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	3.01	6.26	(26)	---------	6.0	7.9	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.49	---------	7.80	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	-----	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.63	3.13	(26)	---------	3.43	7.33	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.034	0.125	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 09	MONTH: 02	DAY: 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	01	01	To:	09	01	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** **NO DISCHARGE** XXX ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	----------	---------	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	----------	---------	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	---------	----------	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	02	25
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge during January 2009.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	01	01	To:	09	01	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	< 0.75	< 1.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.033	0.049	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 09	MONTH: 02	DAY: 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	01	01	To:	09	01	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	49.8	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.68	----------	8.98	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	35.42	36.54	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	---	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1499	2234	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 09	MONTH: 02	DAY: 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

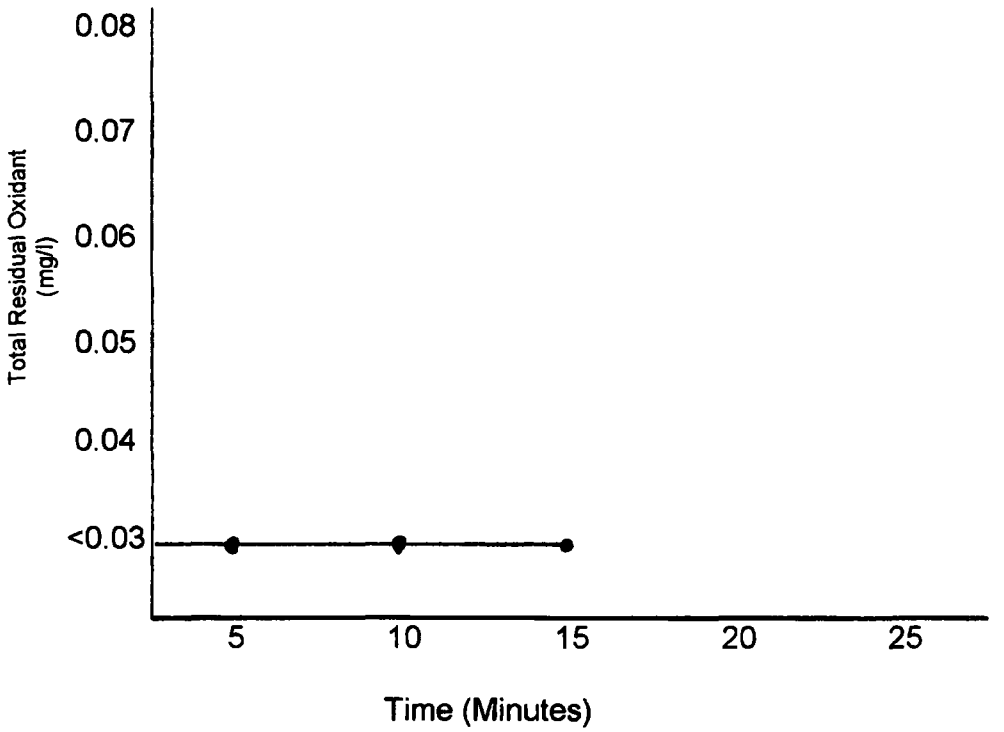
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: January 22, 2009
Time: 1:38 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

January Bromine Usage: 267 lbs. Monthly Average
346 lbs. Daily Maximum

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Nuclear Station

bcc: J. Bolte

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon.
Nuclear

March 25, 2009
Bw090030

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the February 2009 Discharge Monitoring Report for Braidwood Station as required by our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

Enclosure

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	02	01	To:	09	02	28

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-------	-------	(26)	-------	2.0	3.6	(19)	0	240	DC
	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP 24
OIL AND GREASE (SOXHLET EXTR.) TOT 00550 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-------	-------	(26)	-------	5.4	5.4	(19)	0	285	GR
	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.064	0.103	(03)	-------	-------	-------	----	0	135	TM
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 09	MONTH 03	DAY 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
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FACILITY Braidwood Nuclear Power Station
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IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	02	01	To:	09	02	28

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	2.0	2.8	(26)	———	5.5	6.3	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	———	———	—	7.3	———	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			—	6.0 MINIMUM		9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.0	1.3	(26)	———	2.7	3.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.039	0.163	(03)	———	———	———	—	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 09	MONTH 03	DAY 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	02	01	To:	09	02	28

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	< 0.63	< 1.0	(19)	0	240	DC
	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.018	0.043	(03)	———	———	———	———	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				———		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	03	25
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	02	01	To:	09	02	28

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	———	———	---	———	———	59.6	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	---	———	———	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	———	———	---	8.7	———	9.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	---	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	33.48	37.49	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	N/A(1)	(19)	---	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	———	———	---	———	———	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	---	———	———	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2366	2733	(26)	———	———	———	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	———	———	———	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 417-2000 AREA CODE NUMBER	09 03 25 YEAR MONTH DAY		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	02	01	To:	09	02	28

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	3.73	5.2	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	3.7	3.7	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	———	———	———	———	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	———		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 09	MONTH: 03	DAY: 25

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Samples taken weekly, when discharging. No discharge during the week of 2/23/09.

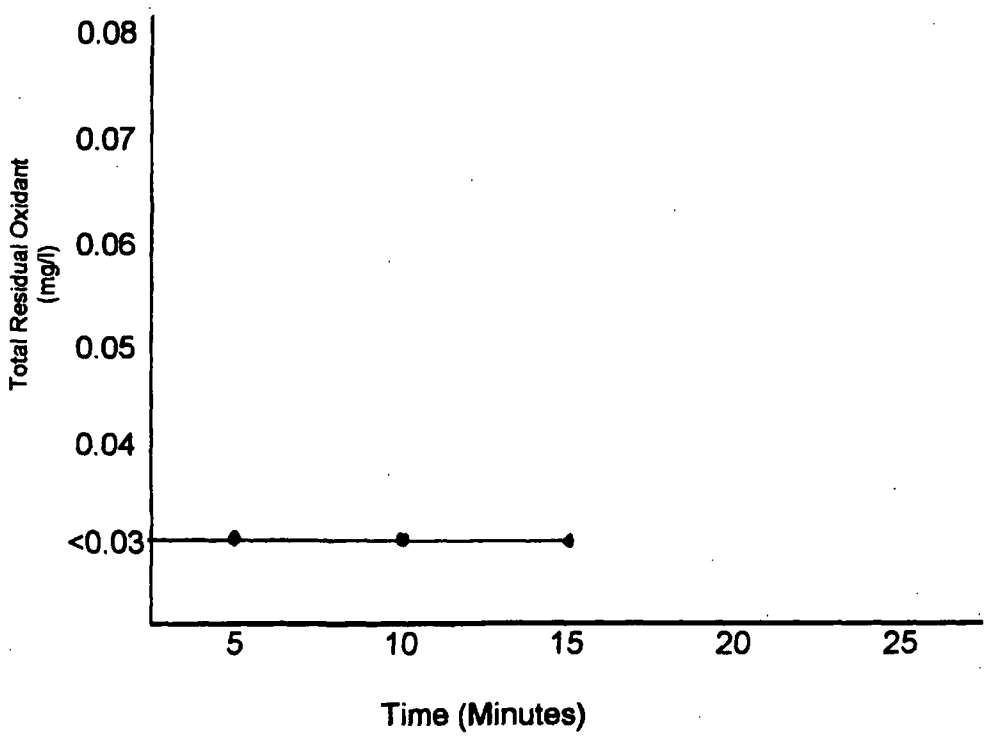
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: February 9, 2009
Time: 2:00 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

February Bromine Usage: 186 lbs. Monthly Average
497 lbs. Daily Maximum

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Nuclear Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

April 24, 2009
BW090039

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the March 2009 Discharge Monitoring Report for Braidwood Station as required by our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

Enclosure

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	03	01	To:	09	03	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.6	4.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	5.4	5.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.059	0.084	(03)	----------	----------	----------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 09	MONTH 04	DAY 24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	03	01	To:	09	03	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	4.3	9.1	(26)	---------	9.9	16	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.3	---------	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	----	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.8	3.0	(26)	---------	4.7	7.5	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.044	0.085	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815 AREA CODE	417-2000 NUMBER	09 YEAR	04 MONTH	24 DAY
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	03	01	To:	09	03	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	2.7	3.2	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	2.3	2.3	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	-------	-------	-------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	04	24
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Samples taken weekly, when discharging. No discharge the weeks of 3/2/09, 3/9/09 and 3/16/09.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	03	01	To:	09	03	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	0.68	< 1.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.019	0.043	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	04	24
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	03	01	To:	09	03	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	70.1	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	-----	------	------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.6	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	-----	6.0 MINIMUM	------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	32.96	36.14	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	------	------	------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	---	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110*	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	-----	------	------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2081	2360	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	------	------	------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	04	24
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)
*3/27/09 - While attempting to chlorinate U1 CW system the operator found that chlorine was flowing to U2 CW system due to failure of the 2CF263C valve. U2 CW system was chlorinated for 110 minutes and U1 CW system was chlorinated for 70 minutes on 3/27/09. The U2 CW chlorination system was immediately isolated and valve was repaired. The de-chlorination system remained operable throughout this evoluation.

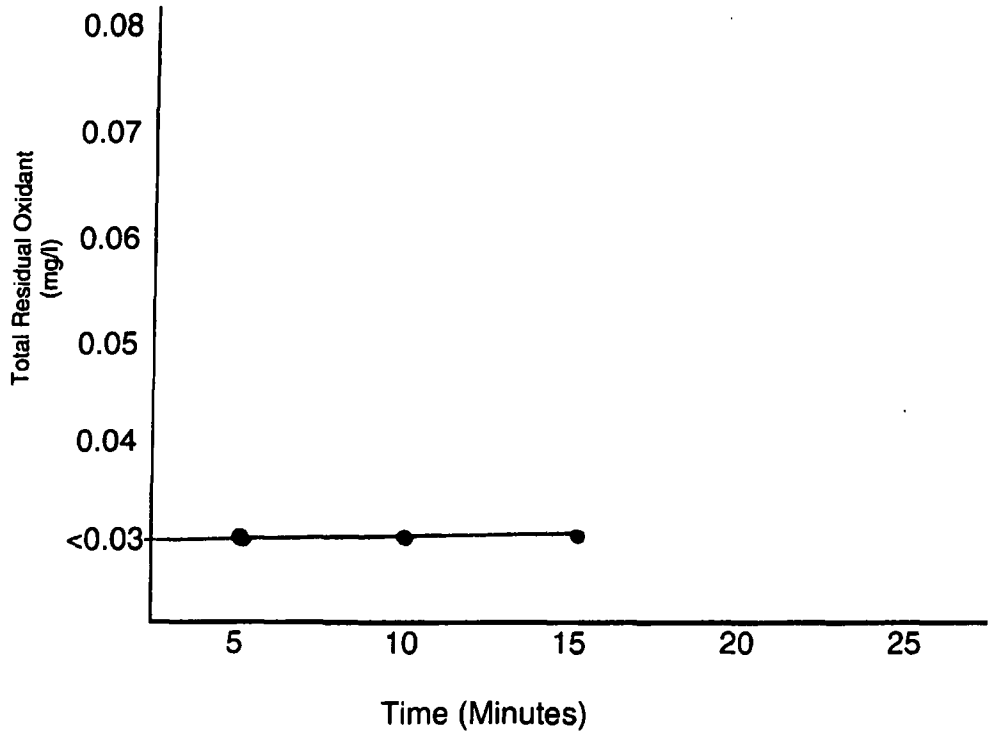
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: March 5, 2009
Time: 12:20 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

March Bromine Usage: 478 lbs. Monthly Average
601 lbs. Daily Maximum

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Nuclear Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

May 27, 2009
BW090049

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the April 2009 Discharge Monitoring Report for Braidwood Station as required by our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

Enclosure

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	04	01	To:	09	04	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.1	2.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	<1	<1	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.069	0.097	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	09 YEAR	05 MONTH	27 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	04	01	To:	09	04	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	5.36	12.65	(26)	----------	24.9	60	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	-----	7.5	----------	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	3.97	10.3	(26)	----------	18.9	56	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.026	0.042	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 09	MONTH 05	DAY 27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	04	01	To:	09	04	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---------	---------	(26)	---------	0.8	1.2	(19)	0	240	DC
	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.029	0.052	(03)	---------	---------	---------	-----	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	05	27
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	04	01	To:	09	04	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	71.6	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.5	----------	8.75	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	21.19	22.32	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A (1)	(19)	---	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1585	2295	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	05	27
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	04	01	To:	09	04	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.3	3.3	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	< 1.0	< 1.0	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.009	0.010	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	05	27
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

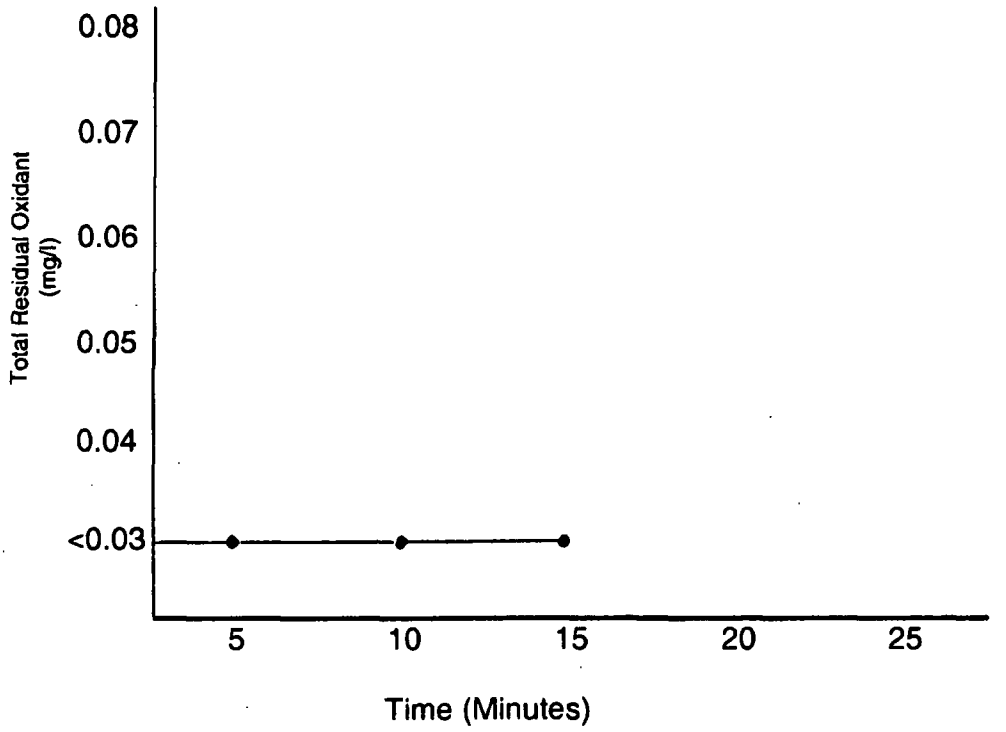
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: April 2, 2009
Time: 3:25 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

April Bromine Usage: 369 lbs. Monthly Average
691 lbs. Daily Maximum

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Nuclear Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

June 26, 2009
BW090064

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the May 2009 Discharge Monitoring Report for Braidwood Station as required by our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Brian Jackson

for Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

Enclosure

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	05	01	To:	09	05	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.9	2.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	5.2	5.2	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.067	0.104	(03)	-------	-------	-------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	AREA CODE: 815	NUMBER: 417-2000	YEAR: 09	MONTH: 06	DAY: 26
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT: Brian Lehr FOR L. COYLE					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	05	01	To:	09	05	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.2	2.5	(26)	-------	6.0	9.1	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	-------	-------	----	7.4	-------	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.2	2.9	(26)	-------	5.2	10.5	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.021	0.049	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	09	06	26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

FOR L. COYLE

EPA Form 3320-1 (Rev 3/99) **DR** PAGE 1 OF 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	05	01	To:	09	05	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.4	3.3	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	3.0	3.0	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	-------	-------	-------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 09	MONTH 06	DAY 26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

FOR L. COYLE

No discharge week of 5/11/09.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	05	01	To:	09	05	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	< 0.6	< 1.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.024	0.042	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815 AREA CODE	417-2000 NUMBER	09 YEAR	06 MONTH	26 DAY
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

For L. Coyle

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	05	01	To:	09	05	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	———	———	----	———	———	86.1	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	----	———	———	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	———	———	----	8.5	———	8.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	----	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	20.68	21.60	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	N/A (1)	(19)	---	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	———	———	----	———	———	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	----	———	———	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1675	2295	(26)	———	———	———	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO.AVG	REPORT DAILY MAX	LBS/DY	———	———	———	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED		815	417-2000	09	06	26

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

Brian Acker
For L. Coyle

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

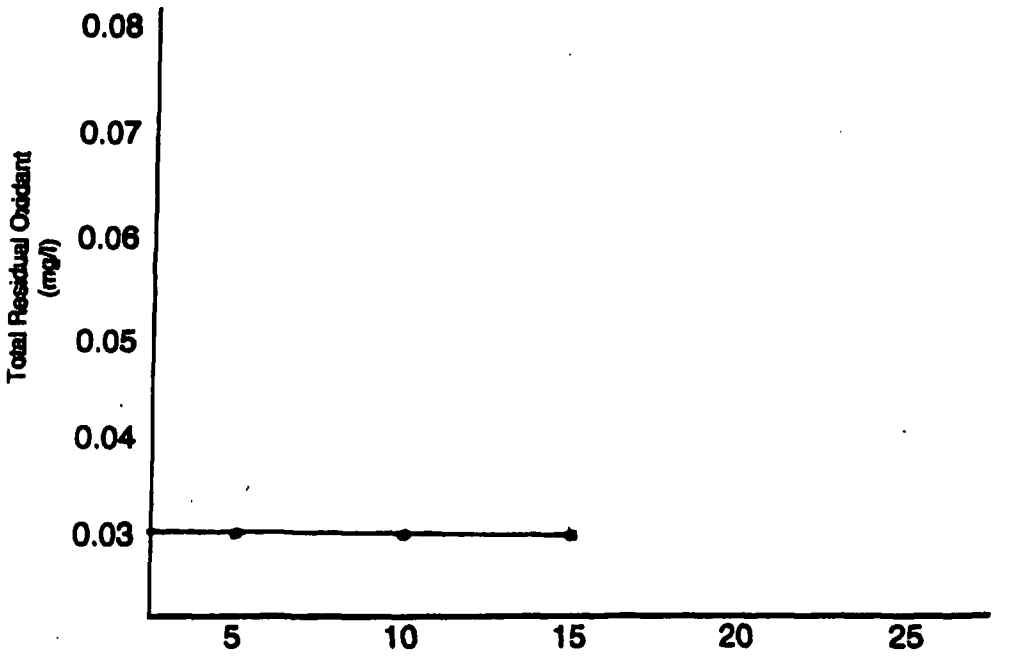
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: May 22, 2009
Time: 1:20 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

May Bromine Usage: 361 lbs. Monthly Average
677 lbs. Daily Maximum

Total Residual Oxidant mean concentration - 0.03 mg/l

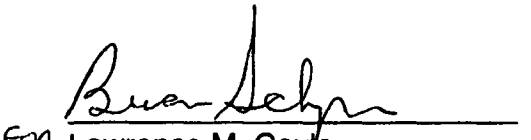
FOR Lawrence M. Coyle, Plant Manager
Braidwood Nuclear Station

Attachment 2

May 2009 Discharge Monitoring Report

Special Condition 7 of our permit imposes pumping restrictions at the River Screen House during a four week period (last three weeks of May and the first week of June) when pumping will be allowed only during daylight hours. Listed below are the dates and times the make-up pumps were operated during the May 2009 restricted period.

Date	Start Time	Stop Time	# Pumps Operating
5/11/09	8:50 a.m.	6:00 p.m.	2
5/12/09	8:50 a.m.	6:20 p.m.	2
5/13/09	9:54 a.m.	6:05 p.m.	2
5/14/09	10:00 a.m.	6:00 p.m.	3
5/15/09	9:45 a.m.	5:42 p.m.	2
5/16/09	N/A	N/A	0
5/17/09	N/A	N/A	0
5/18/09	N/A	N/A	0
5/19/09	9:09 a.m.	6:20 p.m.	2
5/20/09	9:05 a.m.	5:45 p.m.	2
5/21/09	9:20 a.m.	6:15 p.m.	2
5/22/09	8:52 a.m.	6:00 p.m.	2
5/23/09	8:55 a.m.	5:52 p.m.	2
5/24/09	8:43 a.m.	5:45 p.m.	2
5/25/09	9:15 a.m.	6:15 p.m.	2
5/26/09	10:10 a.m.	6:10 p.m.	2
5/27/09	10:32 a.m.	5:52 p.m.	2
5/28/09	9:00 a.m.	6:15 p.m.	2
5/29/09	9:35 a.m.	6:02 p.m.	2
5/30/09	9:52 a.m.	6:08 p.m.	2
5/31/09	9:05 a.m.	6:13 p.m.	2



FOR Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon
Nuclear

July 23, 2009
BW090071

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the June 2009 Discharge Monitoring Report for Braidwood Station as required by our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

Enclosure

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	06	01	To:	09	06	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.1	5.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L	-	WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	5.0	5.0	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L	-	ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	.068	.126	(03)	----------	----------	----------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 09	MONTH 07	DAY 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	06	01	To:	09	06	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.3	1.6	(26)	———	10.6	21	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	———	———	—	7.5	———	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	0.8	0.9	(26)	———	5.9	9.7	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.018	0.033	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	09	07	23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	06	01	To:	09	06	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	4.6	4.6	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.5	1.5	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	.010	.010	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	09	07	23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge weeks of 6/1/09, 6/8/09, 6/15/09, 6/29/09

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	06	01	To:	09	06	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	0.8	1.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.034	0.052	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 09	MONTH 07	DAY 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	06	01	To:	09	06	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	97.9	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	-------	-------	----	8.0	-------	8.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.05 DAILY MAX.	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	11.38	21.17	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	N/A(1)	(19)	---	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1821	2228	(26)	-------	-------	-------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	-------	-------	-------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 09	MONTH: 07	DAY: 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

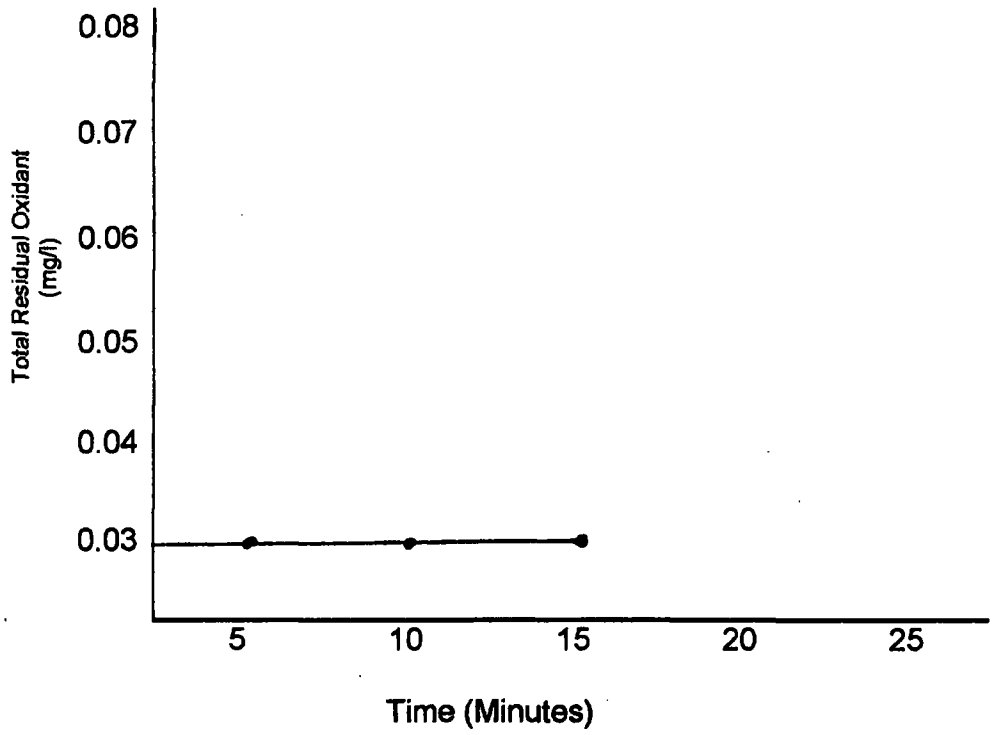
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: June 17, 2009
Time: 1:25 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

June Bromine Usage: 470 lbs. Monthly Average
724 lbs. Daily Maximum

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Nuclear Station

Attachment 2

June 2009 Discharge Monitoring Report

Special Condition 7 of our permit imposes pumping restrictions at the River Screen House during a four week period (last three weeks of May and the first week of June) when pumping will be allowed only during daylight hours. Listed below are the dates and times the make-up pumps were operated during the June 2009 restricted period.

Date	Start Time	Stop Time	# Pumps Operating
6/1/09	10:30 a.m.	6:10 p.m.	3
6/2/09	9:45 a.m.	6:00 p.m.	2
6/3/09	9:00 a.m.	6:05 p.m.	3
6/4/09	8:30 a.m.	6:15 p.m.	2
6/5/09	8:40 a.m.	5:50 p.m.	2
6/6/09	8:30 a.m.	6:20 p.m.	2
6/7/09	9:20 a.m.	6:13 p.m.	2

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

COPY

August 27, 2009
BW090082

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Notification of Sewage Treatment BOD Non-Compliance

For the month of July 2009, Braidwood Station Sewage Treatment Plant Effluent, outfall 001(b), exceeded the 30 day average concentration limit of 30 mg/L for BOD_5. The average concentration value was 35 mg/L.

The elevated BOD_5 was due to emergent equipment malfunctions leading to inefficient operational effectiveness of the sewage treatment system. The corrective actions to prevent recurrence include but are not limited to repair and replacement of system pumps and components. All planned system repairs were complete on Monday August 24, 2009. Increased system oversight continues and additional repairs will be made as necessary to ensure operational effectiveness.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

August 27, 2009
BW090081

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

COPY

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the July 2009 Discharge Monitoring Report for Braidwood Station as required by our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Station

Enclosures

COPY

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	07	01	To:	09	07	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---------	---------	(26)	---------	3.4	4.8	(19)	0	240	DC
	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT 00550 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---------	---------	(26)	---------	2.0	2.0	(19)	0	285	GRAB
	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	.054	.128	(03)	---------	---------	---------	----	0	135	TM
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 09	MONTH 08	DAY 27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT [illegible]GE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	07	01	To:	09	07	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	3.5	5.1	(26)	---------	35	56	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	----	7.8	---------	8.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	----	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.2	1.7	(26)	---------	12.8	20.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.016	0.035	(03)	---------	---------	---------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	09	08	27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

BOD, 5-Day Monthly Average exceeded permit limit. See attached Notice of Sewage Treatment BOD Non-Compliance

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	07	01	To:	09	07	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.6	2.1	(19)	0	240	CP
	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT 00550 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.4	1.4	(19)	0	285	GR
	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	.010	.010	(03)	---------	---------	---------	-----	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	09	08	27
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge weeks of 7/6/09, 7/20/09, 7/27/09

NATIONAL POLLUTANT [illegible]GE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	07	01	To:	09	07	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	0.9	1.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.022	0.042	(03)	-------	-------	-------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	08	27
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	07	01	To:	09	07	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	91.3	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.5	----------	8.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	19.67	20.88	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A (1)	(19)	---	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2196	2471	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	08	27
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

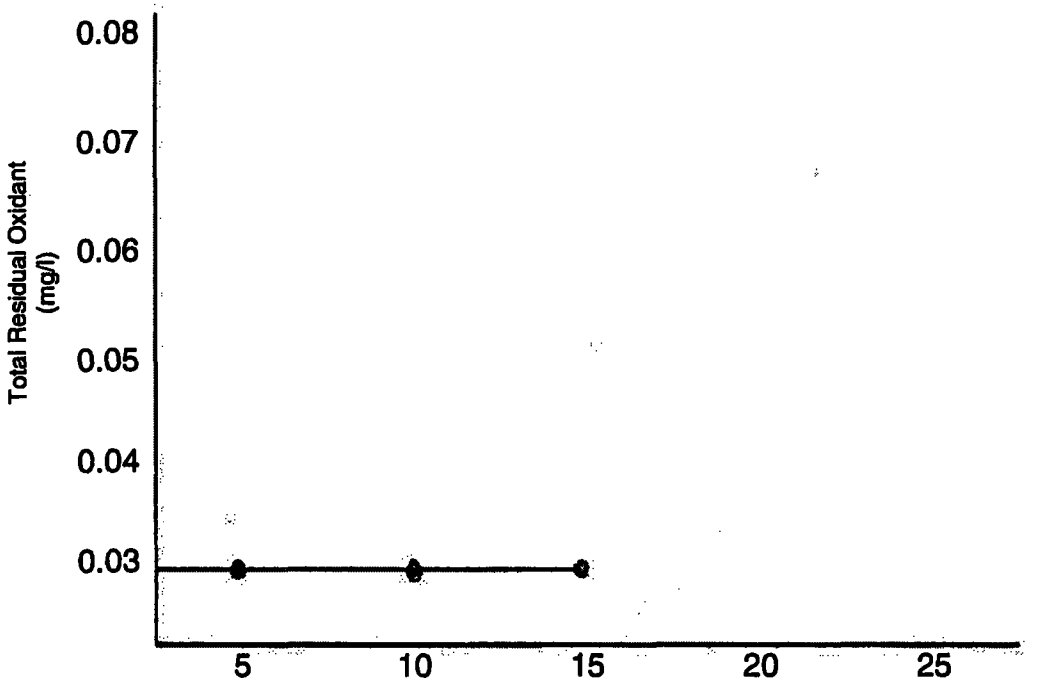
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: July 20, 2009
Time: 3:05 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

July Bromine Usage: 483 lbs. Monthly Average
616 lbs. Daily Maximum

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

September 28, 2009
BW090092

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the August 2009 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	08	01	To:	09	08	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	2.4	3.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	2.1	2.1	(19)	0	285	GRAB
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.53	0.81	(03)	-------	-------	-------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	09	09	28
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	08	01	To:	09	08	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	9.7	17.3	(26)	---------	29	34	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.1	---------	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.6	2.2	(26)	---------	5.7	10.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.024	0.064	(03)	---------	---------	---------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Lawrence M. Coyle
Plant Manager
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MONTH	DAY
815	417-2000	09	09	28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge due to maintenance activities week of 8/17/09.
Station used portable bathrooms during this maintenance window.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	08	01	To:	09	08	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

••• NO DISCHARGE ☐ •••

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	1.2	2.2	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	09	09	28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 8/10/09.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From	09	08	01	To:	09	08	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	----------	----------	(26)	----------	0.5	0.5	(19)	0	240	DC
	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.022	0.043	(03)	----------	----------	----------	-----	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	09	28
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	08	01	To:	09	08	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	92.9	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	-------	-------	----	8.5	-------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	27.81	33.84	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	N/A (1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2289	2670	(26)	-------	-------	-------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	-------	-------	-------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	09	09	28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

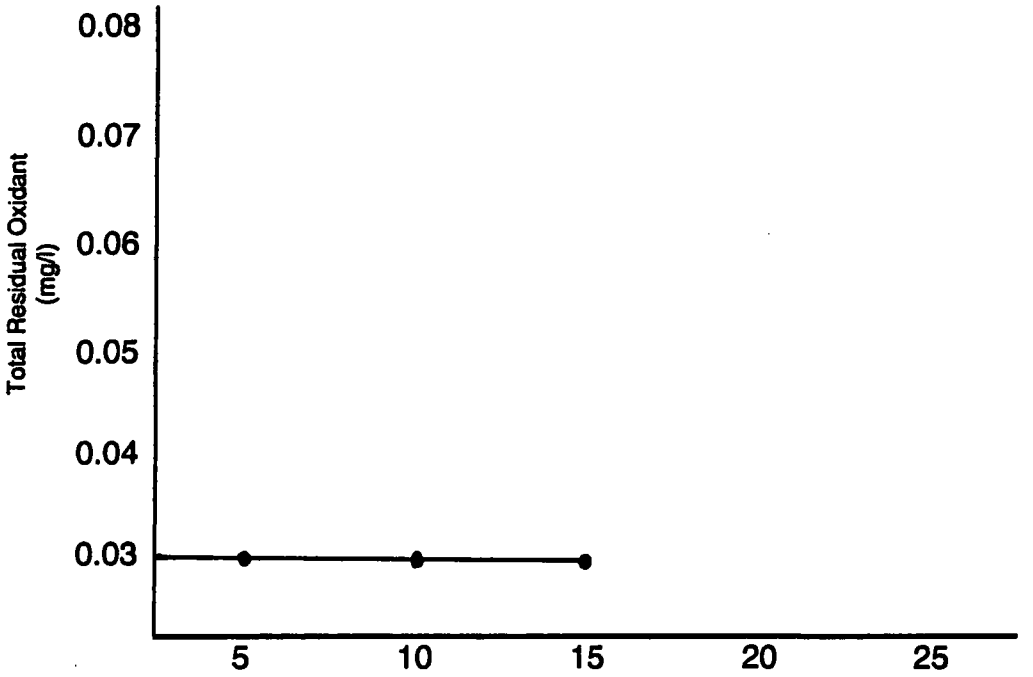
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: August 20, 2009
Time: 1:20 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

August Bromine Usage: 609 lbs. Monthly Average
709 lbs. Daily Maximum

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

October 23, 2009
BW090114

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the September 2009 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	09	01	To:	09	09	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	2.0	2.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.4	1.4	(19)	0	285	GRAB
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.53	0.74	(03)	-------	-------	-------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	10	23
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	09	01	To:	09	09	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	6.2	11.0	(26)	----------	19.3	30	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	----	7.8	----------	8.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.9	3.6	(26)	----------	6.0	10.7	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.030	0.075	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 09	MONTH: 10	DAY: 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	09	01	To:	09	09	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	1.6	2.2	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	———	———	———	—	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle *Plant Manager* TYPED OR PRINTED	*I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.*	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	09	10	23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 9/7/09, 9/21/09 and 9/28/09.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	09	01	To:	09	09	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	0.6	1	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.021	0.042	(03)	———	———	———	—	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 09	MONTH: 10	DAY: 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	09	01	To:	09	09	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	———	———	---	———	———	90.7	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	---	———	———	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	———	———	---	8.5	———	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	---	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	31.87	35.71	(03)	———	———	———	---	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	---		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	N/A (1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	———	———	---	———	———	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	---	———	———	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2663	2708	(26)	———	———	———	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	———	———	———	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	09	10	23
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

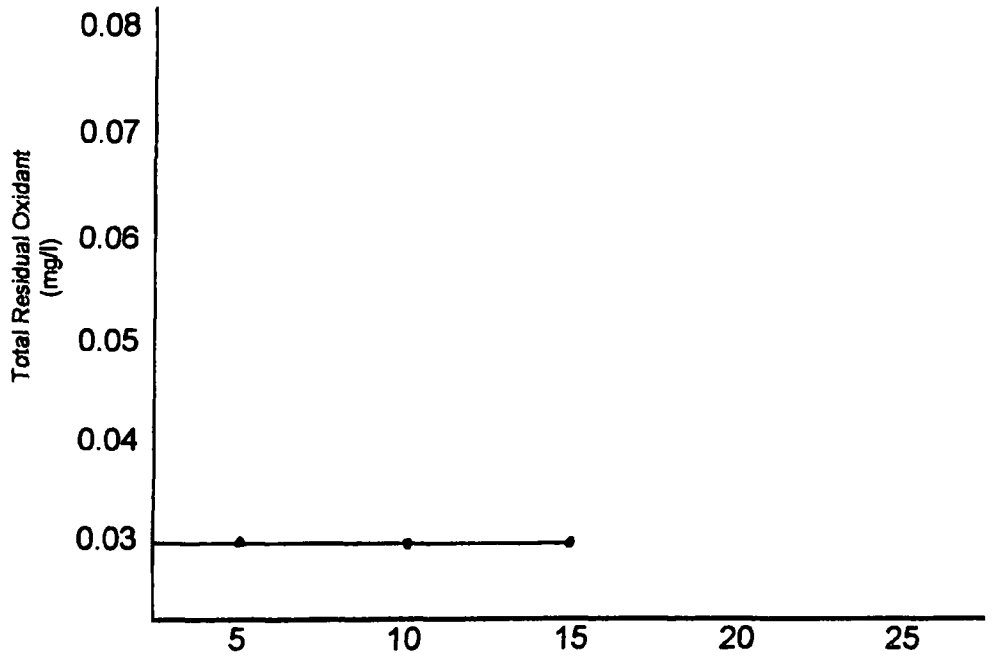
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: September 14, 2009
Time: 1:15 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

September Bromine Usage: 643 lbs. Monthly Average
709 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

November 24, 2009
BW090120

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the October 2009 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321. Also attached are corrected pages for August and September reports. The corrected pages are for Discharge Number 001A, Final Wastewater Treatment Plant Effluent. The corrected parameters are Average Daily Flow and Maximum Daily Flow. These values were previously reported higher than actual flows due to a calculation error. Please replace August and September 2009 Wastewater Treatment Plant Effluent pages with the provided corrected pages.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

for L. Coyle
Thomas P. McCool (Operations Director)

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	10	01	To:	09	10	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	3.5	4.5	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	3.0	3.0	(19)	0	285	GRAB
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.070	0.110	(03)	———	———	———	———	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	———		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 09	MONTH: 11	DAY: 24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	10	01	To:	09	10	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	4.8	11.5	(26)	———	23.2	43	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	———	———	———	7.7	———	8.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	———	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	2.3	3.8	(26)	———	12.9	21.3	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.023	0.051	(03)	———	———	———	———	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	———		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Lawrence M. Coyle

Plant Manager

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
815	417-2000	09	11	24
AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	10	01	To:	09	10	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

••• NO DISCHARGE ☐ •••

NOTE: *Read instructions before completing this form*

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	1.9	2.7	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.009	0.010	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	———		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	11	24
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	10	01	To:	09	10	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	0.7	1	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.028	0.034	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	11	24
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	10	01	To:	09	10	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	———	———	—	———	———	75.0	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	———	———	REPORT DAILY MAX.	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	———	———	—	8.8	———	9.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	20.41	21.46	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	———	———	—	———	———	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	———	———	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1717	2613	(26)	———	———	———	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	———	———	———	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	09	11	24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

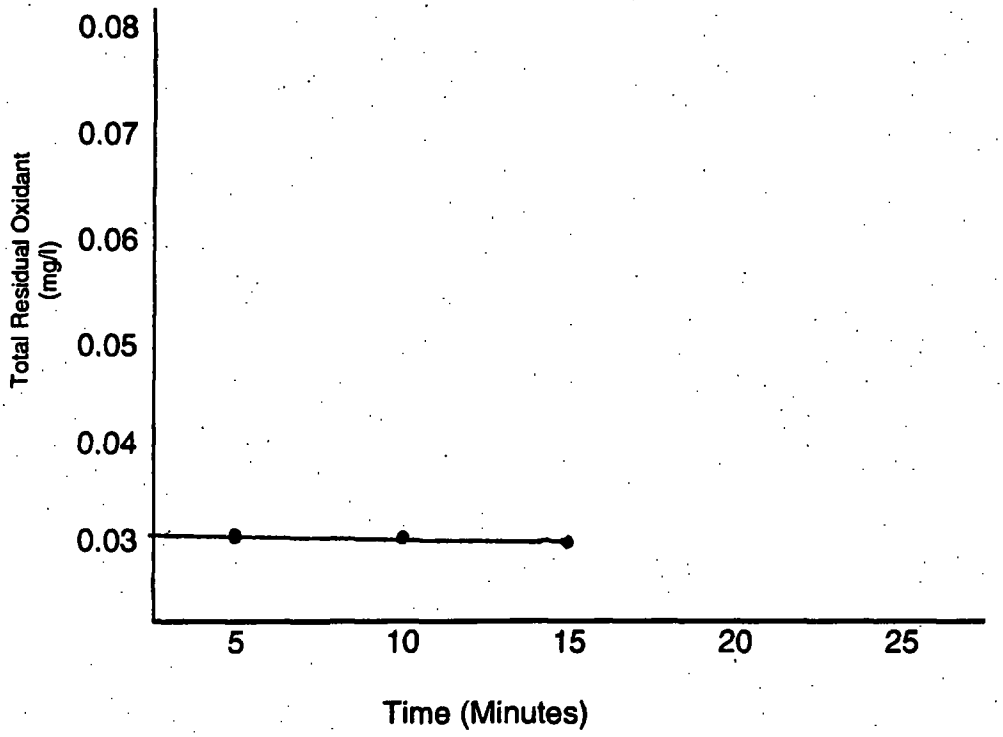
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: October 8, 2009
Time: 3:48 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

October Bromine Usage: 424 lbs. Monthly Average
954 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRES 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATIC 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	08	01	To:	09	08	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	2.4	3.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	2.1	2.1	(19)	0	285	GRAB
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.053	0.081	(03)	———	———	———	—	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 09	MONTH: 11	DAY: 24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Corrected Average Daily Flow and Maximum Daily Flow previously reported as 0.53 MGD and 0.81 MGD.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRES 4300 Winfield Road
Warrenville, IL 60555

FACILIT Braidwood Nuclear Power Station
LOCATI 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	09	01	To:	09	09	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	2.0	2.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	1.4	1.4	(19)	0	285	GRAB
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.053	0.074	(03)	———	———	———	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	09	11	24
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

Corrected Average Daily Flow and Maximum Daily Flow previously reported as 0.53 MGD and 0.74 MGD.

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

December 17, 2009
BW090148

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the November 2009 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	11	01	To:	09	11	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	1.7	3.1	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	1.4	1.4	(19)	0	285	GRAB
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.071	0.103	(03)	———	———	———	—	0	135	tm
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	09	12	17
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	11	01	To:	09	11	30

••• NO DISCHARGE ☐ •••

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.9	4.1	(26)	———	11.1	17	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	———	———	—	7.5	———	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.2	1.6	(26)	———	7.4	10.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.012	0.029	(03)	———	———	———	—	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 09	MONTH 12	DAY 17

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	11	01	To:	09	11	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

••• NO DISCHARGE ☐ •••

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	1.1	1.5	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG.	30.0 DAILY MAX.	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG.	20.0 DAILY MAX.	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.009	0.010	(03)	———	———	———	—	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG.	REPORT DAILY MAX.	MGD	———	———	———	—		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
Lawrence M. Coyle
Plant Manager
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE			DATE		
AREA CODE	NUMBER		YEAR	MONTH	DAY
815	417-2000		09	12	17

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	11	01	To:	09	11	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	0.8	1	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.020	0.036	(03)	———	———	———	—	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OR PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 09	MONTH 12	DAY 17

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

POOR QUALITY ORIGINAL

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	11	01	To:	09	11	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

••• NO DISCHARGE ☐ •••

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	———	———	—	———	———	67.0	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	———	———	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	———	———	—	8.7	———	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	24.17	34.99	(03)	———	———	———	—	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	———	———	—	———	———	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	———	———	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2004	2250	(26)	———	———	———	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	———	———	———	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED		815	417-2000	09	12	17

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

POOR QUALITY ORIGINAL

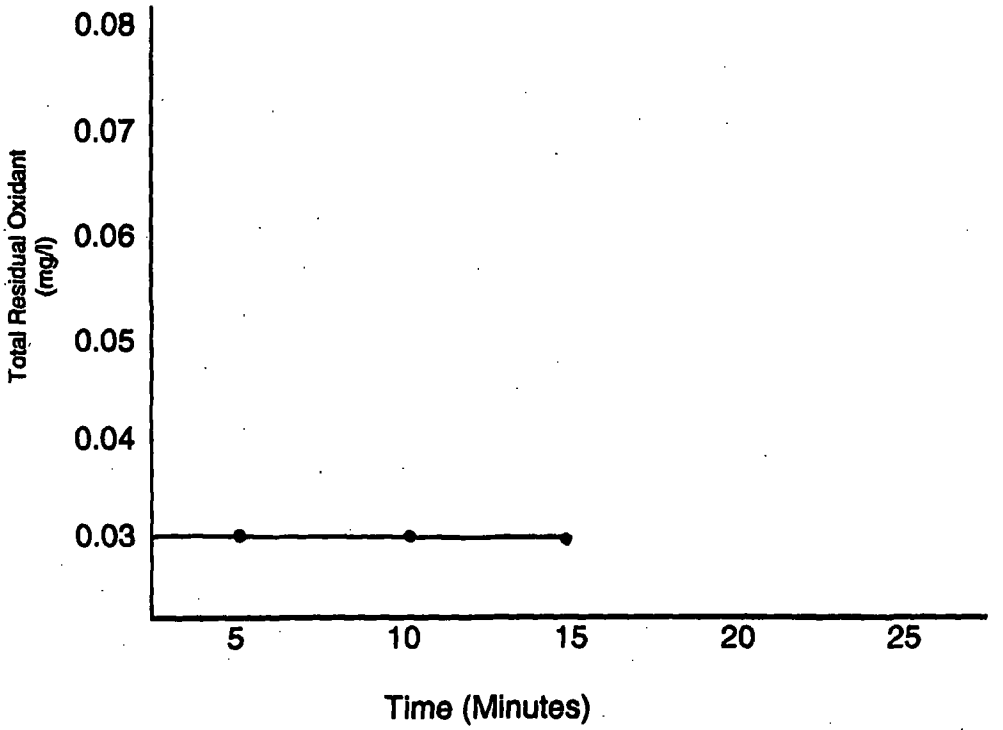
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: November 2, 2009
Time: 12:23 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

November Bromine Usage: 357 lbs. Monthly Average
475 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

January 27, 2010
BW100014

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the December 2009 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	12	01	To:	09	12	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.8	4.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.3	2.3	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.055	0.089	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	01	27
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	12	01	To:	09	12	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	4.0	11.4	(26)	---------	12.4	29	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.6	---------	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----	----	----	6.0 MINIMUM	----	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	3.8	7.8	(26)	---------	12.4	24.5	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.018	0.073	(03)	---------	-------	---------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----	----	----	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	----	----		----	----	----			----	----
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	----	----		----	----	----			----	----
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	----	----		----	----	----			----	----

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 01	DAY 27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	12	01	To:	09	12	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.3	1.3	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	01	27
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge weeks of 12/1/09, 12/14/09, 12/21/09 and 12/28/09.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	12	01	To:	09	12	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	0.9	1.9	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.031	0.033	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 01	DAY 27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	09	12	01	To:	09	12	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	59.5	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			-----			REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.7	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			-----	6.0 MINIMUM		9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY			0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	36.55	38.59	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY			0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			-----			REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1705	2022	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY				MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	01	27
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

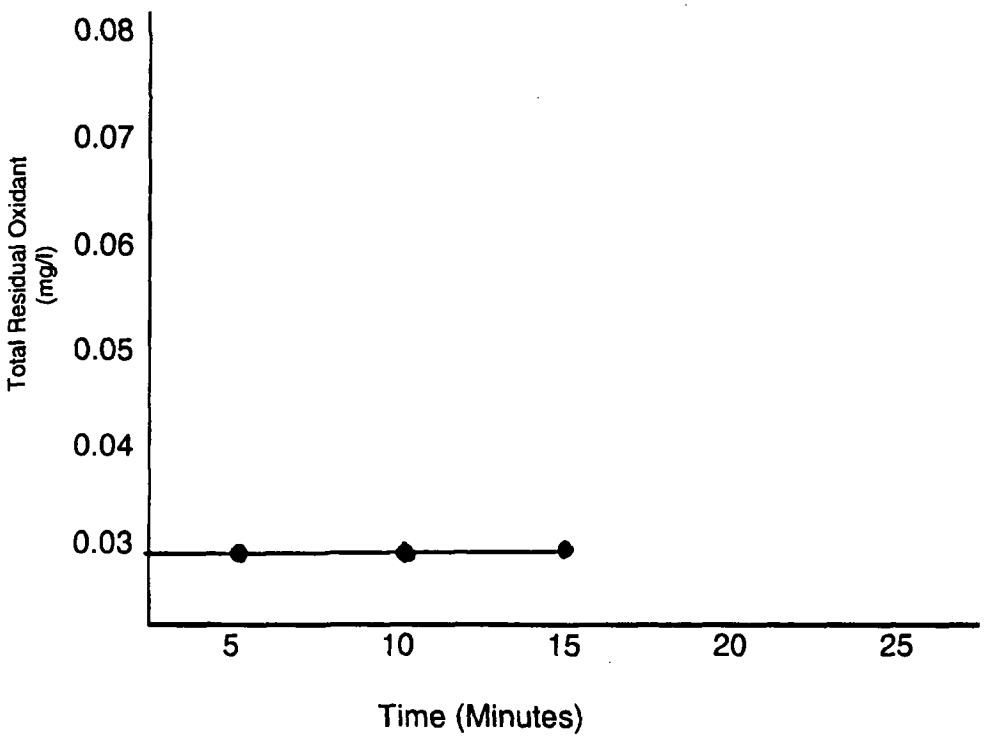
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: December 17, 2009
Time: 1:35 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

December Bromine Usage: 337 lbs. Monthly Average
576 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon
Nuclear

February 26, 2010
BW100028

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the January 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	01	01	To:	10	01	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	3.0	3.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	2.9	2.9	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.079	0.119	(03)	———	———	———	———	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	———		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	02	26
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	01	01	To:	10	01	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	3.4	6.1	(26)	———	7.4	9.2	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	———	———	----	7.6	———	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	----	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	3.1	3.8	(26)	———	7.3	9.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.034	0.092	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 02	DAY 26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	01	01	To:	10	01	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	2.0	2.0	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	10	02	26
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge weeks of 1/4/10, 1/11/10 and 1/18/10.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	01	01	To:	10	01	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	0.6	0.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.037	0.049	(03)	———	———	———	———	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	———		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	02	26
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	01	01	To:	10	01	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

••• NO DISCHARGE ☐ •••

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	———	———	—	———	———	55.7	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	———	———	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	———	———	—	8.6	———	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	36.53	37.86	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	———	———	—	———	———	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	———	———	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1529	1740	(26)	———	———	———	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	———	———	———	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	02	26
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and *all attachments* were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

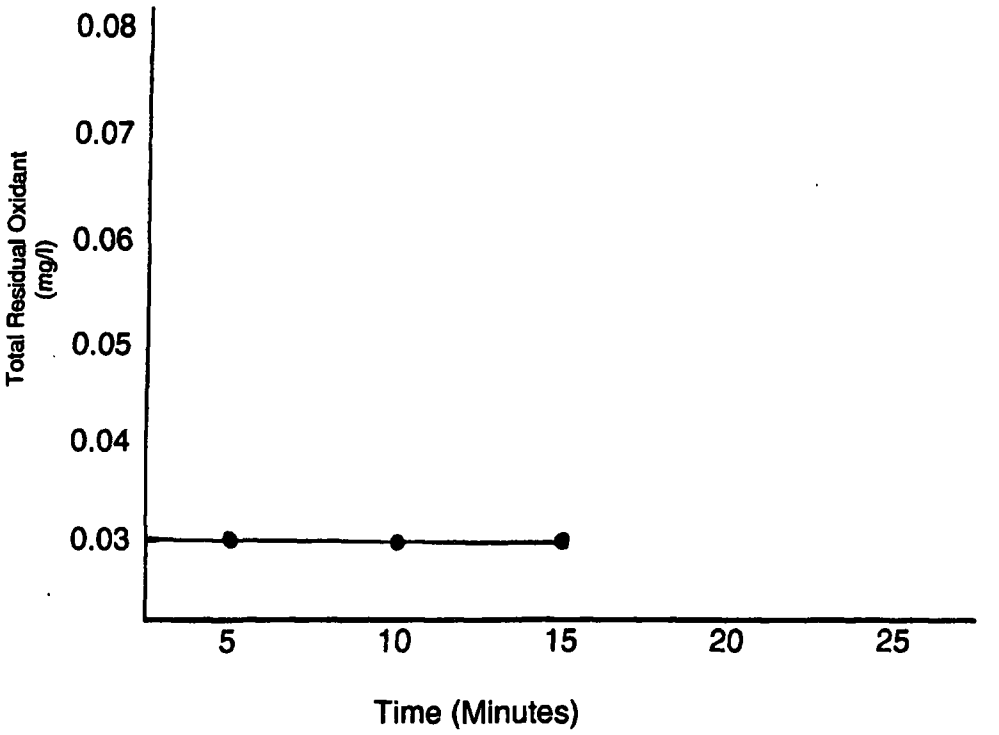
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: January 6, 2010
Time: 2:44 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

January Bromine Usage: 295 lbs. Monthly Average
403 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

March 22, 2010
BW100036

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the February 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	02	01	To:	10	02	28

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

***NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	2.3	3.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	2.3	2.3	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.077	0.113	(03)	———	———	———	———	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				———		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 03	DAY 22

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	02	01	To:	10	02	28

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.5	2.0	(26)	———	7.0	10.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY		30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	———	———	----	7.4	———	7.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			---	6.0 MINIMUM		9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.3	1.6	(26)	———	6.4	13.7	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY		30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.042	0.149	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 03	DAY 22

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	02	01	To:	10	02	28

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	1.7	3.6	(19)	0	240	CP
	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT 00550 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	1.4	1.4	(19)	0	285	GR
	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.010	0.010	(03)	———	———	———	—	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				—		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	10 YEAR	03 MONTH	22 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 2/22/10.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	02	01	To:	10	02	28

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	2.8	9.0	(19)	0	240	DC
	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.039	0.042	(03)	———	———	———	———	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				———		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	10	03	22

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	02	01	To:	10	02	28

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	———	———	———	———	———	57.1	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	———	———	———	REPORT DAILY MAX	DEG. F	———	DAILY	CONTIN
PH	SAMPLE MEASUREMENT	———	———	———	8.7	———	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	———	6.0 MINIMUM	———	9.0 MAXIMUM	SU	———	WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.05 DAILY MAX	MG/L	———	ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	35.69	36.14	(03)	———	———	———	———	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	———	———	DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.2 DAILY MAX	MG/L	———	ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	———	———	———	———	———	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	———	———	———	REPORT DAILY MAX	MINUTES	———	SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1448	1772	(26)	———	———	———	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	———	———	———	MG/L	———	SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle *Plant Manager* TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	10	03	22
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

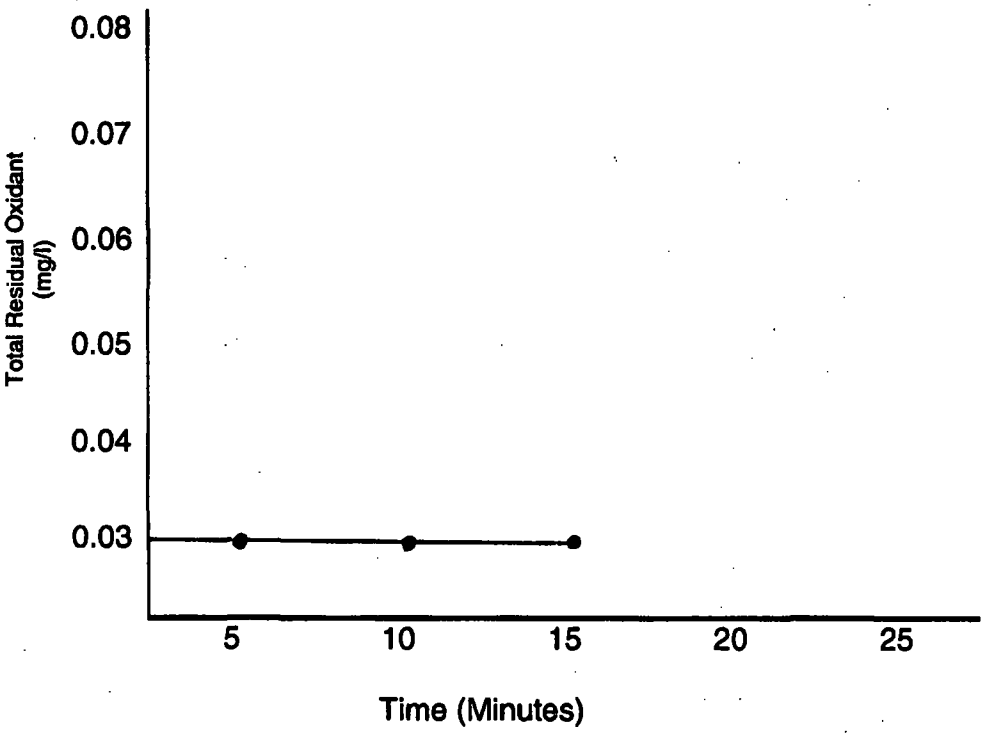
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: February 8, 2010
Time: 1:30 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

February Bromine Usage: 366 lbs. Monthly Average
673 lbs. Daily Maximum.
Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon
Nuclear

April 23, 2010
BW100045

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the March 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	03	01	To:	10	03	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	1.8	2.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	6.0	6.0	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.068	0.114	(03)	———	———	———	—	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	10	04	23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	03	01	To:	10	03	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	2.5	3.7	(26)	———	5.6	9.4	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	———	———	——	7.3	———	7.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	——	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.6	3.1	(26)	———	3.6	8.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.051	0.117	(03)	———	———	———	——	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	——		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 10	MONTH: 04	DAY: 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	03	01	To:	10	03	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	2.5	2.5	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 04	DAY 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharges for the weeks of 3/1, 3/8, 3/15 and 3/29/10.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	03	01	To:	10	03	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	0.6	0.9	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.031	0.042	(03)	———	———	———	———	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	———		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 10	MONTH: 04	DAY: 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	03	01	To:	10	03	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	70.3	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	----	8.60	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	34.53	34.52	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1449	2910	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 04	DAY 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

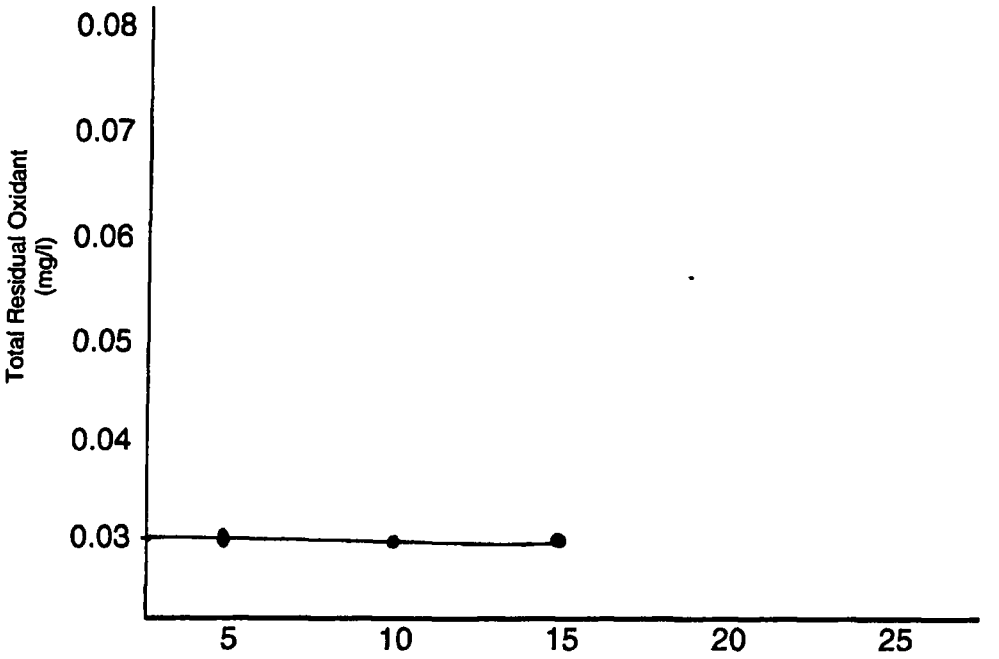
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: March 25, 2010
Time: 1:18 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

March Bromine Usage: 252 lbs. Monthly Average
464 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

May 25, 2010
BW100053

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the April 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	04	01	To:	10	04	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	6.4	17.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	3.8	3.8	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.073	0.127	(03)	-------	-------	-------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	05	25
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	04	01	To:	10	04	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	2.9	7.3	(26)	———	9.5	20.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	———	———	----	7.6	———	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	2.1	5.0	(26)	———	6.5	13.5	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.030	0.076	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	05	25
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	04	01	To:	10	04	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	4.0	4.0	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.9	1.9	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	05	25
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge for the weeks of 4/5, 4/12 and 4/19.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	04	01	To:	10	04	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	0.6	1.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.018	0.035	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	05	25
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY *Braidwood Nuclear Power Station*
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	04	01	To:	10	04	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	74.1	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	-------	-------	----	8.6	-------	8.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	28.39	33.70	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1845	2075	(26)	-------	-------	-------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	-------	-------	-------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager		815	417-2000	10	05	25
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

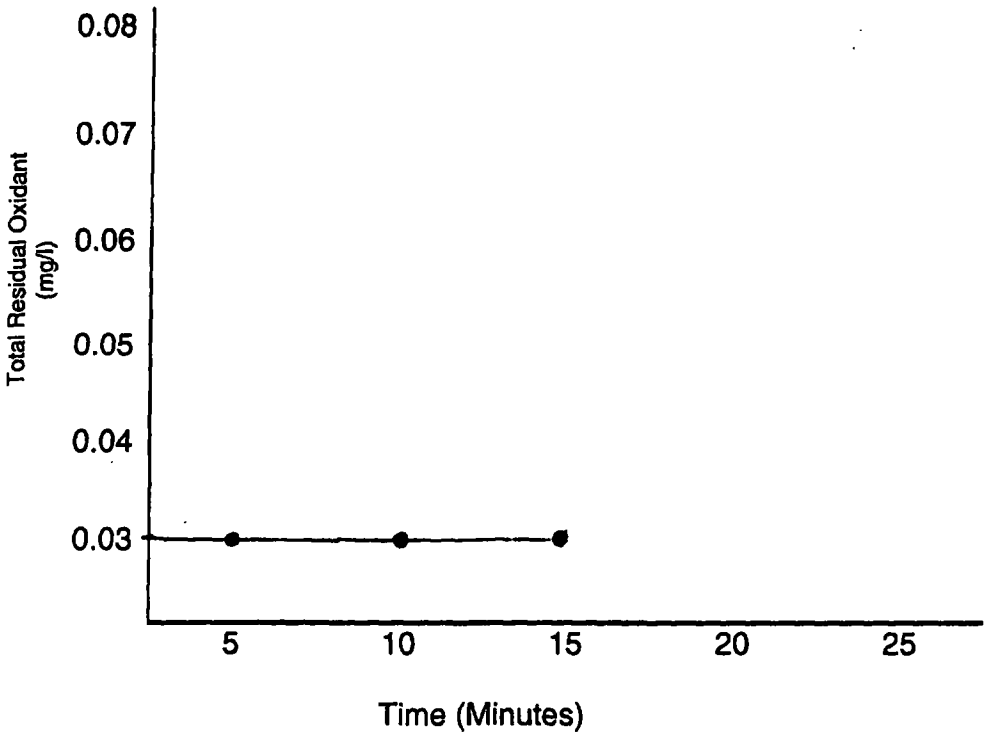
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: April 6, 2010
Time: 1:40 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

March Bromine Usage: 393 lbs. Monthly Average
846 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

June 28, 2010
BW100066

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the May 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	05	01	To:	10	05	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	2.9	3.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	3.2	3.2	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.071	0.095	(03)	---------	---------	---------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	06	28
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	05	01	To:	10	05	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	2.9	3.9	(26)	---------	13.7	16.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.3	---------	7.6	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	-----	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.23	1.7	(26)	---------	3.5	7.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.015	0.035	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	06	28
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge the week of 5/24 and 5/31.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	05	01	To:	10	05	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	0.9	1.8	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	———	———	LBS/DY	———	**15.0 30 DAY AVG**	**30.0 DAILY MAX**	MG/L		**WEEKLY**	**COMPOS**
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	8.9	8.9	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	———	———	LBS/DY	———	**15.0 30 DAY AVG**	**20.0 DAILY MAX**	MG/L		**ONCE/ MONTH**	**GRAB**
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	**REPORT 30 DAY AVG**	**REPORT DAILY MAX**	MGD	———	———	———	-----		**DAILY**	**CONTIN**
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	06	28
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge the weeks of 5/17, 5/24 and 5/31.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station

LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	05	01	To:	10	05	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	0.4	0.5	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	———	———	LBS/DY	———	**15.0 30 DAY AVG**	**30.0 DAILY MAX**	MG/L		**WEEKLY**	**COMP-8**
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.022	0.046	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	**REPORT 30 DAY AVG**	**REPORT DAILY MAX**	MGD	———	———	———	-----		**DAILY**	**CONTIN**
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	10	06	28
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	05	01	To:	10	05	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	91.2	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	———	———	-----	———	———	**REPORT DAILY MAX**	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.6	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	———	———	-----	**6.0 MINIMUM**	———	**9.0 MAXIMUM**	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	———	———	LBS/DY	———	———	**0.05 DAILY MAX**	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	11.94	20.87	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	**REPORT 30 DAY AVG**	**REPORT DAILY MAX**	MGD	———	———	———	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	NA(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	———	———	LBS/DY	———	———	**0.2 DAILY MAX**	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	———	———	-----	———	———	**REPORT DAILY MAX**	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1900	2400	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	**PERMIT REQUIREMENT**	**REPORT MO AVG**	**REPORT DAILY MAX**	LBS/DY	———	———	———	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager		815	417-2000	10	06	28
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

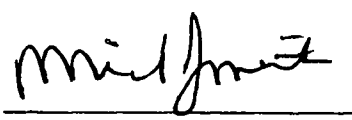
(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

Attachment 2

May 2010 Discharge Monitoring Report

Special Condition 7 of our permit imposes pumping restrictions at the River Screen House during a four week period (last three weeks of May and the first week of June) when pumping will be allowed only during daylight hours. Listed below are the dates and times the make-up pumps were operated during the June 2010 restricted period.

Date	Start Time	Stop Time	# Pumps Operating
5/10/10	9:10 a.m.	5:55 p.m.	2
5/11/10	8:00 a.m.	6:00 p.m.	2
5/12/10	10:00 a.m.	5:40 p.m.	2
5/13/10	N/A	N/A	0
5/14/10	10:30 a.m.	4:50 p.m.	2
5/15/10	9:00 a.m.	5:30 p.m.	3
5/16/10	8:45 a.m.	5:00 p.m.	3
5/17/10	9:50 a.m.	5:50 p.m.	2
5/18/10	9:30 a.m.	6:15 p.m.	2
5/19/10	9:30 am.	5:15 p.m.	2
5/20/10	8:15 a.m.	5:45 p.m.	2
5/21/10	9:25 a.m.	5:02 p.m.	2
5/22/10	9:00 a.m.	5:40 p.m.	2
5/23/10	9:10 a.m.	5:25 p.m.	2
5/24/10	9:50 a.m.	5:15 p.m.	2
5/25/10	N/A	N/A	0
5/26/10	N/A	N/A	0
5/27/10	N/A	N/A	0
5/28/10	N/A	N/A	0
5/29/10	10:40 a.m.	5:50 p.m.	3
5/30/10	10:36 a.m.	6:00 p.m.	2
5/31/10	8:40 a.m.	5:40 p.m.	2



for Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

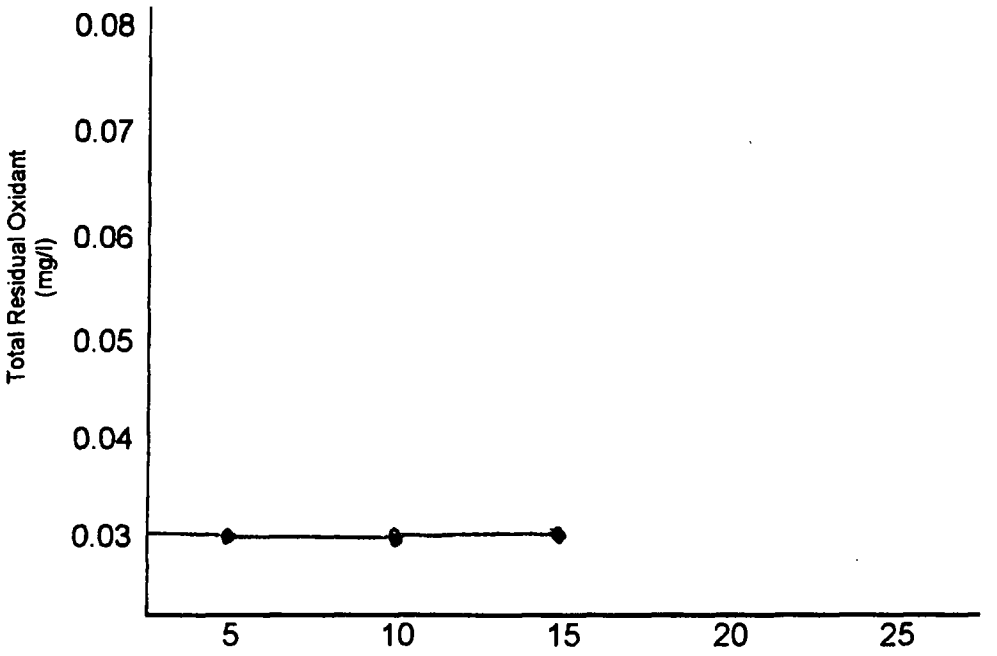
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: May 4, 2010
Time: 1:10 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

May Bromine Usage: 453 lbs. Monthly Average
662 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - <0.03 mg/l

for Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon
Nuclear

July 26, 2010
BW100075

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the June 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	06	01	To:	10	06	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.2	5.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	7.7	7.7	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.074	0.161	(03)	----------	----------	----------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 07	DAY 26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	06	01	To:	10	06	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	4.8	7.1	(26)	-------	13.2	18.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	———	———	----	7.6	———	8.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	2.4	4.4	(26)	———	6.2	8.7	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.037	0.061	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	AREA CODE	NUMBER	YEAR	MONTH	DAY
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	07	26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	06	01	To:	10	06	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.9	2.6	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.9	1.9	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	-------	-------	-------	---	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	10 YEAR	07 MONTH	26 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	06	01	To:	10	06	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	1.6	4.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.061	0.161	(03)	———	———	———	——	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	——		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	07	26
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED							

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	06	01	To:	10	06	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	———	———	----	———	———	91.8	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	----	———	———	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	———	———	----	8.7	———	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	----	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	22.82	35.14	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	———	———	----	———	———	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	----	———	———	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2219	2364	(26)	———	———	———	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	———	———	———	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 07	DAY 26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

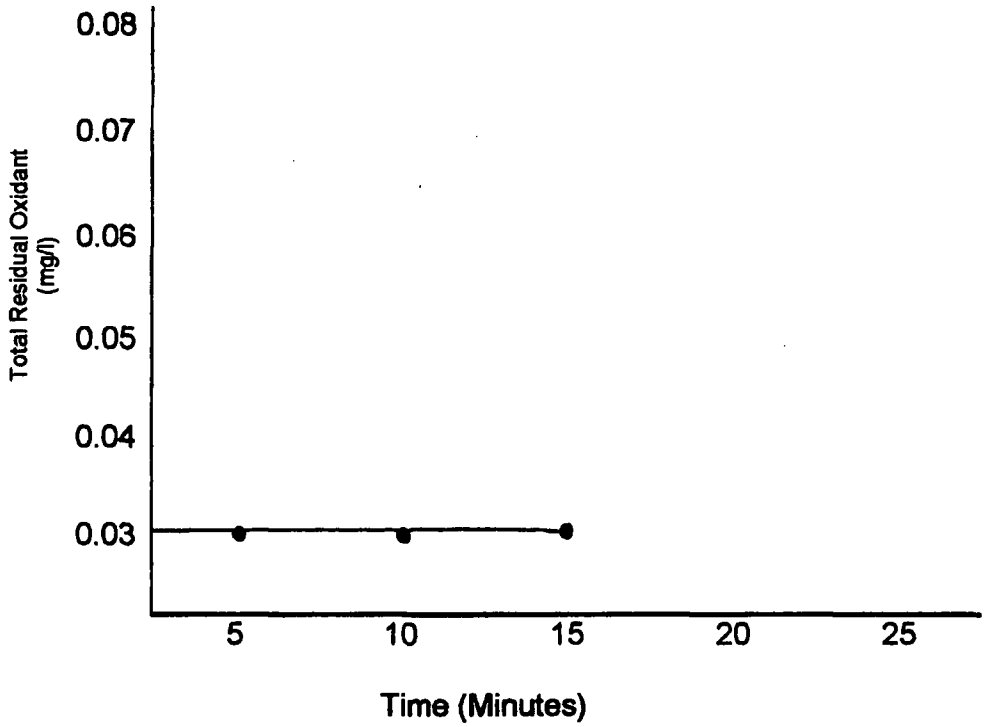
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: June 22, 2010
Time: 1:40 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

June Bromine Usage: 424 lbs. Monthly Average
558 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Attachment 2

June 2010 Discharge Monitoring Report

Special Condition 7 of our permit imposes pumping restrictions at the River Screen House during a four week period (last three weeks of May and the first week of June) when pumping will be allowed only during daylight hours. Listed below are the dates and times the make-up pumps were operated during the June 2010 restricted period.

Date	Start Time	Stop Time	# Pumps Operating
6/1/10	8:35 a.m.	5:15 p.m.	2
6/2/10	8:30 a.m.	5:15 p.m.	3
6/3/10	9:50 a.m.	5:30 p.m.	3
6/4/10	8:50 a.m.	5:50 p.m.	3
6/5/10	8:45 a.m.	5:35 p.m.	3
6/6/10	8:35 a.m.	5:35 p.m.	3

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

August 27, 2010
BW100084

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the July 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	07	01	To:	10	07	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.9	6.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	11.3	11.3	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.071	0.134	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	10 YEAR	08 MONTH	27 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	07	01	To:	10	07	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	2.3	3.5	(26)	----------	11.2	18	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY		30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	-----	7.8	----------	8.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			-----	6.0 MINIMUM		9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.1	1.9	(26)	----------	5.2	7.3	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY		30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.027	0.065	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	AREA CODE: 815	NUMBER: 417-2000	YEAR: 10	MONTH: 08	DAY: 27
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	07	01	To:	10	07	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	--------	0.9	1.4	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	--------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	--------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 08	DAY 27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	07	01	To:	10	07	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	0.8	1.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.082	0.132	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 10	MONTH: 08	DAY: 27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	07	01	To:	10	07	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	94.9	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			-----			REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.7	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			-----	6.0 MINIMUM		9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY			0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	34.76	35.27	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY			0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			-----			REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1529	1740	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY				MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	08	27
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

POOR QUALITY ORIGINAL

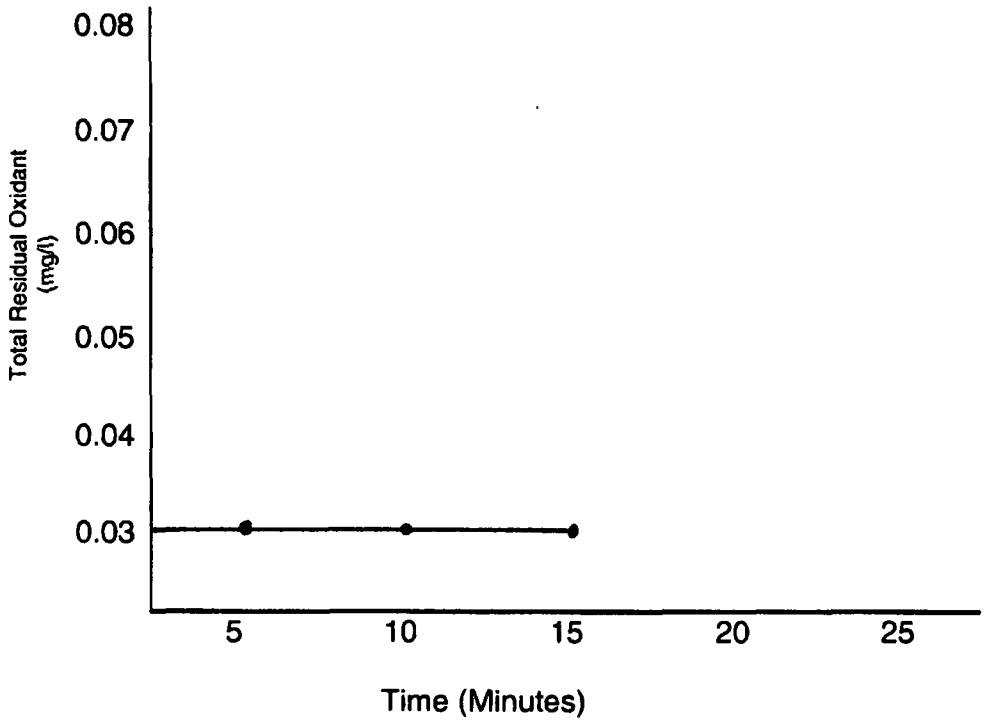
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: July 29, 2010
Time: 11:35 a.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

July Bromine Usage: 295 lbs. Monthly Average
403 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - <0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

POOR QUALITY ORIGINAL

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW100084 Origination Date: 8/25/10

Agency/External Stakeholder: IEPA Submittal Due Date: 8/28/10

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Brwd
(specify)

Preparer: Raymond Hall *(print)* *(sign)* 8/25/10 *(date)*

Peer Reviewer: Tim Meents *(print)* *(sign)* 8/26/10 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☑	8/26/10		8/26/10
Operations	☐			
Engineering	☐			
Regulatory Assurance	☑	8/26/10		8/26/10
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☑	8/27/10	☒ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

September 28, 2010
BW100105

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the August 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	08	01	To:	10	08	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

••• NO DISCHARGE ☐ •••

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	4.3	8.7	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	4.0	4.0	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.060	0.101	(03)	---------	---------	---------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	09	28
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	08	01	To:	10	08	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.13	1.7	(26)	---------	7.4	11	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	----	7.5	---------	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	----	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	0.8	1.3	(26)	---------	4.5	7.3	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.014	0.028	(03)	---------	---------	---------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Lawrence M. Coyle

Plant Manager

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MONTH	DAY
815	417-2000	10	09	28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	08	01	To:	10	08	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.8	3.0	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	-------	1.2	1.2	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 10	MONTH: 09	DAY: 28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge weeks of 8/2, 8/9

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	08	01	To:	10	08	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	0.8	1.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG.	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.068	0.134	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 09	DAY 28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	08	01	To:	10	08	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	97.9	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	-------	-------	----	8.4	-------	8.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	20.21	34.70	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2040	2489	(26)	-------	-------	-------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	-------	-------	-------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 09	DAY 28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

POOR QUALITY ORIGINAL

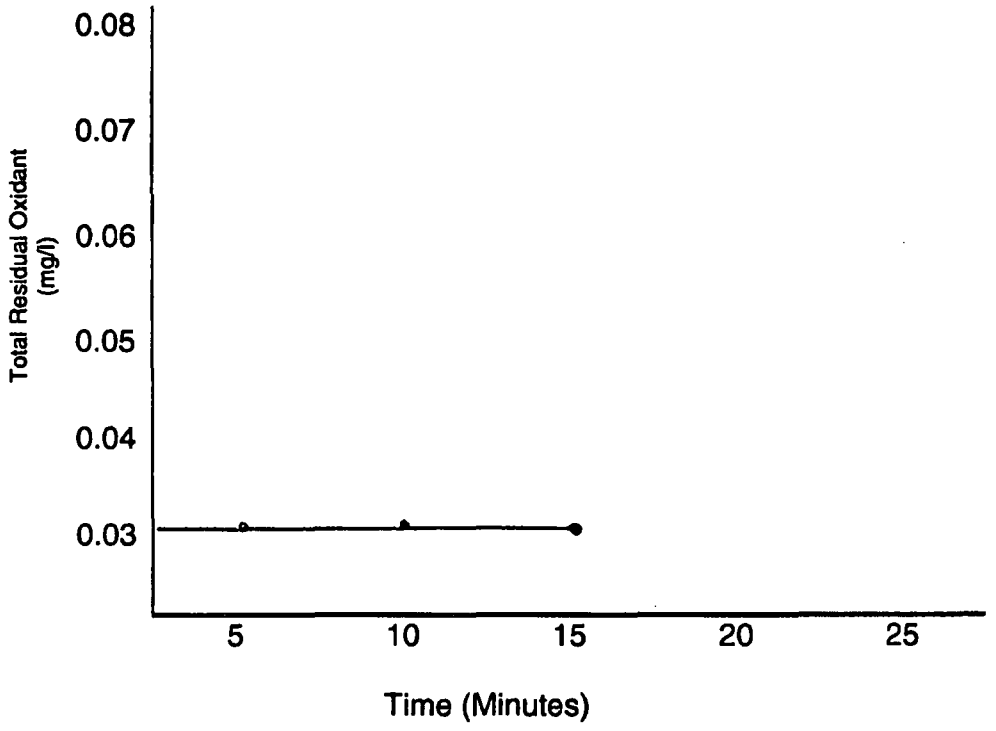
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: August 10, 2010
Time: 1:06 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

August Bromine Usage: 375 lbs. Monthly Average
569 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

October 26, 2010
BW100117

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the September 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	09	01	To:	10	09	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-------	-------	(26)	-------	2.8	4.4	(19)	0	240	DC
	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		1/WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT 00550 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	-------	-------	(26)	-------	5.1	5.1	(19)	0	285	GR
	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.063	0.096	(03)	-------	-------	-------	----	0	135	TM
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	10	26
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	09	01	To:	10	09	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.9	2.3	(26)	-------	10.2	11.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	-------	-------	---	7.2	-------	7.5	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	---	6.0 MINIMUM	---	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.7	2.4	(26)	-------	9.2	12.5	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.019	0.043	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	---	---		---	---	---			---	---
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	---	---		---	---	---			---	---
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	---	---		---	---	---			---	---

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	10 YEAR	10 MONTH	26 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	09	01	To:	10	09	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	2.1	4.6	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	*0.010*	*0.010*	(03)	———	———	———	—	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				—		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	10	26
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 9/20.

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	09	01	To:	10	09	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26) LBS/DY	———	1.7	2.2	(19) MG/L	0	240	DC
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	15.0 30 DAY AVG	30.0 DAILY MAX		[redacted]	WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.046	0.111	(03) MGD	———	———	———	— —	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX		[redacted]	[redacted]	[redacted]		[redacted]	DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	10	10	26
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	09	01	To:	10	09	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	———	———	—	———	———	87.7	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	———	———	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	———	———	—	8.4	———	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	20.73	21.88	(03)	———	———	———	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	———	———	—	———	———	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	———	———	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2027	2307	(26)	———	———	———	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	———	———	———	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815 NUMBER 417-2000	YEAR 10	MONTH 10	DAY 26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Bromine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

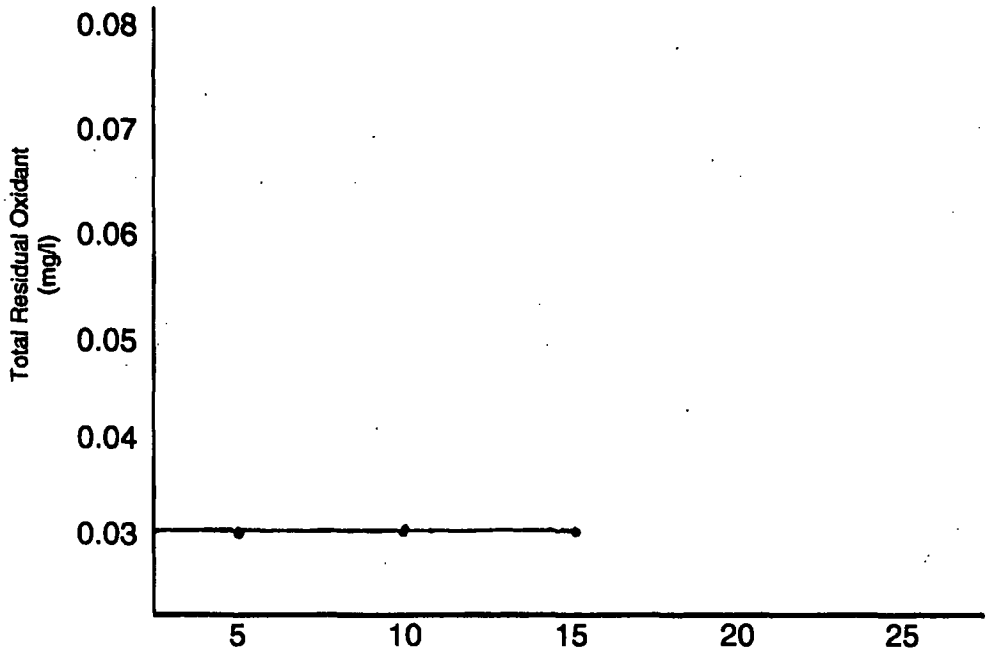
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: September 14, 2010
Time: 1:20 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

September Bromine Usage: 340 lbs. Monthly Average
382 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon
Nuclear

November 23, 2010
BW100128

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the October 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

for Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	10	01	To:	10	10	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	6.6	11.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.5	4.5	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.070	0.103	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 11	DAY 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	10	01	To:	10	10	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	3.3	4.8	(26)	----------	15.0	18.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	-----	7.6	----------	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.3	3.4	(26)	----------	6.5	15.5	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.020	0.059	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	10 YEAR	11 MONTH	23 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	10	01	To:	10	10	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.6	6.8	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.8	1.8	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	------	------	------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 10	MONTH 11	DAY 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 10/25.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	10	01	To:	10	10	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.8	2.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.034	0.035	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	11	23
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED							

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	10	01	To:	10	10	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	79.3	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX.	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.7	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.04	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	20.47	20.74	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX.	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1295	2427	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	10	11	23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used ; Reported as Total Residual Oxidants (Attachment 1)

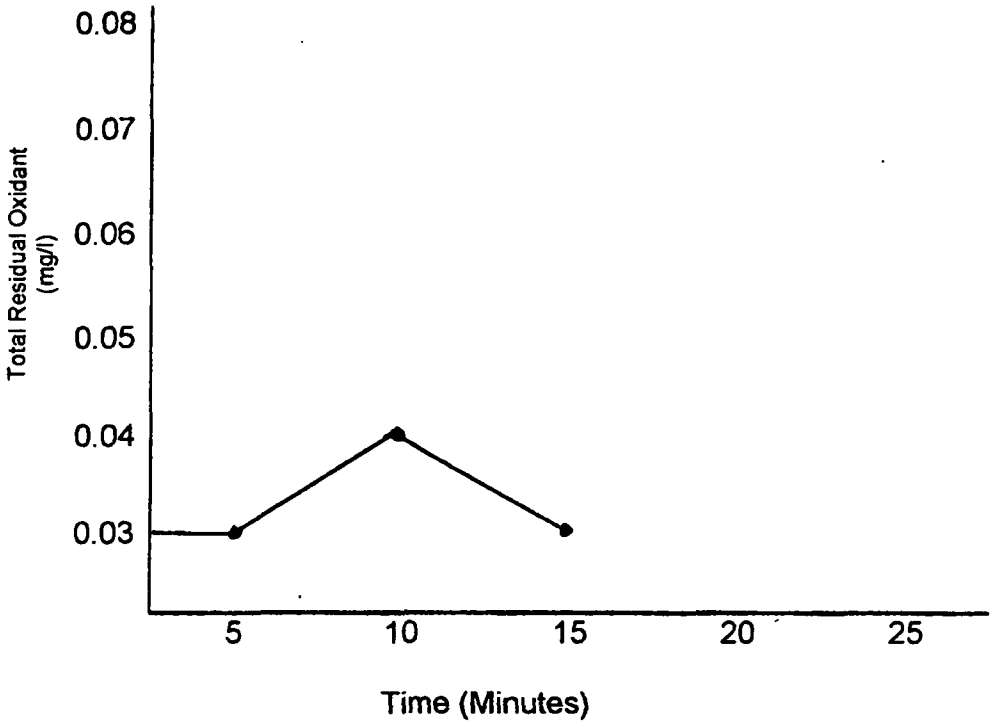
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: October 6, 2010
Time: 1:33 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

October Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.03 mg/l

for Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon
Nuclear

December 22, 2010
BW100152

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the November 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	11	01	To:	10	11	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	4.8	7.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	7.3	7.3	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.061	0.089	(03)	---------	--------	---------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	------	------	------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 10	MONTH: 12	DAY: 22

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	11	01	To:	10	11	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.4	2.2	(26)	---------	13.2	20.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.5	---------	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	----	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.0	1.5	(26)	---------	8.8	14.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.011	0.050	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	10	12	22

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	11	01	To:	10	11	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	N/A	N/A	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	15.0 30 DAY AVG.	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	N/A	N/A	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	N/A	N/A	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	------	------	------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 10	MONTH: 12	DAY: 22

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge month of November.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	11	01	To:	10	11	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	6.15	20.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.035	0.035	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	------	------	------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	12	22
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS

NAME Exelon Generation Co., LLC

ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station

LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	11	01	To:	10	11	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	69.3	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	-----	———	———	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	7.9	----------	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	-----	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	13.87	21.74	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	-----	———	———	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1765	2109	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	———	———	———	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	10	12	22
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

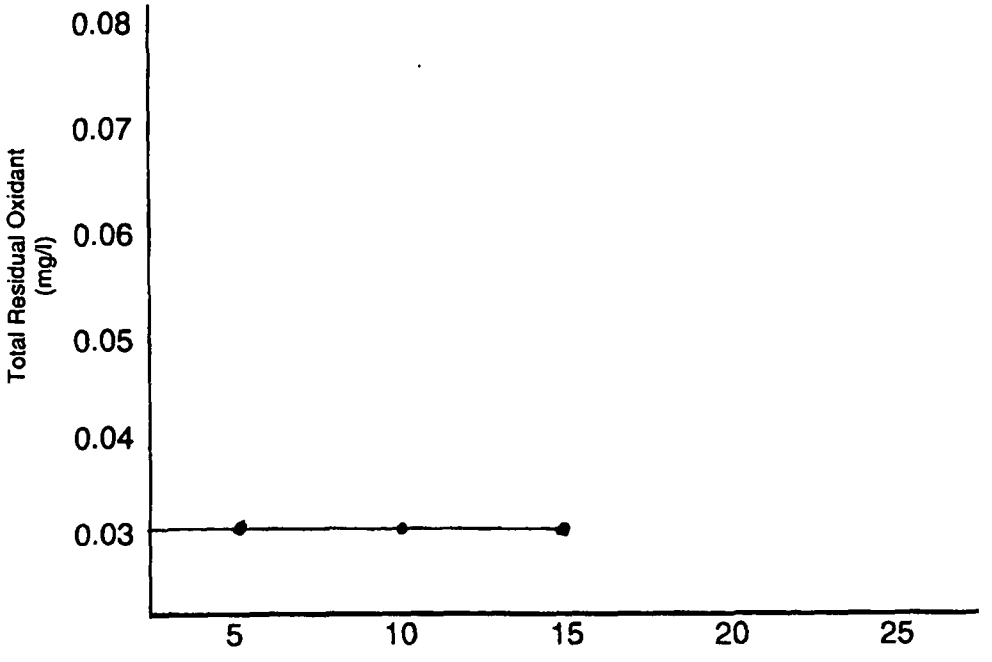
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: November 19, 2010
Time: 1:20 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

November Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon
Nuclear

January 27, 2011
BW110010

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the December 2010 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

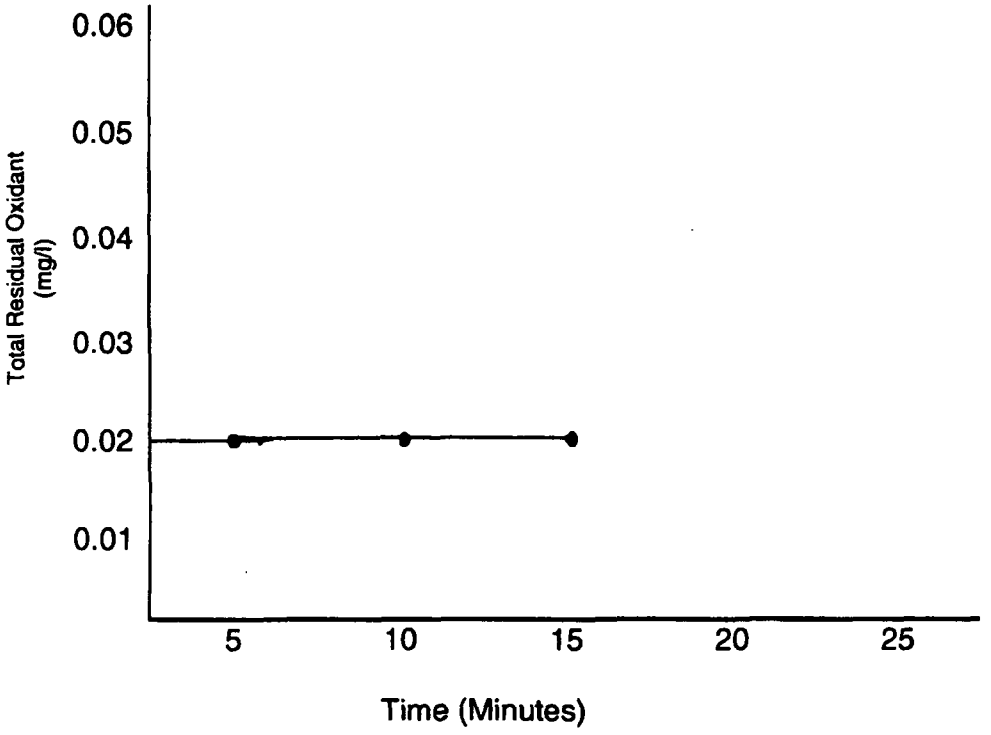
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: December 17, 2010
Time: 1:06 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

December Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.02 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	12	01	To:	10	12	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.5	5.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.2	3.2	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.055	0.083	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 11	MONTH: 01	DAY: 27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	12	01	To:	10	12	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.5	5.1	(26)	---	17.6	51.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---	---	---	7.8	---	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	---	6.0 MINIMUM	---	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	0.6	1.9	(26)	---	9.0	19.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.011	0.062	(03)	---	---	---	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	11 YEAR	01 MONTH	27 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	12	01	To:	10	12	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	4.2	4.3	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	6.6	6.6	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.001	0.001	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	01	27
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge weeks of 12/6/10 and 12/20/10.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	12	01	To:	10	12	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** * * NO DISCHARGE ☐ * * ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.6	2.7	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.048	0.052	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	01	27
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	10	12	01	To:	10	12	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	57.7	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.7	----------	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	13.16	19.87	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1611	1695	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	01	27
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

February 28, 2011
BW110022

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the January 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

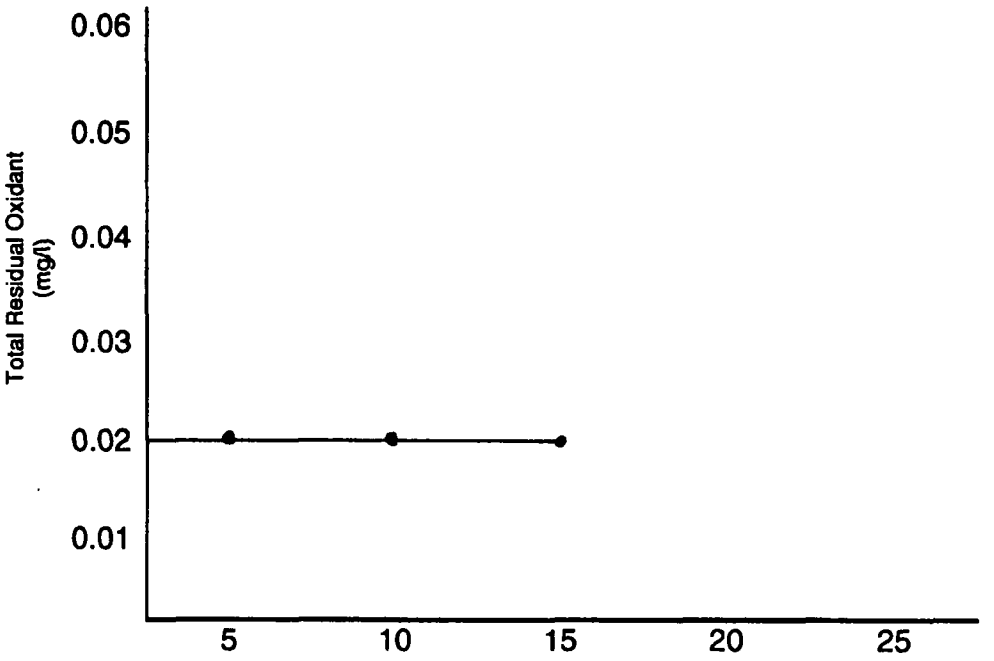
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: January 20, 2011
Time: 1:40 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

January Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.02 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	01	01	To:	11	01	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	5.2	7.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	4.5	4.5	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.057	0.099	(03)	-------	-------	-------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	02	28
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	01	01	To:	11	01	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.6	2.3	(26)	-------	8.5	9.7	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	-------	-------	----	7.5	-------	8.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.1	1.6	(26)	-------	5.4	8.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.020	0.056	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	11	02	28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	01	01	To:	11	01	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	2.0	3.4	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.007	0.010	(03)	---------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	11 YEAR	02 MONTH	28 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 1/3/11.

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	01	01	To:	11	01	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.3	1.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.059	0.079	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	02	28
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev 3/99) **DR** PAGE 1 OF 1

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	01	01	To:	11	01	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	55.1	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	----	8.8	----------	9.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	33.69	35.42	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1570	1779	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	11	02	28
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

POOR QUALITY ORIGINAL

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

March 25, 2011
BW110031

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the February 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	02	01	To:	11	02	28

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	6.4	7.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	[illegible]	[illegible]	LBS/DY	[illegible]	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L	[illegible]	WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	14.5	14.5	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	[illegible]	[illegible]	LBS/DY	[illegible]	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L	[illegible]	ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.069	0.119	(03)	-------	-------	-------	---	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	[illegible]	[illegible]	[illegible]	---	[illegible]	DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]		[illegible]	[illegible]	[illegible]

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	AREA CODE: 815	NUMBER: 417-2000	YEAR: 11	MONTH: 03	DAY: 25
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT					

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

POOR QUALITY ORIGINAL

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	02	01	To:	11	02	28

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	2.1	4.0	(26)	---------	14.0	21.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.4	---------	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	-----	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.2	2.4	(26)	---------	7.7	15	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.013	0.034	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	11	03	25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	02	01	To:	11	02	28

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.2	1.9	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.6	1.6	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	11	03	25
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge weeks of 2/21/11 and 2/28/11.

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	02	01	To:	11	02	28

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.5	4.4	(19)	0	240	DC
	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.040	0.040	(03)	----------	----------	----------	----	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	03	25
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	02	01	To:	11	02	28

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	----	---------	---------	58.4	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			----			REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	---------	---------	----	8.8	---------	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			----	6.0 MINIMUM		9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	---------	---------	(26)	---------	---------	0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY			0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	21.09	33.70	(03)	---------	---------	---------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	---------	---------	(26)	---------	---------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY			0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	---------	---------	----	---------	---------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			----			REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1739	2382	(26)	---------	---------	---------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY				MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 11	MONTH: 03	DAY: 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

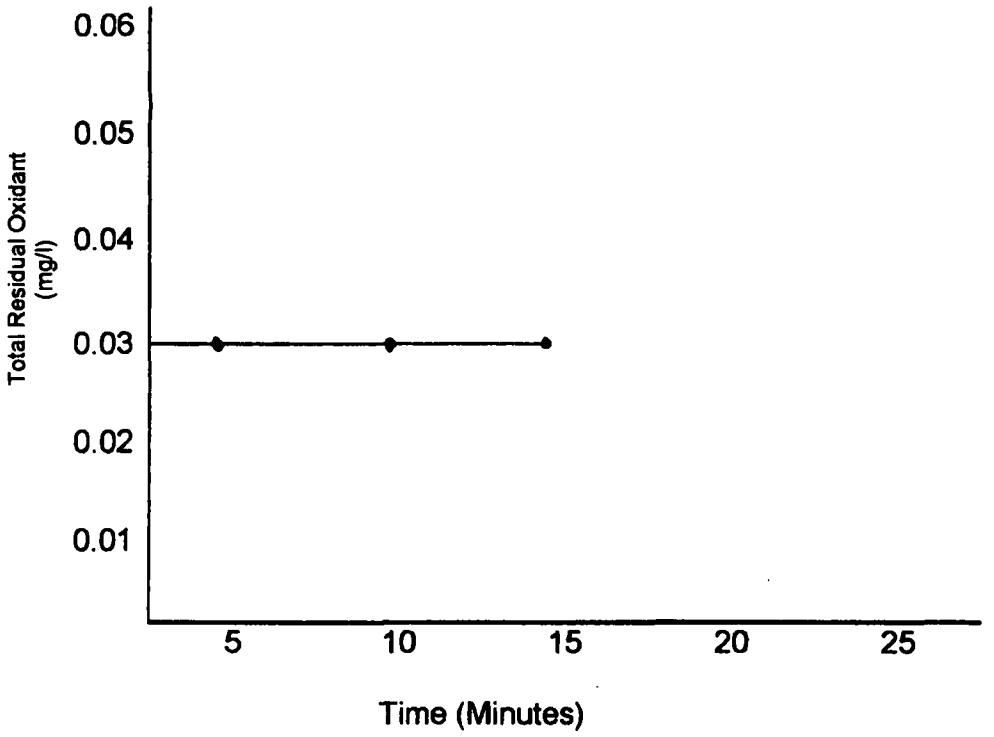
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: February 23, 2011
Time: 1:35 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

February Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.03 mg/l

Lawrence M. Coyle, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

April 26, 2011
BW110042

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the March 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	03	01	To:	11	03	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	2.9	4.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMR24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	3.8	3.8	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.071	0.146	(03)	-------	-------	-------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	---		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	04	26
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	03	01	To:	11	03	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	3.4	7.0	(26)	-------	15.2	27	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	-------	-------	----	7.4	-------	8.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	---	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.1	1.7	(26)	-------	4.3	6.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.028	0.056	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 04	DAY 26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	03	01	To:	11	03	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	0.7	0.9	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 04	DAY 26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge weeks of 3/1/11 and 3/28/11.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	03	01	To:	11	03	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.4	5.3	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.047	0.079	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	11	04	26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	03	01	To:	11	03	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	68.6	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	-------	-------	----	8.7	-------	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	32.35	34.26	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1873	2354	(26)	-------	-------	-------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	-------	-------	-------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	04	26
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

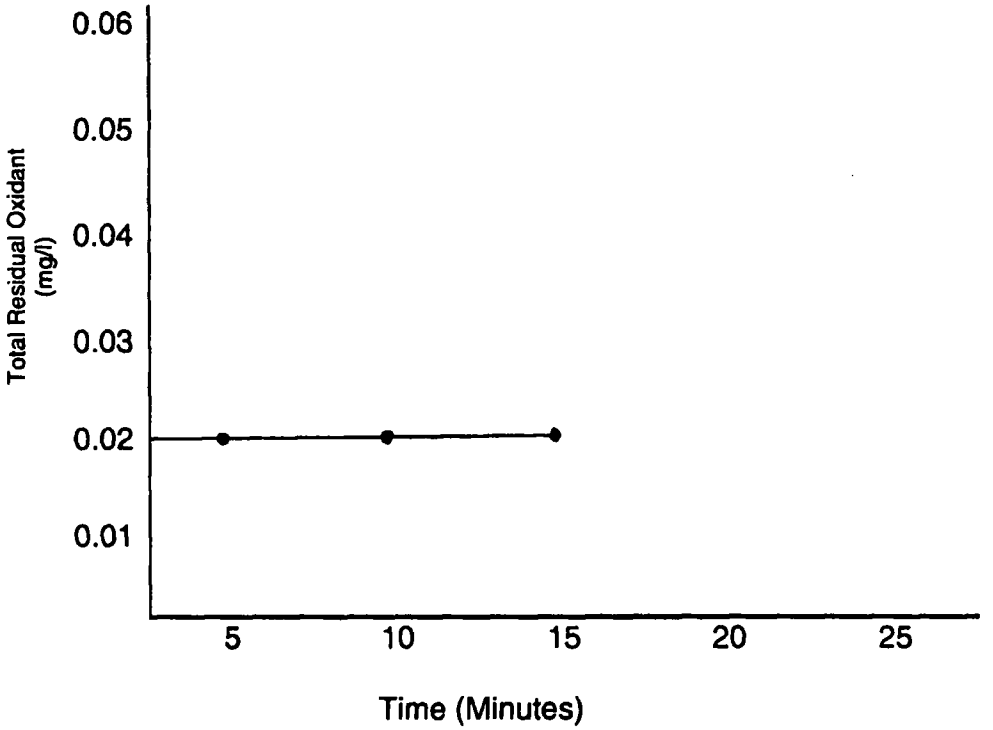
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: March 24, 2011
Time: 12:35 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

March Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.02 mg/l

Mark E. Kanavos, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619
Tel. 815-417-2000

www.exeloncorp.com

Exelon Nuclear

May 27, 2011
BW110055

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the April 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	04	01	To:	11	04	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	6.6	6.9	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	10.3	10.3	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.077	0.128	(03)	----------	----------	----------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	------	------	------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	05	27
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	04	01	To:	11	04	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	7.7	15.4	(26)	-------	36.7*	84.0*	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	-------	-------	---	7.6	-------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	---	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	4.7	8.3	(26)	-------	18.4	45.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.041	0.112	(03)	-------	-------	-------	---	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	-------	-------		-------	-------	-------			-------	-------
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	-------	-------		-------	-------	-------			-------	-------
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	-------	-------		-------	-------	-------			-------	-------

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	05	27
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*BOD, 5-day Daily Maximum and Monthly Average exceeded permit limit. For the month of April 2011, Braidwood Station Sewage Treatment Plant Effluent, outfall 001(b), exceeded the 30 day average concentration limit of 30 mg/L for BOD5. The average concentration value was 36.7 mg/L. The Braidwood Station Sewage Treatment Plant Effluent, outfall 001(b) also exceeded the daily maximum concentration limit of 60 mg/L for BOD5. The daily maximum concentration value for the 4/22/11 sample was 84 mg/L. Following this upset of the sewage treatment system, excess sludge was removed from the system. The activated sludge bed was reseeded with mature sludge from the local municipality and additional temporary sand filters were installed to increase filtration capability. The BOD5 concentration value for the 4/30/11 sample was 47 mg/L which is in compliance with the daily maximum concentration value. Additional BOD5 samples analyzed to date have indicated an improving trend with sample results from 5/4/11 at 26 mg/L, 5/11/11 at 14 mg/L, and 5/18/11 at 13 mg/L.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	04	01	To:	11	04	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.9	3.3	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 11	MONTH: 05	DAY: 27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 4/11/11.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	04	01	To:	11	04	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---------	---------	(26)	---------	2.3	3.2	(19)	0	240	DC
	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.042	0.079	(03)	---------	---------	---------	----	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I *am aware that there are significant penalties for submitting false information, including the possibility* of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 05	DAY 27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	04	01	To:	11	04	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	73.7	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	----	------	------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	----	8.7	----------	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	----	6.0 MINIMUM	------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	26.77	32.83	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	------	------	----------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	LBS/DY	------	------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	------	------	----	------	------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1239	1574	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	------	------	------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	11	05	27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

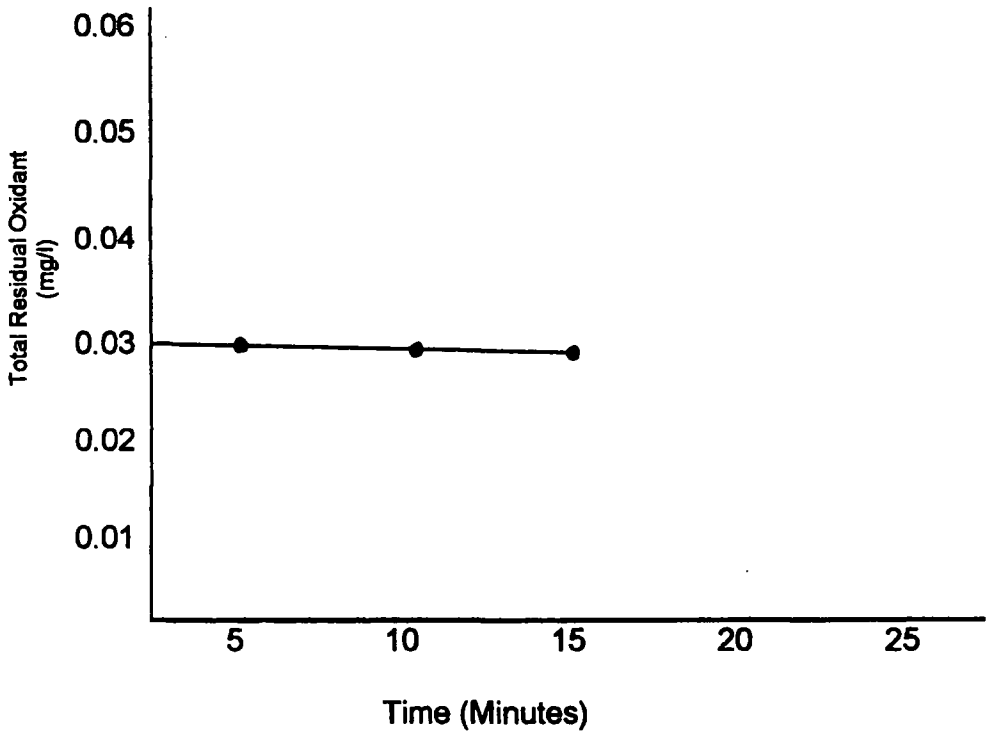
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: April 14, 2011
Time: 11:40 a.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

April Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.03 mg/l

Mark E. Kanavos, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

COPY

June 28, 2011
BW110069

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the May 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

0

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	05	01	To:	11	05	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	4.3	6.0	(19)	0	240	DC
	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP 24
OIL AND GREASE (SOXHLET EXTR.) TOT 00550 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	8.7	8.7	(19)	0	285	GR
	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.061	0.085	(03)	———	———	———	——	0	135	TM
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				——		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	11	06	28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	05	01	To:	11	05	31

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	2.0	4.6	(26)	———	16.2	26.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY		30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP 24
PH	SAMPLE MEASUREMENT	———	———	—	7.8	———	8.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			—	6.0 MINIMUM		9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.0	3.1	(26)	———	7.6	17.5	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY		30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP 24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.014	0.037	(03)	———	———	———	———	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				———		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 06	DAY 28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	05	01	To:	11	05	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	———	———	(26)	———	0.9	2.5	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	———	———	(26)	———	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	———	———	———	—	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				—		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 06	DAY 28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 5/16/11,

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	05	01	To:	11	05	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	9.8	*43.0	(19)	0	240	DC
	PERMIT REQUIREMENT			LBS/DY		15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-S
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.048	0.079	(03)	———	———	———	———	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				———		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 06	DAY 28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*Total Suspended Solids (TSS) Maximum Daily exceeded permit limit. The Braidwood Station Demineralizer Regenerant Waste Effluent, outfall 001(D), exceeded the daily maximum concentration limit of 30 mg/l for TSS. The daily maximum concentration value for the 5/17/11 sample was 43 mg/l. The cause of this exceedence was that the Granular Activated Carbon (GAC) filters backwash water was discharged to the Demineralizer Regenerant Waste Effluent, outfall 001(D) due to a design flaw of the system. The GAC filters backwash water should have been discharged to the Waste Water Treatment Plant for treatment and discharge to the Waste Water Treatment Effluent, outfall 001(A). Following this discharge, the GAC filter backwash flow path to the Demineralizer Regenerant Waste Effluent, outfall 001(D) was eliminated. The current flow path of the GAC filter backwash is to the Waste Water Treatment Plant. Additional Demineralizer Regenerant Waste Effluent TSS samples analyzed yielded results from 5/18/11 at 3.7 mg/L, 5/24/11 at 2.8 mg/L, and 5/31/11 at 2.2 mg/L.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	05	01	To:	11	05	31

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	———	———	---	———	———	80.8	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			---			REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	———	———	---	8.7	———	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			---	6.0 MINIMUM		9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY			0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	14.15	20.15	(03)	———	———	———	---	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD				---		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	NA(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			LBS/DY			0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	———	———	---	———	———	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT			---			REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1794	2435	(26)	———	———	———	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY				MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	11	06	28

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

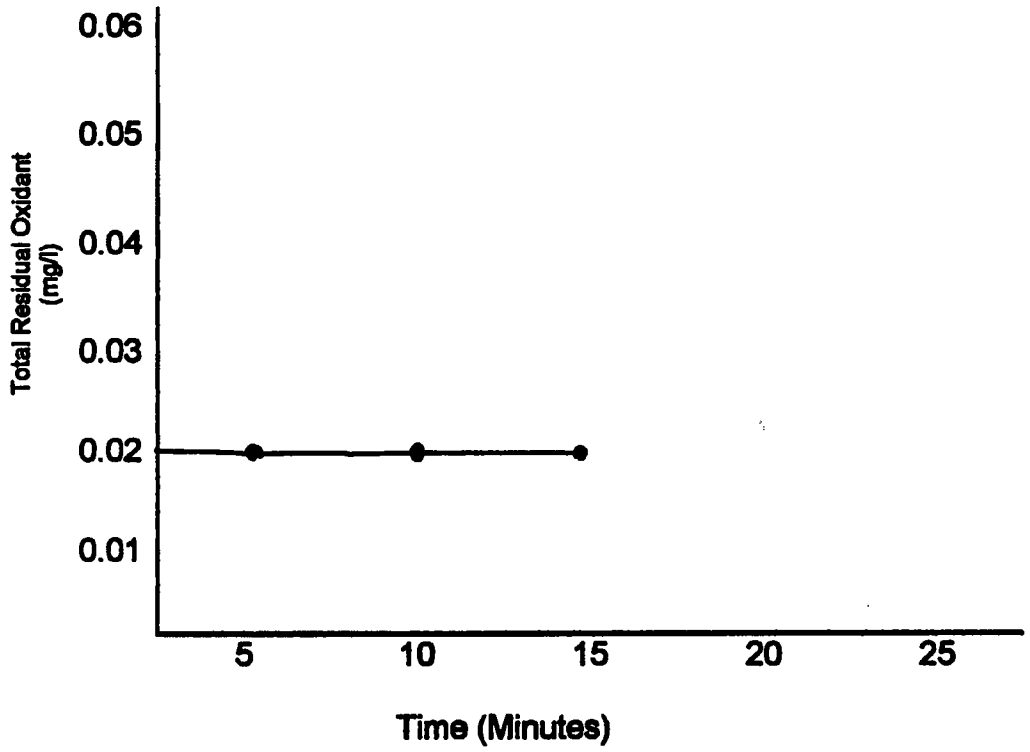
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: May 27, 2011
Time: 2:30 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

May Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.02 mg/l

Mark E. Kanavos, Plant Manager
Braidwood Station

Attachment 2

May 2011 Discharge Monitoring Report

Special Condition 7 of our permit imposes pumping restrictions at the River Screen House during a four week period (last three weeks of May and the first week of June) when pumping will be allowed only during daylight hours. Listed below are the dates and times the make-up pumps were operated during the May 2011 restricted period.

Date	Start Time	Stop Time	# Pumps Operating
5/8/11	10:40 a.m.	5:40 p.m.	3
5/9/11	9:00 a.m.	5:59 p.m.	3
5/10/11	9:00 a.m.	5:30 p.m.	3
5/11/11	9:00 a.m.	5:30 p.m.	3
5/12/11	8:45 a.m.	5:30 p.m.	3
5/13/11	9:20 a.m.	11:20 a.m.	3
5/13/11	1:45 p.m.	5:30 p.m.	3
5/14/11	8:55 a.m.	5:45 p.m.	3
5/15/11	8:48 a.m.	12:00 p.m. (noon)	3
5/16/11	N/A	N/A	0
5/17/11	9:00 a.m.	2:58 p.m.	3
5/18/11	N/A	N/A	0
5/19/11	10:00 a.m.	1:12 p.m.	3
5/20/11	N/A	N/A	0
5/21/11	N/A	N/A	0
5/22/11	8:45 a.m.	5:35 p.m.	3
5/23/11	10:15 a.m.	5:55 p.m.	3
5/24/11	9:10 a.m.	6:00 p.m.	3
5/25/11	7:50 a.m.	5:55 p.m.	3
5/26/11	9:30 a.m.	5:50 p.m.	3
5/27/11	9:00 a.m.	5:45 p.m.	3
5/28/11	8:50 a.m.	5:45 p.m.	3
5/29/11	8:45 a.m.	5:30 p.m.	3
5/30/11	12:00 p.m. (noon)	6:00 p.m.	3
5/31/11	9:15 a.m.	5:45 p.m.	3

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

July 20, 2011
BW110077

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the June 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

0

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	06	01	To:	11	06	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.0	7.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.6	3.6	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.056	0.091	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	07	20
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	06	01	To:	11	06	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.5	3.1	(26)	---------	9.8	16.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.4	---------	7.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	-----	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	0.6	1.6	(26)	---------	3.2	3.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.020	0.051	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	07	20
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	06	01	To:	11	06	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	2.3	6.4	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 07	DAY 20

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	06	01	To:	11	06	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.5	2.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.055	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	07	20
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	06	01	To:	11	06	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	89.6	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.7	----------	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	22.81	32.69	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2384	3008	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	07	20
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

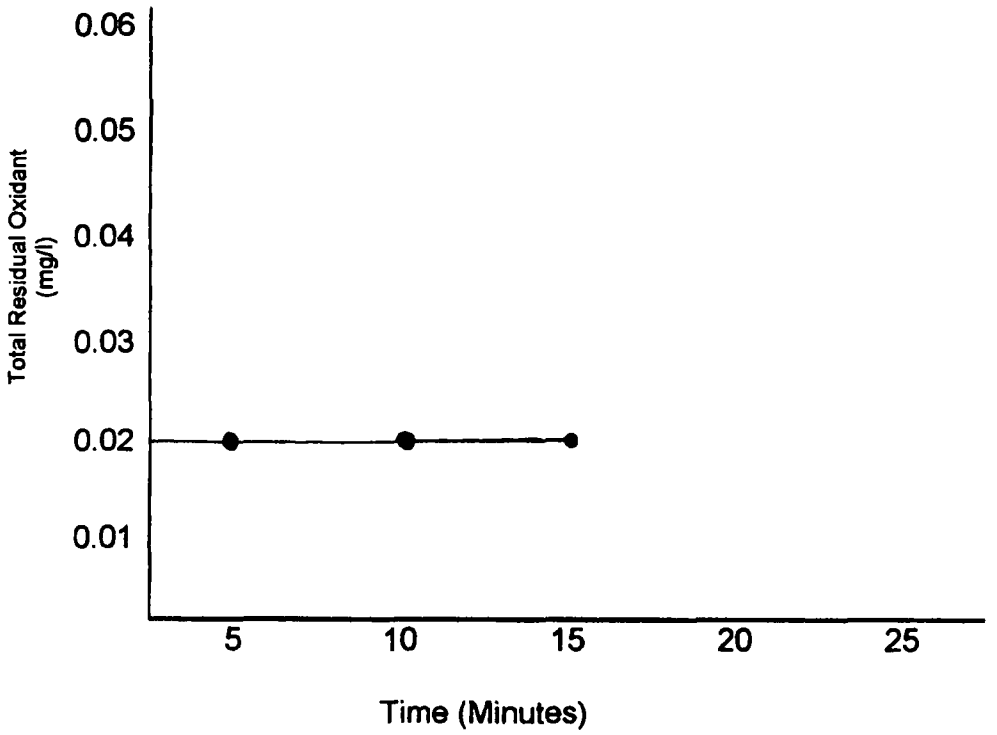
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: June 24, 2011
Time: 1:30 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

June Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.02 mg/l

Mark E. Kanavos, Plant Manager
Braidwood Station

Attachment 2

June 2011 Discharge Monitoring Report

Special Condition 7 of our permit imposes pumping restrictions at the River Screen House during a four week period (last three weeks of May and the first week of June) when pumping will be allowed only during daylight hours. Listed below are the dates and times the make-up pumps were operated during the June 2011 restricted period.

Date	Start Time	Stop Time	# Pumps Operating
6/1/11	9:30 a.m.	5:45 p.m.	3
6/2/11	8:45 a.m.	5:45 p.m.	3
6/3/11	10:30 a.m.	5:45 p.m.	2
6/4/11	11:45 a.m.	5:30 p.m.	2
6/5/11	Shutdown		0

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

August 25, 2011
BW110087

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the July 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	07	01	To:	11	07	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	3.8	5.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.4	4.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.049	0.072	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	08	25
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 7/18/11

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	07	01	To:	11	07	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	0.7	1.1	(26)	---------	6.2	8.9	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.4	---------	8.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	-----	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	0.4	1.0	(26)	---------	4.1	9.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.018	0.094	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	08	25
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	07	01	To:	11	07	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	3.0	3.0	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	08	25
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge weeks of 7/11/11, 7/18/11 and 7/25/11.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	07	01	To:	11	07	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.3	1.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.055	0.079	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 08	DAY 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	07	01	To:	11	07	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	95.9	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.6	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	18.32	24.33	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2885	2954	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 08	DAY 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

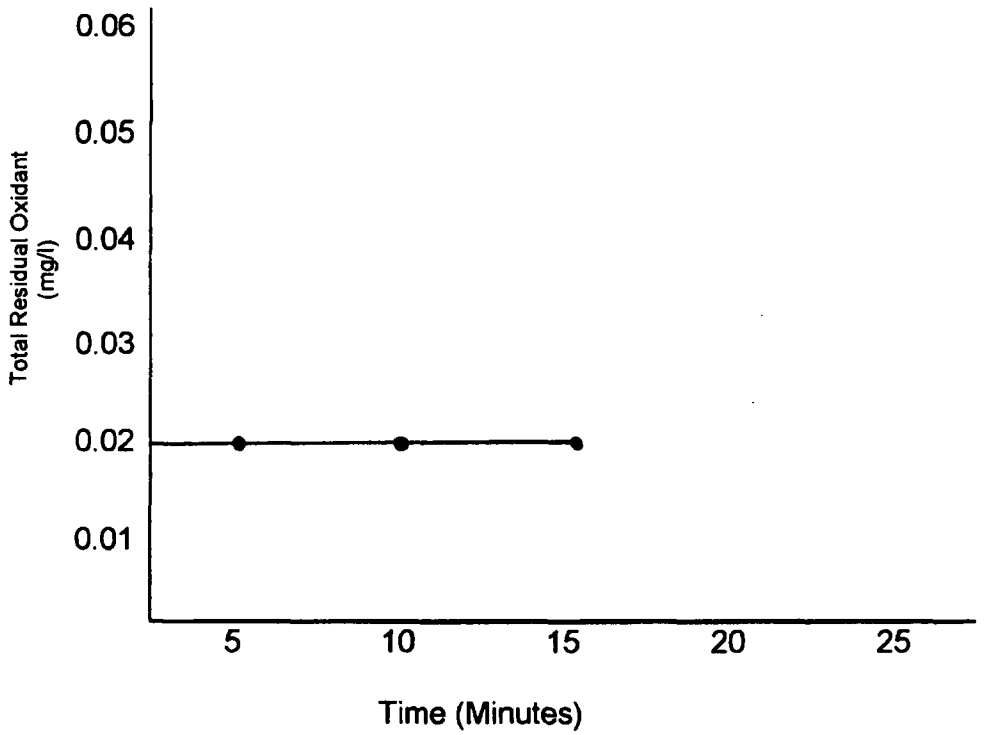
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: July 25, 2011
Time: 1:31 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

July Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.02 mg/l

Mark E. Kanavos, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

September 27, 2011
BW110111

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the August 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	08	01	To:	11	08	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.2	5.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.9	4.9	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.055	0.073	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	09	27
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	08	01	To:	11	08	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	2.1*	2.9*	(26)	---	4.8*	8.2*	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---	---	---	7.4	---	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	---	6.0 MINIMUM	---	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.6	2.5	(26)	---	4.3	7.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.047	0.094	(03)	---	---	---	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	09	27
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

*Sample results from 8/31/11 Sewage Treatment composite sample were not included in the Daily Maximum and monthly average for BOD5. The BOD5 analysis which was completed by an independent certified laboratory on the 8/31/11 composite sample was invalid due to the method blank (unseeded control) and seeded dilution water samples exceeding the recommended depletion limit. BOD5 samples results from the week prior to and following the 8/31/11 sample were <2 mg/l and 2.9 mg/l respectively. Additional information is available upon request.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	08	01	To:	11	08	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.2	2.0	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.009	0.010	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Lawrence M. Coyle

Plant Manager

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MONTH	DAY
815	417-2000	11	09	27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 8/1/11.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	08	01	To:	11	08	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.8	2.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.059	0.079	(03)	----------	---------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 09	DAY 27

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	08	01	To:	11	08	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	96.4	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.8	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	27.15	30.67	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2861	3368	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	09	27
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

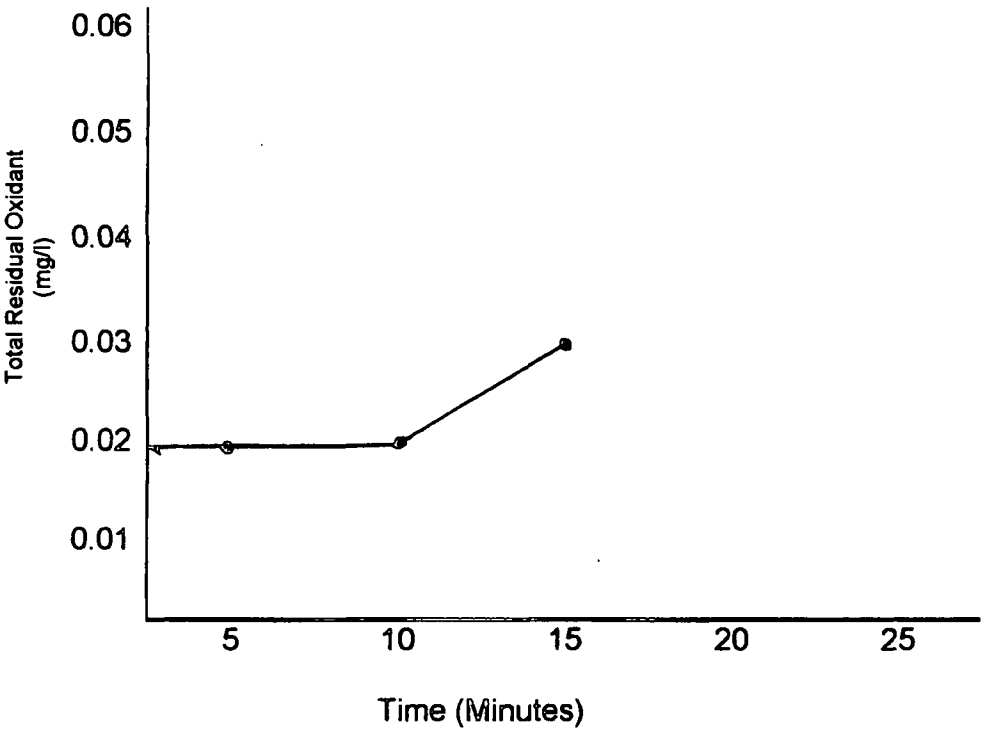
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: August 25, 2011
Time: 12:30 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

August Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.02 mg/l

Mark E. Kanavos, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

October 26, 2011
BW110120

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the September 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	09	01	To:	11	09	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.6	7.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.8	4.8	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.049	0.069	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 10	DAY 26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	09	01	To:	11	09	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	0.7	1.3	(26)	---------	4.3	5.9	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	-----	7.6	----------	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	----	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	0.7	1.1	(26)	---------	4.4	6.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.015	0.040	(03)	---------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	10	26
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	09	01	To:	11	09	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	0.7	1.0	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Lawrence M. Coyle Plant Manager TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 11	MONTH: 10	DAY: 26

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 9/5/11.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	09	01	To:	11	09	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	3.0	4.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.051	0.079	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	11	10	26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	09	01	To:	11	09	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	91.2	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	----	8.6	----------	8.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	17.92	19.72	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2991	3108	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	10	26
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

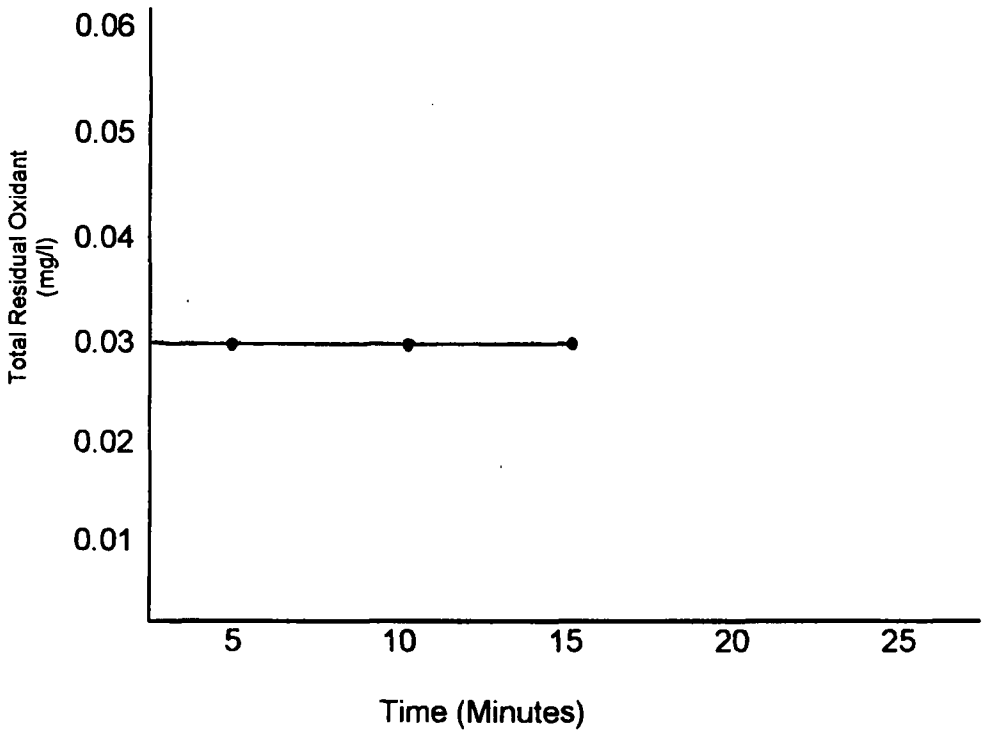
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: September 23, 2011
Time: 1:40 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

September Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.03 mg/l

Mark E. Kanavos, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

November 18, 2011
BW110139

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the October 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	10	01	To:	11	10	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.8	2.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.3	2.3	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.054	0.077	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	11	11	18
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	10	01	To:	11	10	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	0.9	2.0	(26)	---------	8.6	16.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.4	---------	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	---	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	0.6	1.1	(26)	---------	5.7	11.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	-------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.029	(03)	---------	---------	-------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mark E. Kanavos

Plant Manager

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MONTH	DAY
815	417-2000	11	11	18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	10	01	To:	11	10	31

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	0.9	1.2	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	11	11	18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 10/10/11.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	10	01	To:	11	10	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.8	4.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.055	0.079	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 11	DAY 18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	10	01	To:	11	10	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	81.4	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	----	8.6	----------	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	20.23	33.26	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2717	2960	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	11	18
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

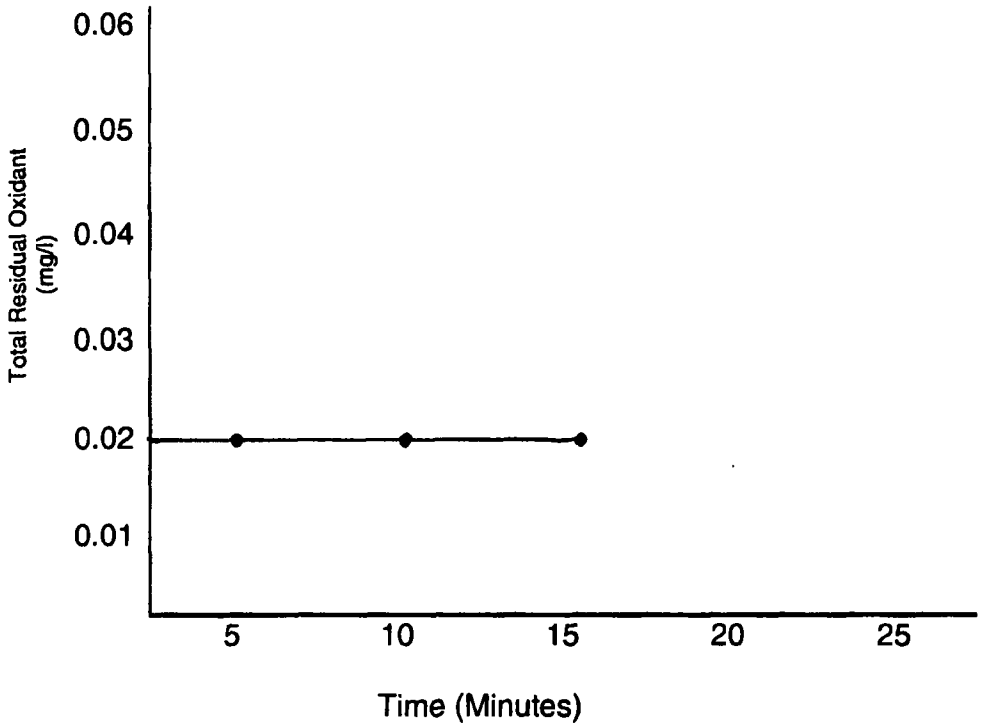
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: October 6, 2011
Time: 3:40 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

October Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.02 mg/l

Mark E. Kanavos, Plant Manager
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

December 22, 2011
BW110145

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the November 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Raymond Hall at (815) 417-3203.

Respectfully,

Daniel J. Enright
Site Vice President
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	11	01	To:	11	11	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.6	3.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	5.4	5.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.059	0.077	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Daniel J. Enright Site Vice President TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 12	DAY 22

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME *Exelon Generation Co., LLC*
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	11	01	To:	11	11	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.1	2.4	(26)	---	4.5	7.3	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG.	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---	---	---	7.1	---	7.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	---	6.0 MINIMUM	---	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.0	2.3	(26)	---	4.6	6.7	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.021	0.074	(03)	---	---	---	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Daniel J. Enright Site Vice President TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 12	DAY 22

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	11	01	To:	11	11	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	0.7	1.0	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Daniel J. Enright Site Vice President TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	11	12	22
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge 10/31/2011 through 11/6/2011.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	11	01	To:	11	11	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	---------	---------	(26)	---------	2.0	3.6	(19)	0	240	DC
	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.052	0.079	(03)	---------	----------	----------	-----	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Daniel J. Enright Site Vice President TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 11	MONTH 12	DAY 22

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	11	01	To:	11	11	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	67.1	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.6	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	22.50	31.68	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2721	2943	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Daniel J. Enright Site Vice President	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fins and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	11	12	22
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

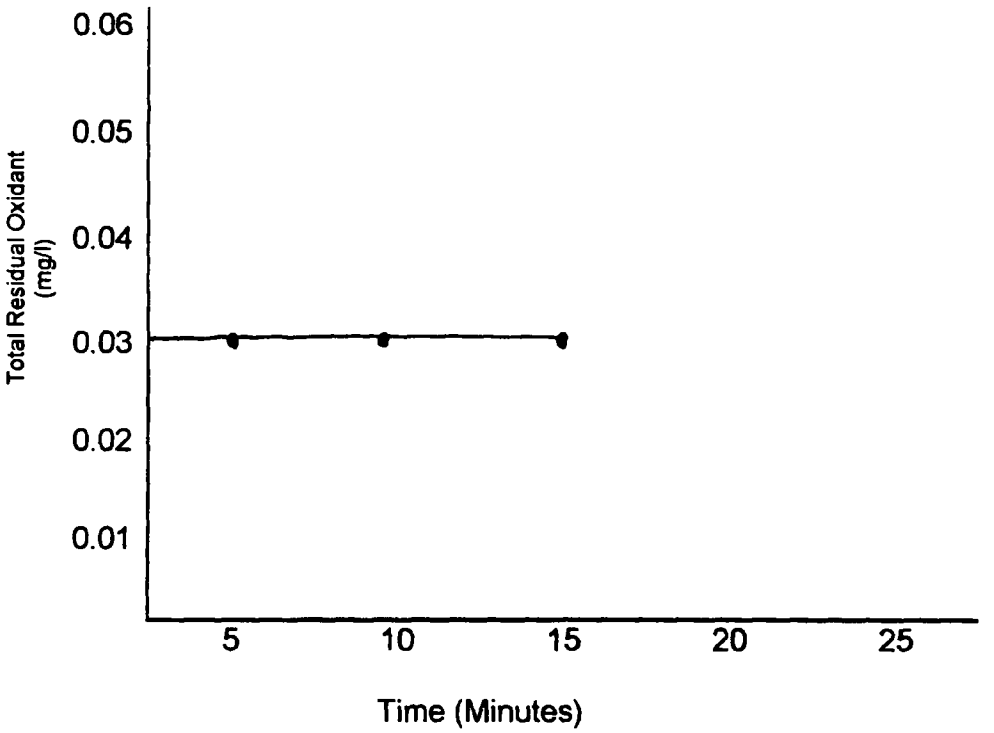
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: November 4, 2011
Time: 1:50 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

November Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.03 mg/l

Daniel J. Enright
Braidwood Station

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

COPY

January 25, 2012
BW120004

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the December 2011 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Whitney Kullman at (815) 417-3257.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

0

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	12	01	To:	11	12	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.6	4.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.9	1.9	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.055	0.077	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	12	01	25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	12	01	To:	11	12	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** * * NO DISCHARGE ☐ * * ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	3.2	4.8	(26)	---------	9.2	13.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.0	---------	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	-----	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	3.5	4.7	(26)	---------	11.4	19.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.045	0.061	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	12	01	25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	12	01	To:	11	12	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.1	1.4	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.013	0.026	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	12	01	25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 12/12/11.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	12	01	To:	11	12	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.9	4.3	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.051	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, *the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.* I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	01	25
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	11	12	01	To:	11	12	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	60.7*	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.6	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	31.43	32.10	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2709	2754	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED			815	417-2000	12	01	25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

* Primary temperature probe for obtaining temperature parameter was out of service for the duration of the month. Reported temperature was obtained from the back-up temperature probe.
(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

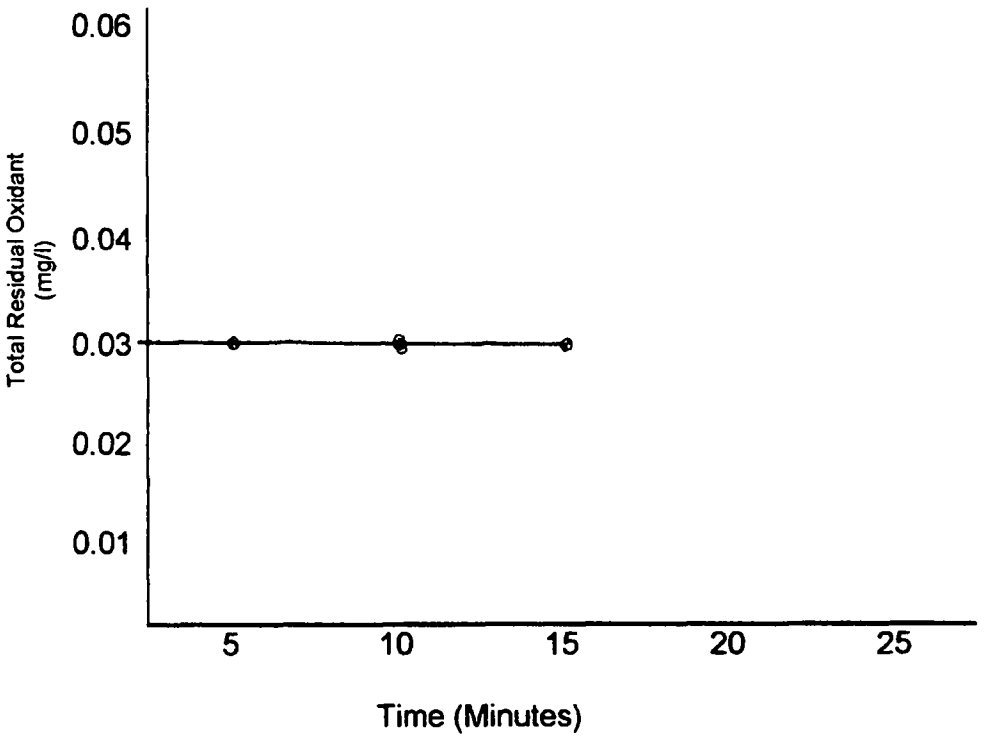
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: December 28, 2011
Time: 1:20 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

December Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.03 mg/l

Mark E. Kanavos
Braidwood Station

RECEIVED
FEB 23 2012
By

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW120016 Origination Date: 2/17/12

Agency/External Stakeholder: IEPA Submittal Due Date: 2/28/12

Recipient of Correspondence: IEPA- Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: Whitney Kullmen *(print)* Whitney Kull *(sign)* 2/20/12 *(date)*

Peer Reviewer: Christina Xydis *(print)* Christina Xydis *(sign)* 2/20/12 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☐ No

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	2/23/12	Jami Rupcich	2/20/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	2/23/12	☒ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

February 23, 2012
BW120016

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the January 2012 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Whitney Kullman at (815) 417-3257.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	01	01	To:	12	01	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	3.9	6.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	9.1	9.1	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.072	0.102	(03)	---------	---------	---------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 02	DAY 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	01	01	To:	12	01	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	7.3	9.3	(26)	----------	13.4	20.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	-----	7.4	----------	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	6.0	13.0	(26)	----------	7.8	10.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.064	0.172	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	02	23
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	01	01	To:	12	01	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.3	2.4	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.014	0.025	(03)	-------	-------	-------	---	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	02	23
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge weeks of 1/2/12, 1/9/12 and 1/16/12

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	01	01	To:	12	01	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.2	4.9	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.048	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mark E. Kanavos

Plant Manager

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE AREA CODE	TELEPHONE NUMBER	DATE YEAR	DATE MONTH	DATE DAY
815	417-2000	12	02	23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	01	01	To:	12	01	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	58.5	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	----	8.7	----------	9.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	30.20	33.26	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2021	2561	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	815	417-2000	12	02	23
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

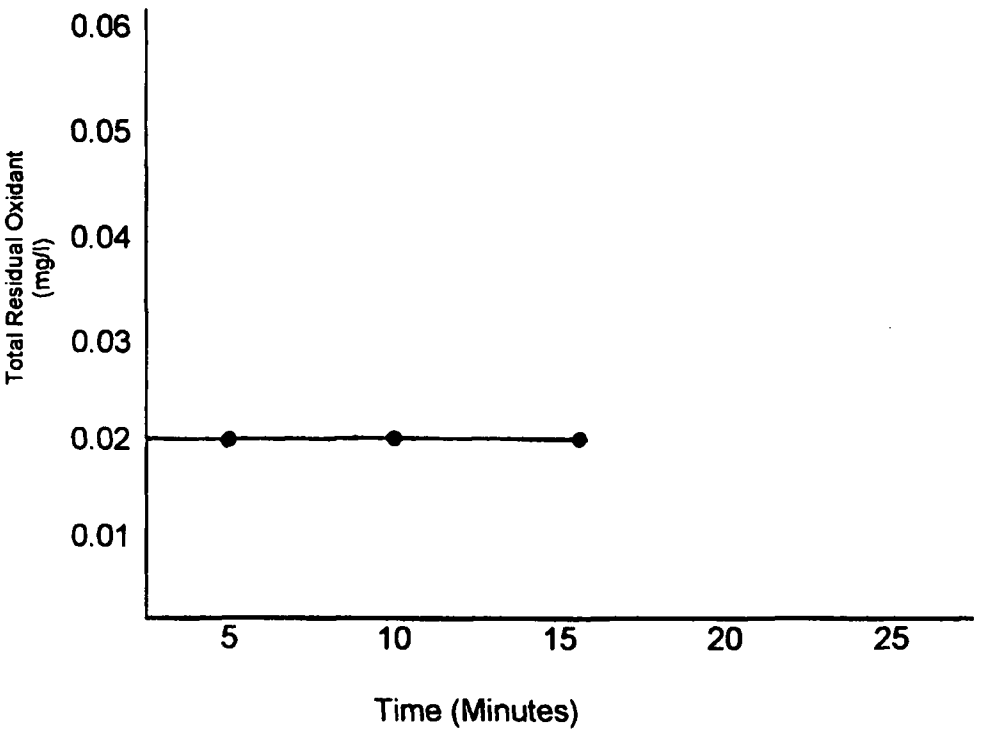
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: January 12, 2012
Time: 12:49 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

January Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - 0.02 mg/l

Mark E. Kanavos
Braidwood Station

Attachment 2
Example Verification Completion Form
Page 1 of 1

RECEIVED
MAR 23 2012
By

Verification Documentation

Correspondence/Letter number: BW12 0026 Origination Date: 3/19/2012

Agency/External Stakeholder: IEPA Submittal Due Date: 3/28/2012

Recipient of Correspondence: IEPA- Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: Whitney Kullman *(print)* Whitney Kullman *(sign)* 3/19/2012 *(date)*

Peer Reviewer: Phillip Schutz *(print)* *(sign)* 3/21/12 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☐ No

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☑	3/23/2012		3/21/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☑	3/23/2012	☐ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

MARK. NOTE THE RIVER INTAKE TEMP IS NOT REQUIRED TO BE REPORT!

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

March 23, 2012
BW120026

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the February 2012 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact Whitney Kullman at (815) 417-3257.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	02	01	To:	12	02	29

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.2	5.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	5.2	5.2	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.070	0.103	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 03	DAY 23

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	02	01	To:	12	02	29

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	5.8	12.0	(26)	---------	10.3	15.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.7	---------	7.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	----	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	2.0	3.2	(26)	---------	3.6	4.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.047	0.107	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	03	23
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	02	01	To:	12	02	29

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	0.8	1.0	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.021	0.024	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	03	23
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

No discharge week of 2/27/12.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	02	01	To:	12	02	29

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.6	4.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.049	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
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TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	02	01	To:	12	02	29

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	60.1	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.9	----------	9.1*	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	< 0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	32.26	33.12	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2053	2364	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)
*Maximum pH of 9.11 indicates algae bloom. Algae bloom was confirmed with a vendor sample and analysis which yielded a rise in chlorophyll-A.

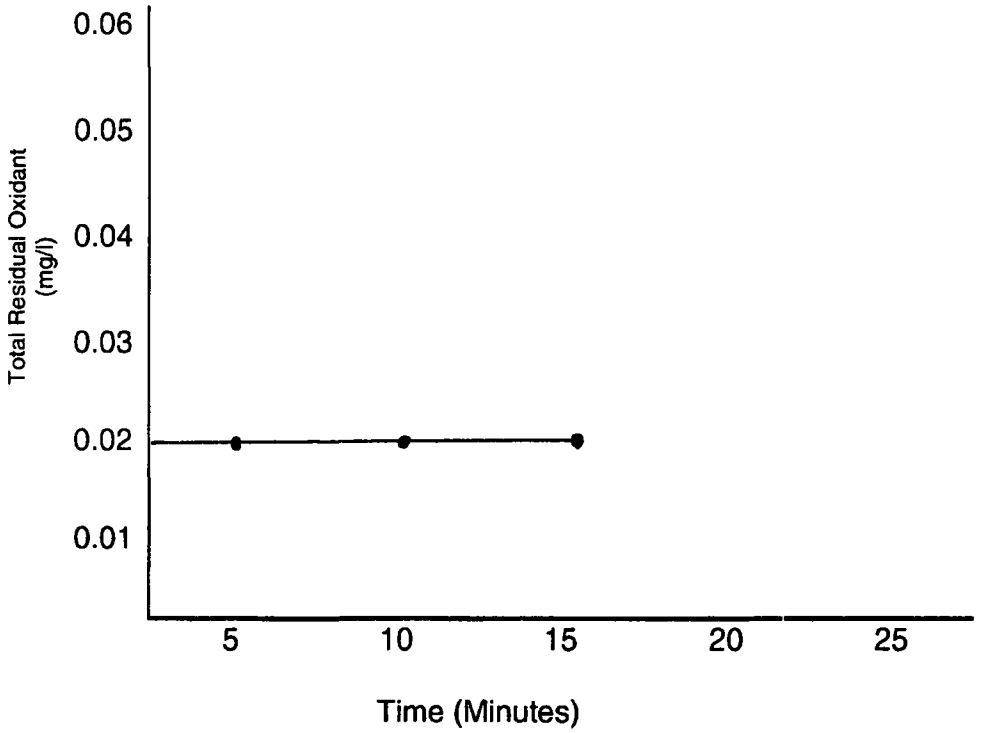
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: February 12, 2012
Time: 11:50 a.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

February Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - < 0.02 mg/l

Mark E. Kanavos
Braidwood Station

RECEIVED
APR 25 2012
By

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW120038 Origination Date: 4/20/2012

Agency/External Stakeholder: IEPA Submittal Due Date: 4/28/2012

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: Whitney Kullman *(print)* Whitney Kullman *(sign)* 4/23/2012 *(date)*

Peer Reviewer: PHILLIP SCHULTZ *(print)* Phillip Schultz *(sign)* 4/23/12 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No Fedex

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☑	4/25/2012		4/23/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☑	4/25/2012	☑ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

April 25, 2012
BW120038

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report, Braidwood Nuclear Power Station
NPDES No. IL 0048321

Attached please find the discharge monitoring report (DMR) for the above-referenced permit for the month of March 2012. In accordance with NPDES No. IL0048321, Exelon is providing notification regarding the thermal-related NPDES conditions found in Special Condition 3 for outfall 001 – Cooling Pond Blowdown. Special Condition 3 provides that during the month of March, the water temperature at points beyond the mixing zone shall not exceed 60° F for more than one percent of the hours (excursion hours) in the 12-month period ending with any month (87.6 hours annually) and that at no time shall the water temperature at such location exceed 63° F.

On March 19, 2012 at approximately 02:00, the river intake temperature probes indicated water temperatures at the Kankakee River circulating water intake exceeding 60° F due to extreme, record-breaking warm weather. Immediately following, river temperatures exceeded the 63° F maximum temperature limit. Upstream river temperatures continued to climb and reached 67° at 15:00 on March 19. On March 19, 2012, when Braidwood Station realized that river temperatures exceeded the 63° F limit, Exelon contacted the Illinois EPA to request a provisional variance from the excursion hour and maximum temperature limits. Cooling pond blowdown was secured at approximately 03:00 on March 20, 2012. Illinois EPA granted a provisional variance on March 22, 2012 effective March 21, 2012. The station resumed cooling pond blowdown on March 23, 2012.

Further investigation, which included review of the downstream City of Wilmington river temperature data, during the period between March 15 and March 19, clarified that intake river water temperatures rose with the extreme, record-breaking warm weather. This additional information indicates that Braidwood Station may have used up to 111 excursion hours which exceeds the allotted 87.6 excursion hours prior to securing cooling pond blowdown. Braidwood Station is currently in compliance with NPDES No. IL0048321. If you have any questions, please contact Whitney Kullman at (815) 417-3257.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	03	01	To:	12	03	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.3	5.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.9	1.9	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.070	0.106	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	12	04	25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	03	01	To:	12	03	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	7.2	9.6	(26)	----------	12.5	17.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	-----	7.8	----------	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	2.2	4.0	(26)	----------	3.6	5.5	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.051	0.099	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 04	DAY 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	03	01	To:	12	03	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	0.8	1.2	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.1	1.1	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.012	0.016	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
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			815	417-2000	12	04	25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	03	01	To:	12	03	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.0	6.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.050	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	03	01	To:	12	03	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	78.9*	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	----	8.4	----------	8.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	<0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	28.37	32.68	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2168	2757	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
		815	417-2000	12	04	25

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)
*Note the Effluent temperature, 78.9 degrees F, is Cooling Pond Blowdown temperature.
*See NPDES Permit IL 0048321 Spection Condition 3.

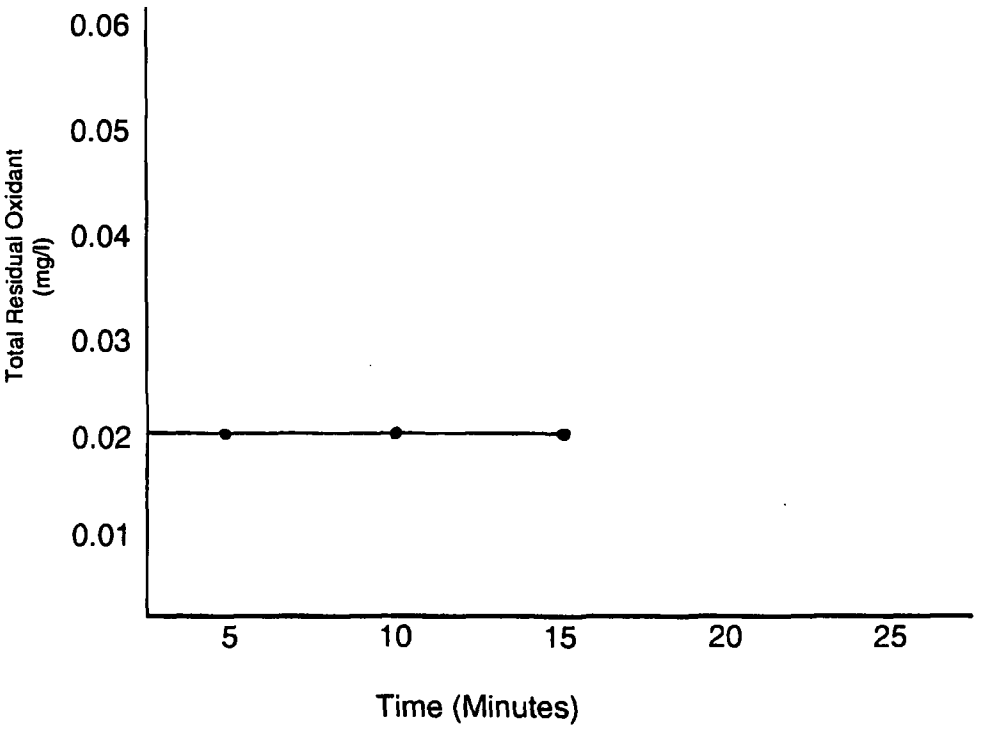
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: March 26, 2012
Time: 12:35 a.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

March Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - < 0.02 mg/l

Mark E. Kanavos
Braidwood Station

RECEIVED
MAY 15 2012
By

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW 120049 Origination Date: 5/10/12

Agency/External Stakeholder: IEPA Submittal Due Date: 5/28/12

Recipient of Correspondence: IEPA - Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: J. Paul Georgiou *(print)* *(sign)* 5/10/12 *(date)*

Peer Reviewer: Christina Xydis *(print)* *(sign)* 5/11/12 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	5-11-12		5/11/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	5-14-12	☐ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

May 14, 2012
BW120049

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the April 2012 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact J. Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	04	01	To:	12	04	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.8	3.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30-DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.3	3.3	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.067	0.096	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	05	14
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	04	01	To:	12	04	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	2.6	3.8	(26)	---------	13.6	23.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.3	---------	7.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	----	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.0	2.3	(26)	---------	5.9	14.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.026	0.066	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mark E. Kanavos
Plant Manager
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MONTH	DAY
815	417-2000	12	05	14

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	04	01	To:	12	04	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	0.9	1.2	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mark E. Kanavos

Plant Manager

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
815	417-2000	12	05	14
AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	04	01	To:	12	04	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.1	8.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.052	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	05	14
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	04	01	To:	12	04	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT **00011 1 0 0** EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	72.4	(15)	0	135	CN
	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH **00400 1 0 0** EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	----------	----------	-----	8.7	----------	8.8	(12)	0	240	GR
	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL **34044 1 0 1** EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.02	(19)	0	285	GR
	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT **50050 1 0 0** EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	22.82	30.82	(03)	----------	----------	----------	-----	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL **50060 1 0 0** EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION **78739 1 0 0** EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE **81400 1 0 0** EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1637	2342	(26)	----------	----------	----------	(19)	0	135	MS
	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED			815	417-2000	12	05	14

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

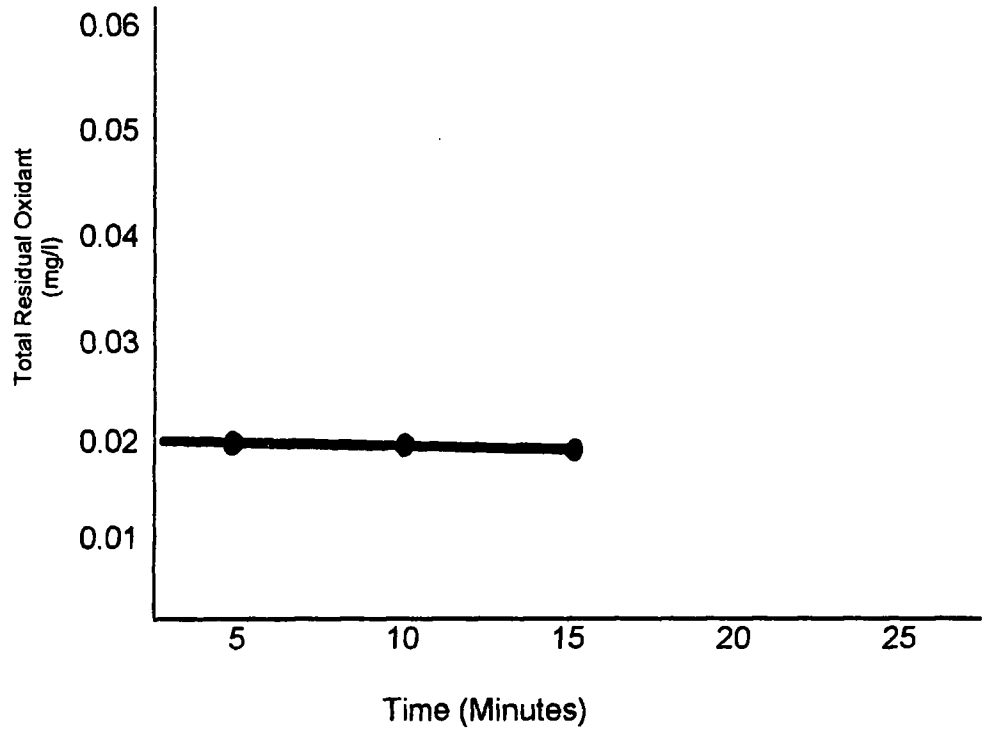
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: April 12, 2012
Time: 13:45 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

April Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - < 0.02 mg/l

Mark E. Kanavos
Braidwood Station

COPY

#63

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW120063 Origination Date: 6/21/12

Agency/External Stakeholder: IEPA Submittal Due Date: 6/25/12

Recipient of Correspondence: IEPA' Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: John Paul Livingston *(print)* *(sign)* 6/22/12 *(date)*

Peer Reviewer: Christina Xydis *(print)* Christina Xydis *(sign)* 6/22/12 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☐ No

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	6/22/12		6/22/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	6/25/12	☐ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

RECEIVED
AUG 10 2012
By_____

JH.103

Exelon Generation®

Mark E. Kanavos
Plant Manager
Braidwood Nuclear Power Station

Telephone 815.417.3700
Fax 815.417.3014
mark.kanavos@exeloncorp.com

35100 South Route 53
Braceville, IL 60407

June 25, 2012
BW120063

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the May 2012 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

jpg/lm
Enclosure

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	05	01	To:	12	05	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	5.2	6.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	6.3	6.3	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.069	0.087	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 06	DAY 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME *Exelon Generation Co., LLC*
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	05	01	To:	12	05	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	2.5	5.5	(26)	---	13.9	27.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---	---	-----	7.7	---	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	-----	6.0 MINIMUM	---	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.1	2.5	(26)	---	5.7	8.7	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.018	0.035	(03)	---	---	---	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 12	MONTH: 06	DAY: 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	05	01	To:	12	05	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	0.9	2.0	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.016	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 06	DAY 25

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	05	01	To:	12	05	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.5	7.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.058	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, *the information submitted is, to the best of my knowledge and belief, true, accurate, and complete.* I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	06	25
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	05	01	To:	12	05	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	82.6	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.6	----------	8.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	< 0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	19.44	20.87	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1865	2072	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED		815	417-2000	12	06	25

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

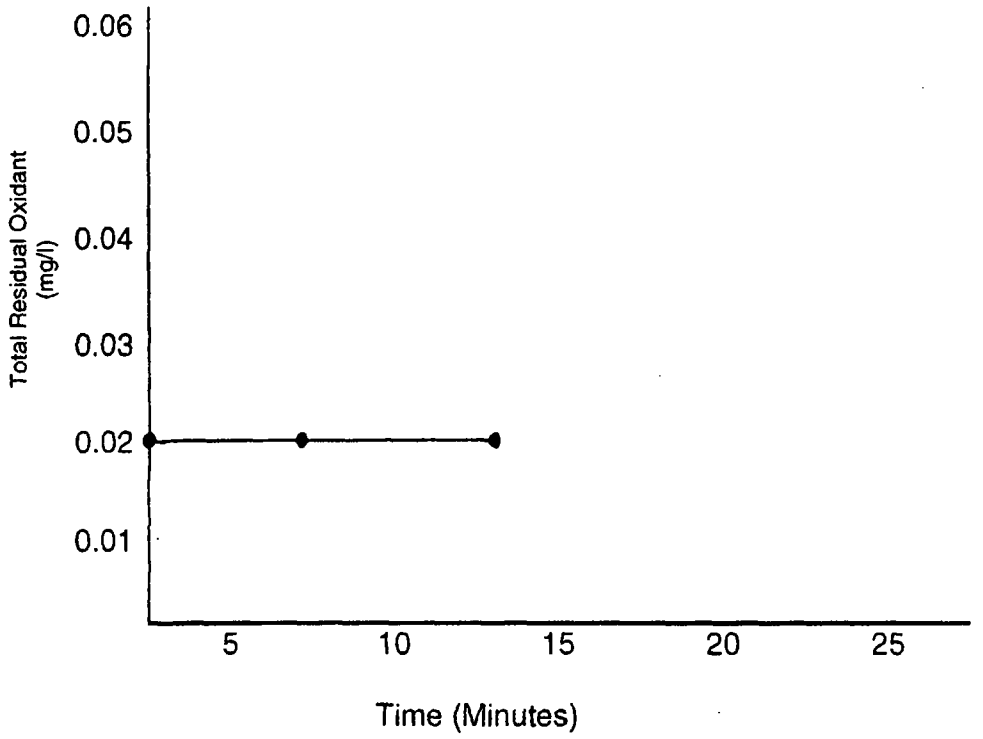
(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: May 3, 2012
Time: 12:00 p.m.



The Unit 1 and Unit 2 Main Cooling Condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the Circulating Water Systems are operating.

May Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant Mean Concentration - < 0.02 mg/l

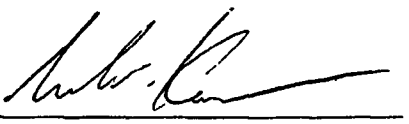
Mark E. Kanavos
Plant Manager
Braidwood Generating Station

ATTACHMENT 2

MAY 2012 DISCHARGE MONITORING REPORT

Special Condition 7 of our permit imposes pumping restrictions at the River Screen House during a four week period (last three weeks of May and the first week of June) when pumping will be allowed only during daylight hours. Listed below are the dates and times the make-up pumps were operated during the May 2012 restricted period.

Date	Start Time	Stop Time	# Pumps Operating
5/14/12	8:45 a.m.	6:00 p.m.	2
5/15/12	9:40 a.m.	5:45 p.m.	2
5/16/12	8:40 a.m.	5:55 p.m.	2
5/17/12	8:35 a.m.	5:55 p.m.	2
5/18/12	8:50 a.m.	5:45 p.m.	2
5/19/12	8:44 a.m.	5:45 p.m.	2
5/20/12	10:02 a.m.	5:35 p.m.	2
5/21/12	8:20 a.m.	5:45 p.m.	2
5/22/12	8:30 a.m.	10:00 a.m.	2
5/23/12	N/A	N/A	0
5/24//12	N/A	N/A	0
5/25/12	8:55 a.m.	5:40 p.m.	2
5/26/12	8:40 a.m.	5:35 p.m.	2
5/27/12	8:25 a.m.	5:40 p.m.	2
5/28/12	10:20 a.m.	5:30 p.m.	2
5/29/12	8:45 a.m.	5:30 p.m.	2
5/30/12	8:30 a.m.	6:07 p.m.	2
5/31/12	8:20 a.m.	5:35 p.m.	2



Mark E. Kanavos
Plant Manager
Braidwood Generating Station

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW120014 Origination Date: 7/20/12

Agency/External Stakeholder: IEPA Submittal Due Date: 7/31/12

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: John Paul Hevrgion *(print)* *(sign)* 7/20/12 *(date)*

Peer Reviewer: Raymond Hall *(print)* *(sign)* 7/20/12 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☐ No

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☑	7/24/12	Jami Rapport	7/24/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☑		☒ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

RECEIVED
SEP 7 2012
By

Exelon Generation®

Mark E. Kanavos
Plant Manager
Braidwood Nuclear Power Station

Telephone 815.417.3700
Fax 815.417.3014
mark.kanavos@exeloncorp.com

35100 South Route 53
Braceville, IL 60407

July 26, 2012
BW120074

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the June 2012 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

jpg/lm
Enclosure

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	06	01	To:	12	06	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.5	2.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.9	2.9	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.064	0.083	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED		815	417-2000	12	07	26

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	06	01	To:	12	06	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.7	3.4	(26)	----------	5.4	7.8	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	-----	7.6	----------	7.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.1	2.2	(26)	----------	3.2	4.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.017	0.082	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mark E. Kanavos

Plant Manager

TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MONTH	DAY
815	417-2000	12	07	26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	06	01	To:	12	06	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	2.4	2.4	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	0.9	0.9	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010 (1)	0.010 (1)	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	07	26
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) No discharge weeks of 6/4/12, 6/11/12 and 6/18/12.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	06	01	To:	12	06	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	8.8	20.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.043	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 07	DAY 26

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	06	01	To:	12	06	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	82.4	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.8	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	29.2 (2)	30.8 (2)	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2003	2124	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	07	26
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

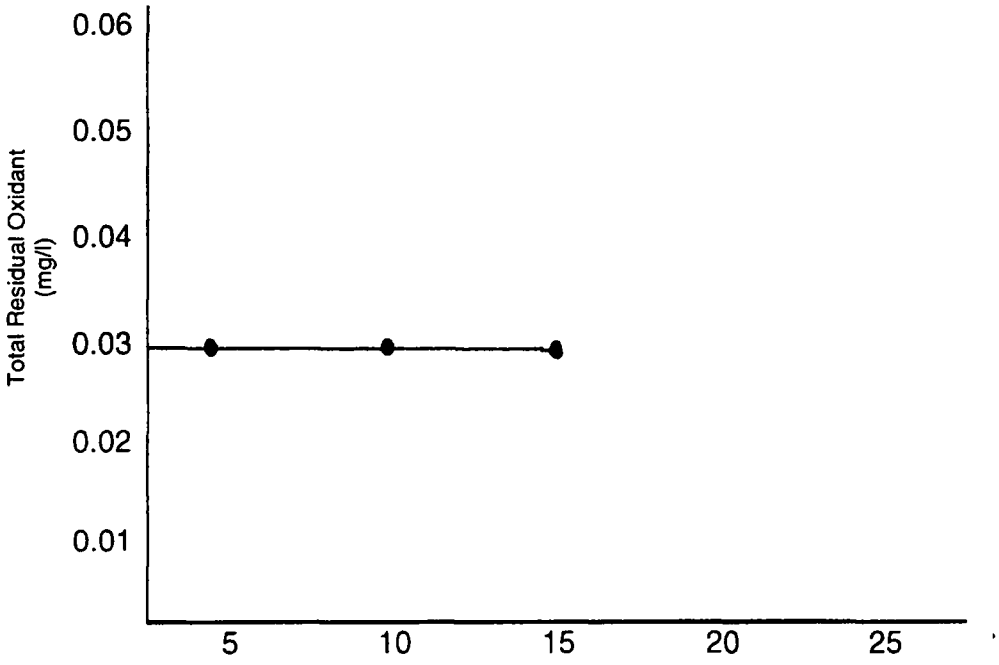
(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)
(2) No discharge weeks of 6/4/12, 6/11/12 and 6/18/12.

ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: June 27, 2012
Time: 1:30 p.m.



The Unit 1 and Unit 2 Main Cooling Condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the Circulating Water Systems are operating.

May Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant Mean Concentration - < 0.03 mg/l

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

ATTACHMENT 2

JUNE 2012 DISCHARGE MONITORING REPORT

Special Condition 7 of our permit imposes pumping restrictions at the River Screen House during a four week period (last three weeks of May and the first week of June) when pumping will be allowed only during daylight hours. Listed below are the dates and times the make-up pumps were operated during the June 2012 restricted period.

Date	Start Time	Stop Time	# Pumps Operating
6/1/12	9:25 a.m.	5:55 p.m.	2
6/2/12	7:40 a.m.	6:00 p.m.	2
6/3/12	8:15 a.m.	6:00 p.m.	2
6/4/12	9:15 a.m.	5:40 p.m.	2
6/5/12	9:00 a.m.	5:30 p.m.	2
6/6/12	9:45 a.m.	5:30 p.m.	3
6/7/12	9:30 a.m.	5:30 p.m.	3
6/8/12	10:20 a.m.	5:30 p.m.	3
6/9/12	9:15 a.m.	5:30 p.m.	3
6/10/12	9:10 a.m.	5:20 p.m.	3

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

RECEIVED
AUG 2 3 2012
By

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW120087 Origination Date: 8/20/12

Agency/External Stakeholder: IEPA Submittal Due Date: 8/31/12

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: John Paul Georgion *(print)* *(sign)* 8/20/12 *(date)*

Peer Reviewer: Raymond Hall *(print)* *(sign)* 8/20/12 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☐ No

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☑	8/22/12		8/21/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☑	8/24/12	☐ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation.

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

August 24, 2012
Bw120087

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the July 2012 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	07	01	To:	12	07	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.2	1.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.8	1.8	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.055	0.127	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	12 YEAR	08 MONTH	24 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	07	01	To:	12	07	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	0.9	1.3	(26)	---	9.3	11.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---	---	---	7.7	---	8.1	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---	---	---	6.0 MINIMUM	---	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	0.6	0.9	(26)	---	6.4	7.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.011	0.029	(03)	---	---	---	---	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---	---	---	---		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 08	DAY 24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	07	01	To:	12	07	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.0	1.0	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.2	1.2	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG.	20.0 DAILY MAX.	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010(1)	0.010(1)	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	12	08	24
	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) No discharge weeks of 7/9/12, 7/16/12 and 7/23/12.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	07	01	To:	12	07	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.5	6.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.043	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 08	DAY 24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	07	01	To:	12	07	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	98.7	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.3	----------	8.8	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	18.3(2)	20.5(2)	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2497	2678	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 12	MONTH: 08	DAY: 24

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)
(2) No discharge weeks of 7/9/12 and 7/16/12.

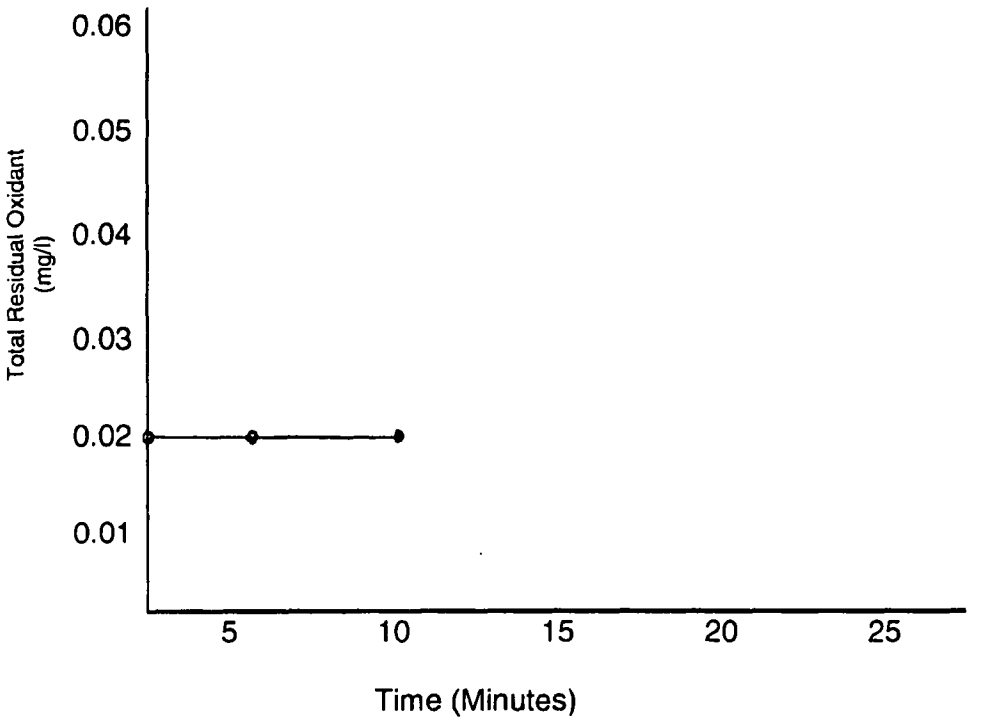
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: July 6, 2012
Time: 4:02 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

July Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - < 0.02 mg/l

Mark E. Kanavos
Braidwood Station

RECEIVED
SEP 18 2012
By

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW120091 Origination Date: 9/10/12

Agency/External Stakeholder: IEPA Submittal Due Date: 9/30/12

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: John Paul Henrion *(print)* John Paul Henrion *(sign)* 9/12/12 *(date)*

Peer Reviewer: Phil Schutz *(print)* *(sign)* 9/13/12 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No Ship FedEx

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	9/13/12		9/13/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	9/17/12	☐ Report Signed and Approved	
Site Vice President	☐	~~9/17/12~~ SDL 9/13/12		

Attach additional page for comments.

Exelon Generation®

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

September 14, 2012
Bw120091

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the August 2012 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	08	01	To:	12	08	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.2	7.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.9	1.9	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.044	0.076	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 09	DAY 14

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	08	01	To:	12	08	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	1.5	2.2	(26)	---------	14.0	16.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.9	---------	8.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	-----	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	0.7	1.2	(26)	---------	5.4	8.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.019	0.044	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 09	DAY 14

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	08	01	To:	12	08	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	0.7	0.7	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.4	1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010(1)	0.010(1)	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 09	DAY 14

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) No discharge weeks of 8/1/12, 8/20/12 and 8/27/12.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	08	01	To:	12	08	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.2	5.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.050	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	09	14
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	08	01	To:	12	08	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	94.9	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.6	----------	8.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	<0.02	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	20.0	31.1	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2350	2682	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG.	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos		815	417-2000	12	09	14
Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED						

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

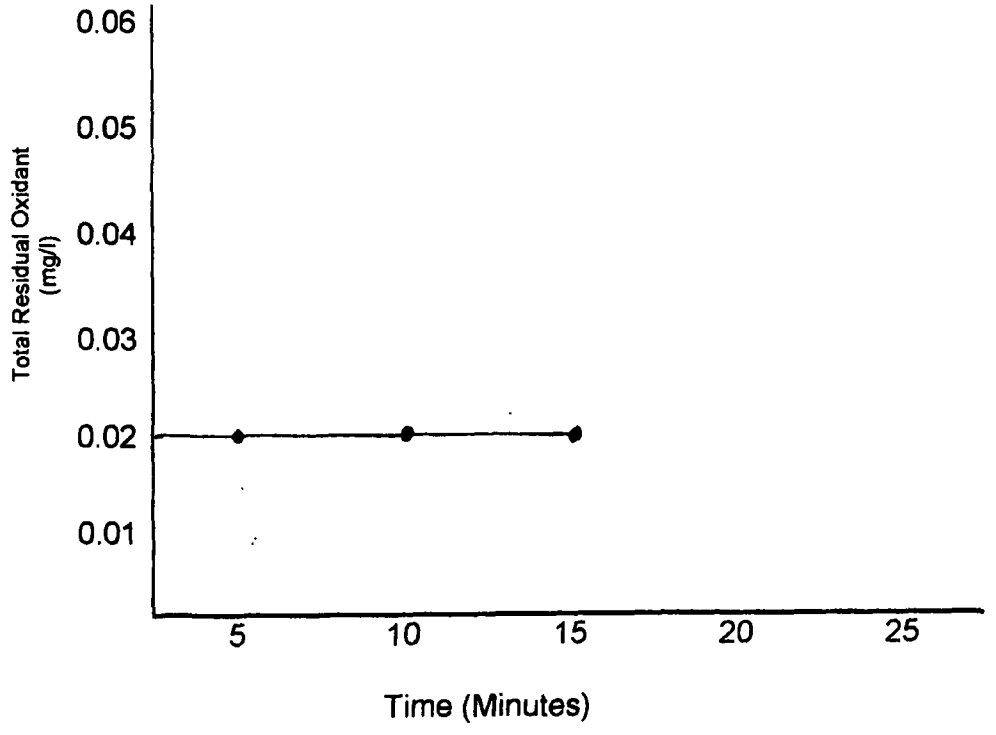
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: August 9, 2012
Time: 1:15 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

August Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - < 0.02 mg/l

Mark E. Kanavos
Braidwood Station

RECEIVED
OCT 18 2012
By

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW120100 Origination Date: 10/12/12

Agency/External Stakeholder: IEPA Submittal Due Date: 10/31/12

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: John Paul Georgiou *(print)* *(sign)* 10/12/12 *(date)*

Peer Reviewer: Christina Xydis *(print)* *(sign)* 10/15/12 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No
Ship Fed Ex

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	10/15/12		10/15/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	10/18/12	☐ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation.

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

October 18, 2012
Bw120100

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the September 2012 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	09	01	To:	12	09	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	2.4	3.6	(19)	0	240	DC
	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT 00550 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	1.9	1.9	(19)	0	285	GR
	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.056	0.088	(03)	———	———	———	———	0	135	TM
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	———		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 10	DAY 18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	09	01	To:	12	09	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	3.0	6.5	(26)	———	15.3	25.0	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	———	———	—	7.8	———	8.0	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	1.4	2.2	(26)	———	7.6	8.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	———	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.019	0.036	(03)	———	———	———	—	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 10	DAY 18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	09	01	To:	12	09	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	1.2	1.8	(19)	0	240	CP
	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT 00550 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	1.2	1.2	(19)	0	285	GR
	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.010(1)	0.010(1)	(03)	———	———	———	—	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	—		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	12 YEAR	10 MONTH	18 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) No discharge week of 9/3/12.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	09	01	To:	12	09	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	———	———	(26)	———	4.2	4.8	(19)	0	240	DC
	PERMIT REQUIREMENT	———	———	LBS/DY	———	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.056	0.079	(03)	———	———	———	----	0	135	CN
	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	10	18
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	09	01	To:	12	09	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	———	———	—	———	———	92.3	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	———	———	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	———	———	—	8.6	———	8.7	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	6.0 MINIMUM	———	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	18.9	19.2	(03)	———	———	———	———	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	———	———	———	———		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	———	———	(26)	———	———	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	LBS/DY	———	———	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	———	———	—	———	———	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	———	———	—	———	———	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2277	2526	(26)	———	———	———	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	———	———	———	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager		AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	10	18

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

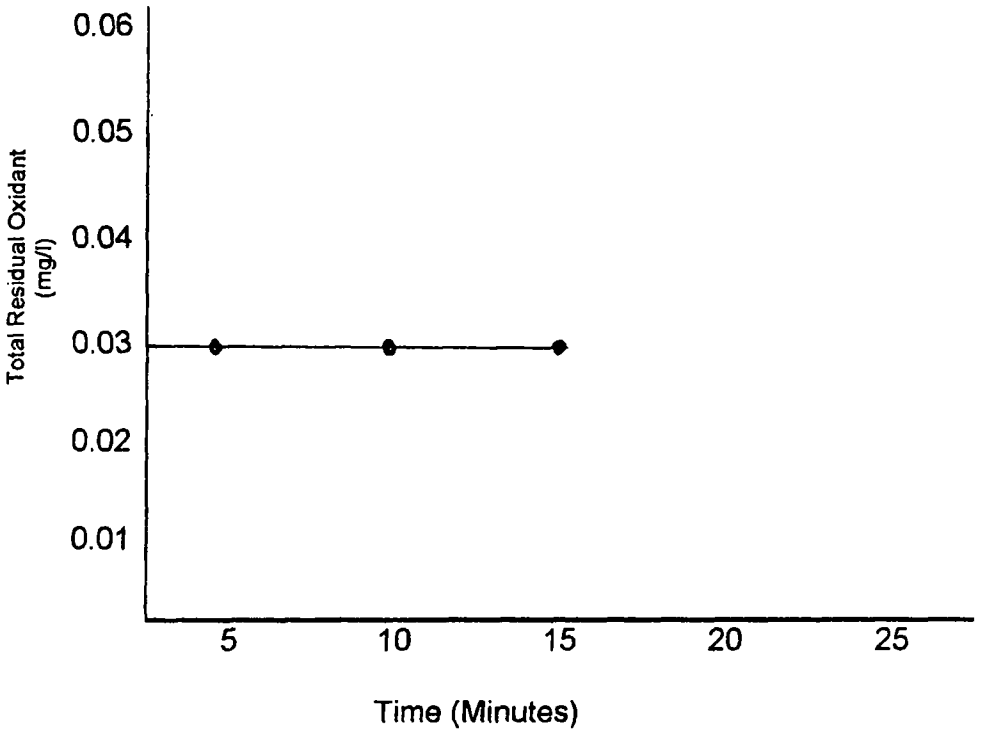
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: September 21, 2012
Time: 1:25 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

September Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - < 0.03 mg/l

Mark E. Kanavos
Braidwood Station

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW 120111 Origination Date: 11/12/12

Agency/External Stakeholder: IEPA Submittal Due Date: 11/30/12

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: John Paul Hennion (print) (sign) 11/12/12 (date)

Peer Reviewer: Christina Xydis (print) (sign) 11/12/12 (date)

Certified Mail Return Receipt Requested: ☐ Yes ☒ No Ship FedEx

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	11/13/12		11/12/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ (specify)	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	11/16/12	☒ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

RECEIVED
NOV 27 2012
By

Exelon Generation®

Exelon Generation Company, LLC www.exeloncorp.com
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

November 16, 2012
Bw120111

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the October 2012 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	10	01	To:	12	10	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	76.7	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.8	----------	9.0*	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	23.8	33.4	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1418	2234	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	11	16
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)
* Maximum pH of 9.0. Algae bloom was confirmed with a vendor sample which yielded a rise in chlorophyll-A.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	10	01	To:	12	10	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.4	9.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.6	3.6	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.060	0.106	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR. TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	11	16
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	10	01	To:	12	10	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT	5.2(1)	5.2(1)	(26)	---------	17.0(1)	17.0(1)	(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----	7.9(1)	---------	7.9(1)	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	-----	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	3.7(1)	3.7(1)	(26)	---------	11.9(1)	11.9(1)	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.036(1)	0.037(1)	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	12	11	16

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) No Discharge weeks of 10/8/12, 10/15/12, 10/22/12 and 10/29/12.

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	10	01	To:	12	10	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	0.8	1.8	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	2.0	2.0	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 11	DAY 16

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	10	01	To:	12	10	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.3	6.3	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.051	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	---------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 447-2000	YEAR 12	MONTH 11	DAY 16

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

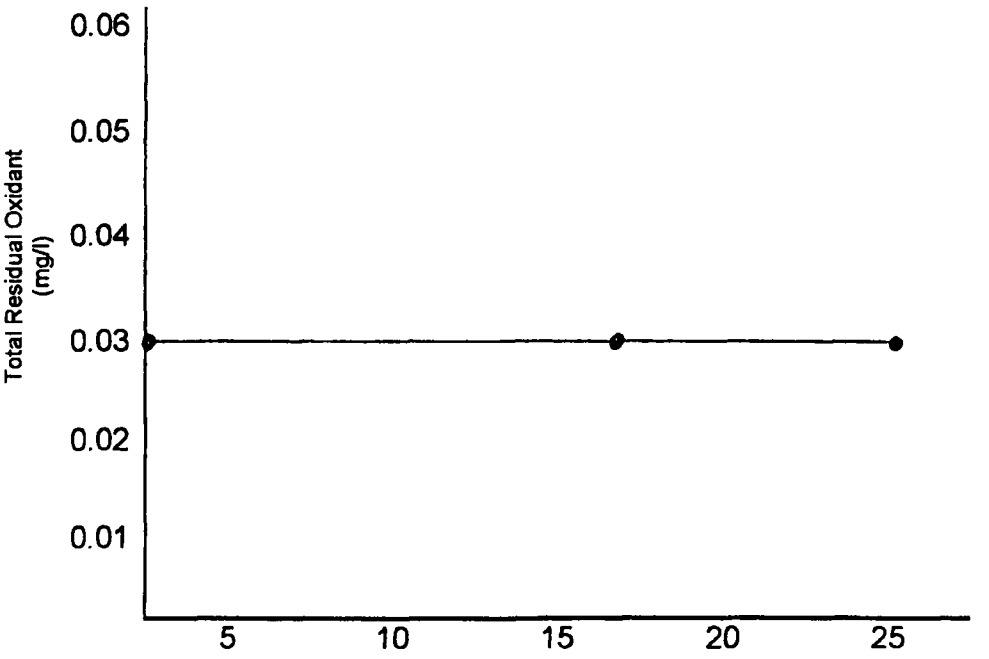
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: October 11, 2012
Time: 11:00 a.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

October Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - < 0.03 mg/l

Mark E. Kanavos
Braidwood Station

RECEIVED
JAN 2 2013
By

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW120125 Origination Date: 12/13/12

Agency/External Stakeholder: IEPA Submittal Due Date: 12/31/12

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: John Paul Georgion *(print)* *(sign)* ~~12/13/12~~ 12/20/12 *(date)*

Peer Reviewer: Christina Lydis *(print)* *(sign)* 12/20/12 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No
Ship FedEx

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	~~12/13/12~~ 12/20/12		12/21/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	~~12/17/12~~ 12/21/12	☑ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation.

Exelon Generation Company, LLC

Braidwood Nuclear Power Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

December 21, 2012
Bw120125

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the November 2012 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Daniel J. Enright
Site Vice President
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	11	01	To:	12	11	30

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.4	3.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	5.4	5.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.050	0.080	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Daniel J. Enright Site Vice President TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 12	MONTH: 12	DAY: 21

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	11	01	To:	12	11	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE [X] ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT			(26)	---------			(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----		---------		(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	-----	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)	---------			(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Daniel J. Enright Site Vice President TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 12	MONTH 12	DAY 21

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev 3/99) **DR** PAGE 1 OF 1

POOR QUALITY ORIGINAL

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	11	01	To:	12	11	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	1.8	3.6	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	<1.4	<1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010	0.010	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Daniel J. Enright Site Vice President TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 12	MONTH: 12	DAY: 21

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

EPA Form 3320-1 (Rev 3/99) **DR** PAGE 1 OF 1

POOR QUALITY ORIG

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	11	01	To:	12	11	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	8.1	14.5	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.055	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Daniel J. Enright Site Vice President TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	12	12	21
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	11	01	To:	12	11	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	68.4	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.9	----------	9.1*	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	19.9	20.3	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	212**	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1372	2058	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Daniel J. Enright Site Vice President TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	12	12	21

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)
*Maximum pH of 9.1. Algae bloom was confirmed with a vendor sample which yielded a rise in chlorophyll-A.
**Discharge time for Unit 2 Chlorination exceeded permit limit. Permit limits chlorination to 120 minutes. On 11/23/12 Unit 2 was chlorinated for 212 minutes due to an equipment failure.

POOR QUALITY ORIGINAL

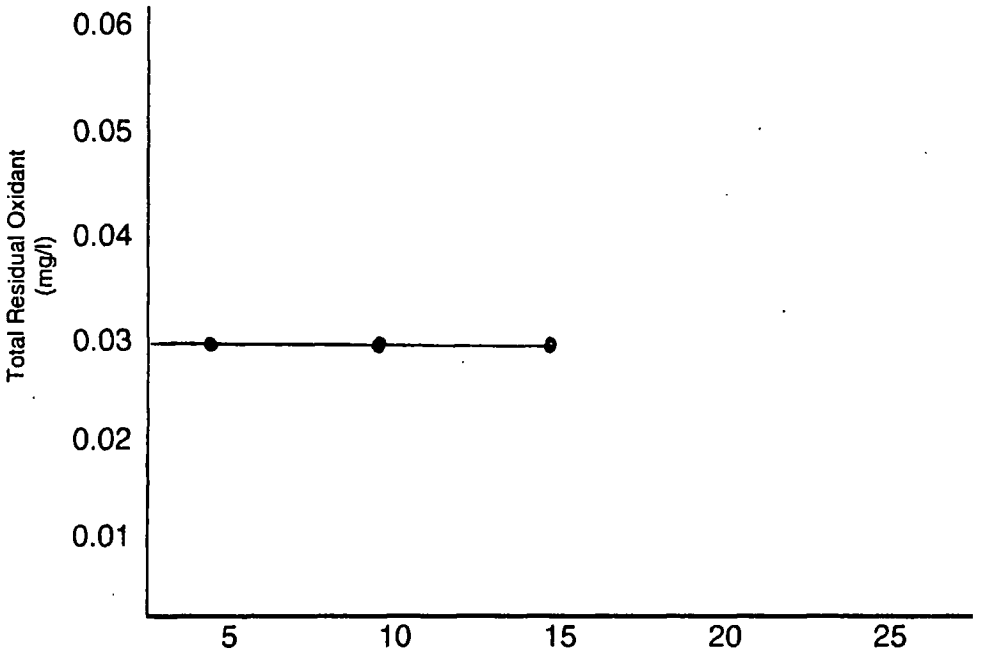
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: November 16, 2012
Time: 3:10 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

November Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - < 0.03 mg/l

Daniel J. Enright
Braidwood Station

RA

RECEIVED
JAN 18 2013
By DL

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW130004 Origination Date: 1/16/13

Agency/External Stakeholder: IEPA Submittal Due Date: 1/31/13

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: John Paul Georgiou *(print)* *(sign)* 1/16/13 *(date)*

Peer Reviewer: Christina Xydis *(print)* *(sign)* 1/16/13 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No Ship FedEx

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	1/16/13		1/16/13
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	1/18/13	☒ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation Company, LLC

Braidwood Nuclear Power Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

January 18, 2013
Bw130004

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the December 2012 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	12	01	To:	12	12	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.9	3.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	<1.4	<1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.055	0.121	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815 AREA CODE	417-2000 NUMBER	13 YEAR	01 MONTH	18 DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	12	01	To:	12	12	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE [X] ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT			(26)	----------			(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	-----		----------		(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)	----------			(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 01	DAY 18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	12	01	To:	12	12	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	<0.5	<0.5	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	<1.4	<1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.010(1)	0.010(1)	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 01	DAY 18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) No discharge the weeks of 12/17/12 and 12/24/12.

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	12	01	To:	12	12	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	1.8	3.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.074	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 13	MONTH: 01	DAY: 18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	12	12	01	To:	12	12	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	66.5	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	-----	---------	---------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.6	----------	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	-----	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	---------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	32.1	34.5	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	---------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	----	---------	---------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1304	1349	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	---------	---------	---------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED		815	417-2000	13	01	18

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

POOR QUALITY ORIGINAL

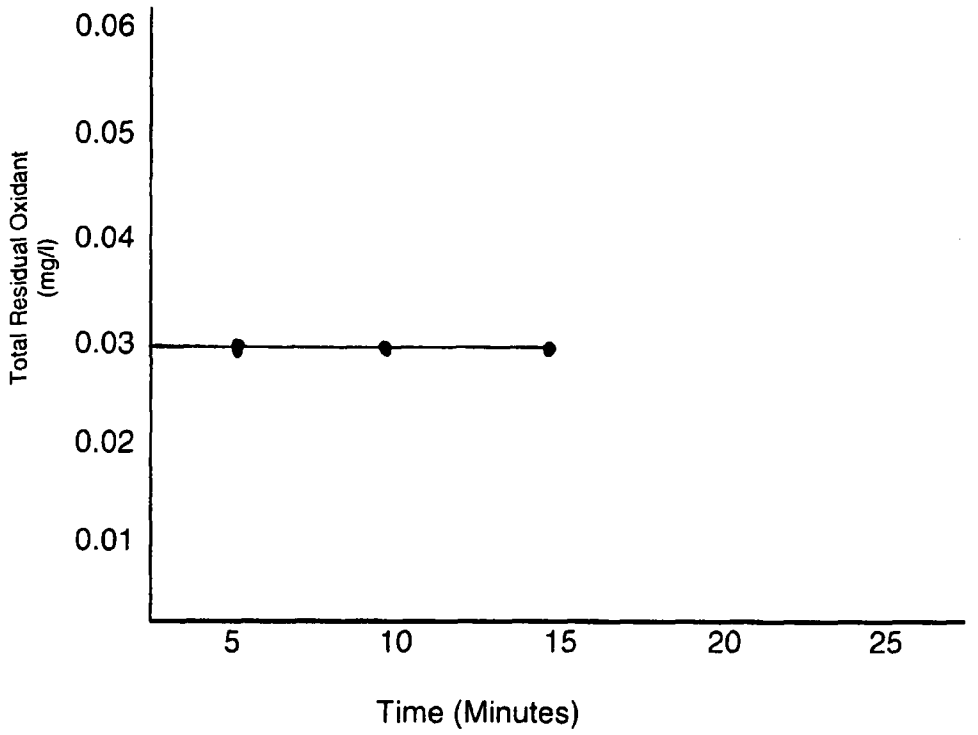
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: December 14, 2012
Time: 1:05 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

December Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - < 0.03 mg/l

Mark E. Kanavos
Braidwood Station

RA

RECEIVED
FEB 18 2013
By DL

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW130016 Origination Date: 2/14/13

Agency/External Stakeholder: IEPA Submittal Due Date: 2/28/13

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Brandywood
(specify)

Preparer: John Paul Newgion *(print)* *(sign)* 2/14/13 *(date)*

Peer Reviewer: Brittney Blanford *(print)* *(sign)* 2/14/13 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No Ship Fed Ex

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	2/14/13		2/14/13
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	2/18/13	☐ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation Company, LLC

Braidwood Nuclear Power Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

February 18, 2013
Bw130016

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the January 2013 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	01	01	To:	13	01	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.0	3.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	4.8	4.8	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.056	0.081	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	13	02	18
TYPED OR PRINTED		AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	01	01	To:	13	01	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE [X] ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT			(26)	---------			(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----		---------		(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	-----	6.0 MINIMUM	---------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)	---------			(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	---------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 02	DAY 18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	01	01	To:	13	01	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	1.1	2.2	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	<1.4	<1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.004	0.005	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	13	02	18
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) No discharge the weeks of 1/1/13 and 1/7/13.

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	01	01	To:	13	01	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.8	4.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.046	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	13	02	18
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	01	01	To:	13	01	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	57.8	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.8	----------	9.0*	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	34.6	35.6	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1289	1467	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	13	02	18
		AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)
*Maximum pH of 9.0. Algae bloom was confirmed with a vendor sample which yielded a rise in chlorophyll-A.

POOR QUALITY ORIGINAL

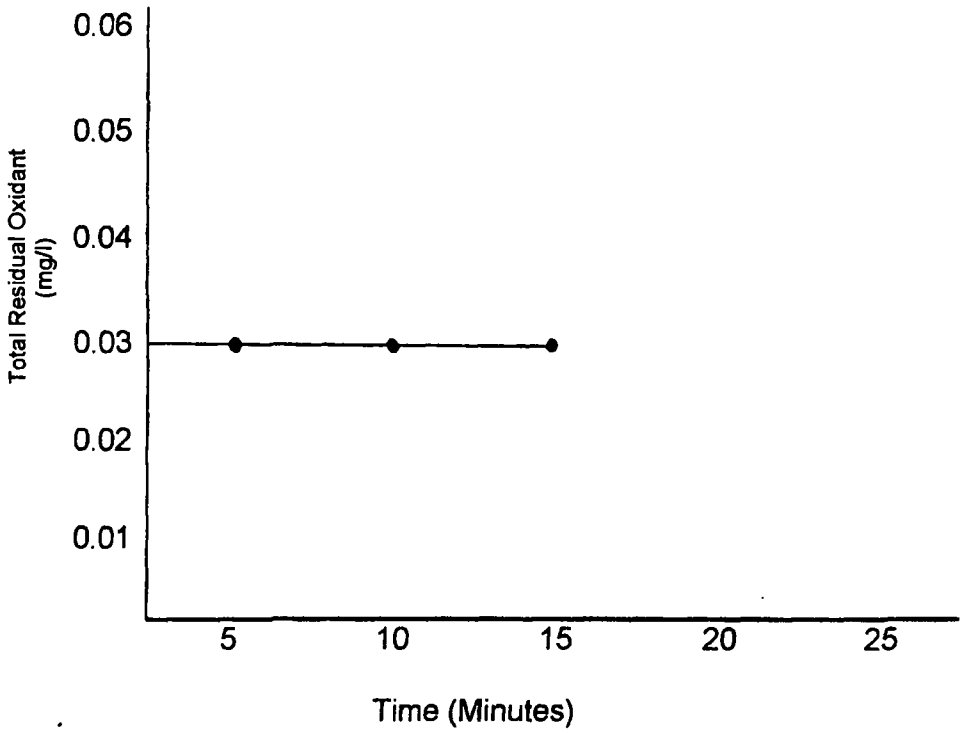
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: January 10, 2013
Time: 12:05 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

January Bromine Usage: 0 lbs. Monthly Average
0 lbs. Daily Maximum.

Total Residual Oxidant mean concentration - < 0.03 mg/l

Mark E. Kanavos
Braidwood Station

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW130030 Origination Date: 3/14/13

Agency/External Stakeholder: IEPA Submittal Due Date: 3/28/13

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Brandywood
(specify)

Preparer: John Paul Kenyon *(print)* *(sign)* 3/14/13 *(date)*

Peer Reviewer: Christina Xyplis *(print)* *(sign)* 3-15-13 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No Ship FedEx

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	3/15/13		3/15/13
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	3/18/13	☐ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation.

Exelon Generation Company, LLC

Braidwood Nuclear Power Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

March 18, 2013
Bw130030

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the February 2013 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	02	01	To:	13	02	28

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.2	3.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	< 1.4	< 1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.055	0.075	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 03	DAY 18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	02	01	To:	13	02	28

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE [X] ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT			(26)	----------			(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	-----		----------		(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)	----------			(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

Mark E. Kanavos
Plant Manager
TYPED OR PRINTED

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE		DATE		
AREA CODE	NUMBER	YEAR	MONTH	DAY
815	417-2000	13	03	18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	02	01	To:	13	02	28

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	2.9	9.5	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	< 1.4	< 1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.006	0.014	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 03	DAY 18

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

POOR QUALITY ORIGINAL

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	02	01	To:	13	02	28

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form.

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.8	5.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.051	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos *Plant Manager* TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I *am aware that there are significant penalties for submitting false information, including the possibility* of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	13	03	18
			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

POOR QUALITY ORIGINAL

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NAME Exelon Generation Co., LLC
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Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	02	01	To:	13	02	28

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	55.1	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.7	----------	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	33.1	35.3	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1348	1613	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE: 815	NUMBER: 417-2000	YEAR: 13	MONTH: 03	DAY: 18

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

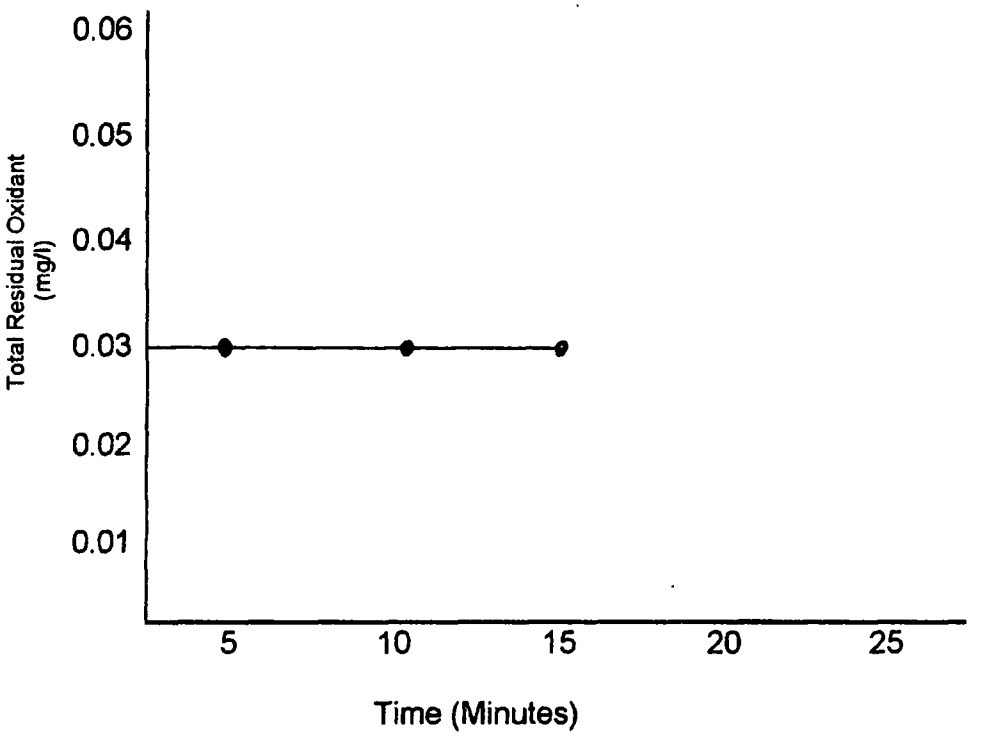
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: February 7, 2013
Time: 1:10 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

Total Residual Oxidant mean concentration - < 0.03 mg/l

Mark E. Kanavos
Braidwood Station

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW130040 Origination Date: 4/11/13

Agency/External Stakeholder: IEPA Submittal Due Date: 4/28/13

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: John Paul Hergion *(print)* *(sign)* 4/11/13 *(date)*

Peer Reviewer: Christina Kydis *(print)* C. Kydis *(sign)* 4/12/13 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No Ship FedEx

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	4/12/13		4/12/13
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	4/15/13	☐ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation Company, LLC

Braidwood Nuclear Power Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

April 15, 2013
Bw130040

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the March 2013 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	03	01	To:	13	03	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	3.9	5.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	<1.4	<1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.072	0.145	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	13	04	15
Plant Manager			AREA CODE	NUMBER	YEAR	MONTH	DAY
TYPED OR PRINTED							

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	03	01	To:	13	03	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** **NO DISCHARGE** [X] ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT			(26)	----------			(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	-----		----------		(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)	----------			(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	13	04	15
TYPED OR PRINTED			AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	03	01	To:	13	03	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	<0.5	<0.5	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	<1.4	<1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.009	0.019	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815 NUMBER 417-2000	YEAR 13	MONTH 04	DAY 15

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) No discharge week of 3/18/13.

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	03	01	To:	13	03	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** **NO DISCHARGE** ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	5.6	8.8	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.063	0.079	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	---------	---------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 04	DAY 15

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

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NAME Exelon Generation Co., LLC
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Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	03	01	To:	13	03	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	66.0	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	-----	8.7	----------	9.1*	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	<0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	33.8	34.2	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	-----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	-----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1357	1433	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	815	417-2000	13	04	15
		AREA CODE	NUMBER	YEAR	MONTH	DAY

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)
*Maximum pH of 9.1. Algae bloom was onfirmed with a vendor sample which yielded a rise in chlorphyll-A.

POOR QUALITY ORIGINAL

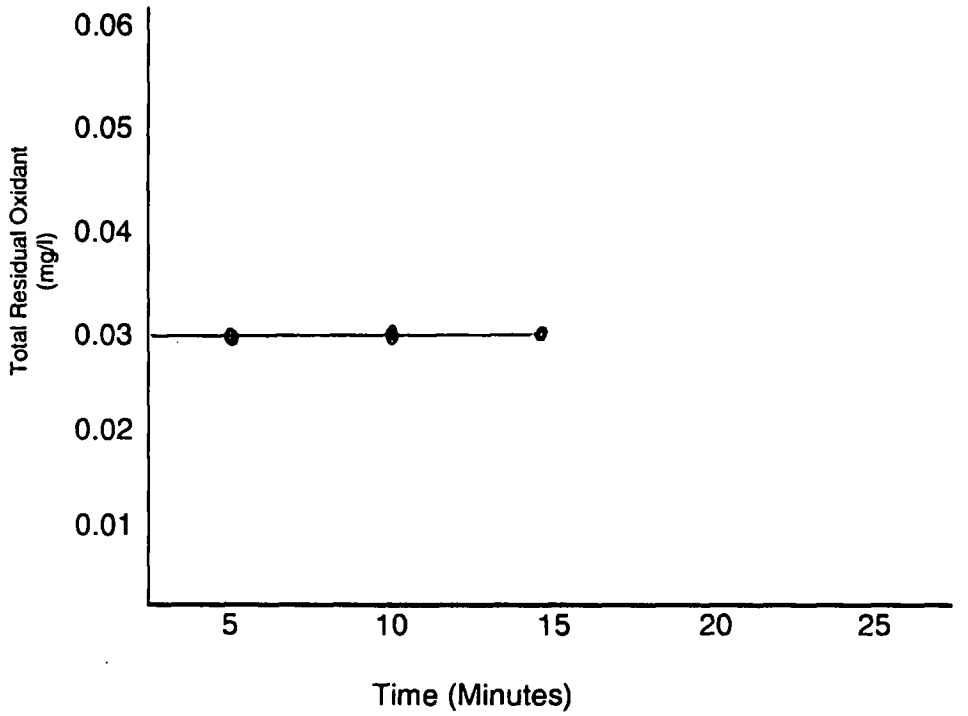
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: March 20, 2013
Time: 12:50 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

Total Residual Oxidant mean concentration - < 0.03 mg/l

Mark E. Kanavos
Braidwood Station

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: Bw 130048 Origination Date: 5/16/13

Agency/External Stakeholder: IEPA Submittal Due Date: 5/28/13

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: John Paul Hennessy (print) _____ (sign) 5/16/13 (date)

Peer Reviewer: Brittney O'Connor (print) _____ (sign) 5/16/13 (date)

Certified Mail Return Receipt Requested: ☐ Yes ☒ No Ship Fed Ex

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	5/16/13	Jamie Rappaport	5/16/13
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ (specify)	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	5/17/13	☐ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation.

Exelon Generation Company, LLC

Braidwood Nuclear Power Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

May 17, 2013
Bw130048

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the April 2013 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)

OCR0501

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	04	01	To:	13	04	30

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	-------	-------	(26)	-------	1.8	3.4	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	-------	-------	(26)	-------	2.1	2.1	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.059	0.083	(03)	-------	-------	-------	----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 05	DAY 17

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	04	01	To:	13	04	30

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE [X] ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT			(26)	---------			(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	---------	---------	-----		---------		(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----	----	-----	6.0 MINIMUM	----	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)	---------			(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			(03)	---------	---------	---------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----	----	----	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 05	DAY 17

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	04	01	To:	13	04	30

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	0.8	1.4	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	---------	---------	(26)	---------	< 1.4	< 1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.007	0.020	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 05	DAY 17

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	04	01	To:	13	04	30

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	---------	---------	(26)	---------	3.8	6.0	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	[redacted]	[redacted]	LBS/DY	[redacted]	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.042	0.079	(03)	---------	---------	---------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	[redacted]	[redacted]	[redacted]	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]			[redacted]	[redacted]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]			[redacted]	[redacted]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]			[redacted]	[redacted]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]			[redacted]	[redacted]
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT	[redacted]	[redacted]		[redacted]	[redacted]	[redacted]			[redacted]	[redacted]

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 05	DAY 17

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	04	01	To:	13	04	30

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	74.6	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	-------	-------	----	8.7	-------	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	6.0 MINIMUM	-------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	32.8	33.2	(03)	-------	-------	-------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	-------	-------	----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	-------	-------	(26)	-------	-------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	LBS/DY	-------	-------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	-------	-------	----	-------	-------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	-------	-------	----	-------	-------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	1628	2471	(26)	-------	-------	-------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	-------	-------	-------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 05	DAY 17

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

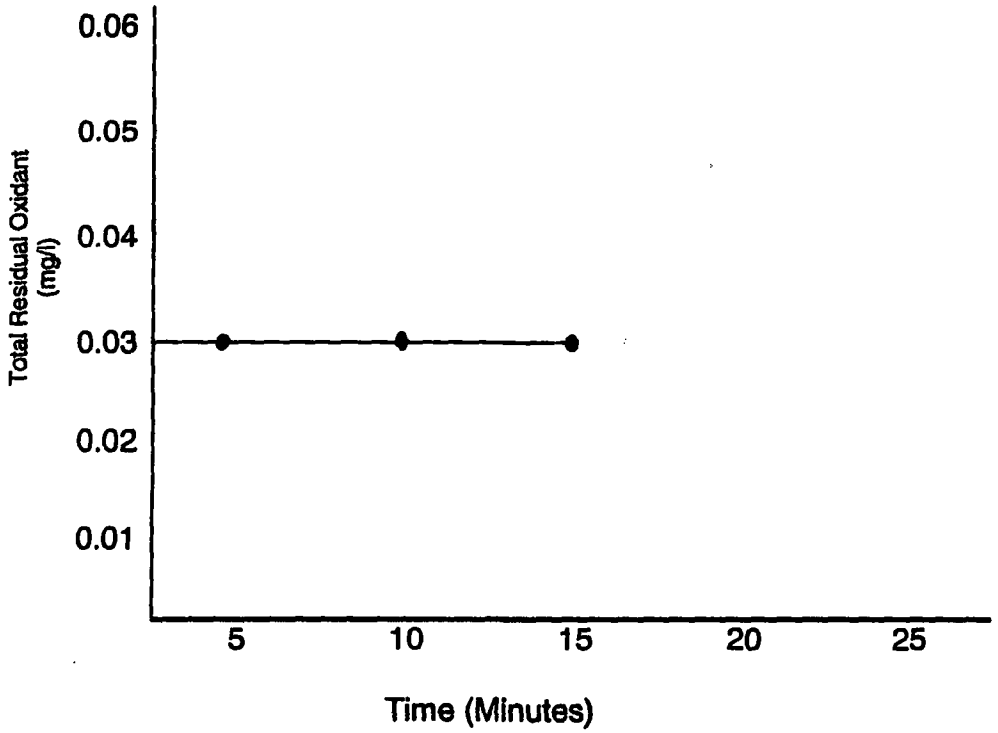
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: April 11, 2013
Time: 1:10 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

Total Residual Oxidant mean concentration - < 0.03 mg/l

Mark E. Kanavos
Braidwood Station

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW 130057 Origination Date: 6/18/13

Agency/External Stakeholder: IEPA Submittal Due Date: 6/28/13

Recipient of Correspondence: IEPA Division of Water Pollution Control
(name and title if known)

Purpose of Submittal: Monthly Discharge Monitoring Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: John Paul Hourigan *(print)* *(sign)* 6/18/13 *(date)*

Peer Reviewer: Bethney O'Connor *(print)* *(sign)* 6/18/13 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No Ship Fed Ex

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	6/18/13		6/18/13
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	6/20/13	☐ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation.

Exelon Generation Company, LLC

Braidwood Nuclear Power Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

June 20, 2013
Bw130057

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
1021 North Grand Avenue East
Springfield, Illinois 62794-9276

Attention: Compliance Assurance Section

Subject: Monthly Discharge Monitoring Report

Enclosed please find the May 2013 Discharge Monitoring Report for Braidwood Station as required per our Permit #IL0048321.

If you have any questions regarding the above, please contact John Paul Georgiou at (815) 417-3284.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 A
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	05	01	To:	13	05	31

MAJOR
(SUBR 02)
F - FINAL
WASTEWATER TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	2.4	3.2	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	-------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP24
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	----------	< 1.4	< 1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	---------	---------	LBS/DY	-------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.048	0.091	(03)	----------	----------	----------	-----	0	135	TM
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	-------	----------	----------	-----		DAILY	24 HR TOTAL
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
			815	417-2000	13	06	20

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

INFORMATION ONLY

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 B
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	05	01	To:	13	05	31

MAJOR
(SUBR 02)
F - FINAL
SEWAGE TREATMENT PLANT
EFFLUENT

*** NO DISCHARGE [X] ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
BOD, 5-DAY (20 DEG. C)	SAMPLE MEASUREMENT			(26)	----------			(19)	0	240	DC
00310 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
PH	SAMPLE MEASUREMENT	----------	----------	----		----------		(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT			(26)	----------			(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	19.5 30 DAY AVG	39.0 DAILY MAX	LBS/DY	----------	30.0 30 DAY AVG	60.0 DAILY MAX	MG/L		WEEKLY	COMP24
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT			(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	815	417-2000	13	06	20
TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

INFORMATION ONLY

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 C
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	05	01	To:	13	05	31

MAJOR
(SUBR 02)
F - FINAL
RADWASTE TREATMENT SYSTEM
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	---------	3.4	15.0	(19)	0	240	CP
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMPOS
OIL AND GREASE (SOXHLET EXTR.) TOT	SAMPLE MEASUREMENT	----------	----------	(26)	---------	< 1.4	< 1.4	(19)	0	285	GR
00550 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	---------	15.0 30 DAY AVG	20.0 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.006	0.020	(03)	---------	---------	---------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	---------	----------	----------	-----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE	NUMBER	YEAR	MONTH	DAY
		815	417-2000	13	06	20

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

INFORMATION ONLY

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
NAME Exelon Generation Co., LLC
ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 D
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	05	01	To:	13	05	31

MAJOR
(SUBR 02)
F - FINAL
DEMINERALIZER REGENERANT WSTS EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING AVERAGE	QUANTITY OR LOADING MAXIMUM	QUANTITY OR LOADING UNITS	QUANTITY OR CONCENTRATION MINIMUM	QUANTITY OR CONCENTRATION AVERAGE	QUANTITY OR CONCENTRATION MAXIMUM	QUANTITY OR CONCENTRATION UNITS	NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	----------	----------	(26)	----------	6.1	9.6	(19)	0	240	DC
00530 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	15.0 30 DAY AVG	30.0 DAILY MAX	MG/L		WEEKLY	COMP-8
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.059	0.079	(03)	----------	----------	----------	----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	----		DAILY	CONTIN
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 06	DAY 20

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

INFORMATION ONLY

POOR QUALITY ORIGINAL

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

OCR0501

PERMITTEE NAME/ADDRESS
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ADDRESS 4300 Winfield Road
Warrenville, IL 60555

FACILITY Braidwood Nuclear Power Station
LOCATION 35100 S. Rt. 53, Suite 84
Braceville, IL 60407

IL0048321	001 0
PERMIT NUMBER	DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MONTH	DAY		YEAR	MONTH	DAY
From:	13	05	01	To:	13	05	31

MAJOR
(SUBR 02)
F - FINAL
COOLING POND BLOWDOWN LINE
EFFLUENT

*** NO DISCHARGE ☐ ***

NOTE: Read instructions before completing this form

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	85.2	(15)	0	135	CN
00011 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	DEG. F		DAILY	CONTIN
PH	SAMPLE MEASUREMENT	----------	----------	----	8.6	----------	8.9	(12)	0	240	GR
00400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	6.0 MINIMUM	----------	9.0 MAXIMUM	SU		WEEKLY	GRAB
OXIDANTS, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	< 0.03	(19)	0	285	GR
34044 1 0 1 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.05 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	27.4	33.6	(03)	----------	----------	----------	-----	0	135	CN
50050 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT 30 DAY AVG	REPORT DAILY MAX	MGD	----------	----------	----------	-----		DAILY	CONTIN
CHLORINE, TOTAL RESIDUAL	SAMPLE MEASUREMENT	----------	----------	(26)	----------	----------	N/A(1)	(19)	0	500	OT
50060 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	LBS/DY	----------	----------	0.2 DAILY MAX	MG/L		ONCE/ MONTH	GRAB
CHLORINATION DURATION	SAMPLE MEASUREMENT	----------	----------	----	----------	----------	110	(14)	0	135	MS
78739 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	----------	----------	----	----------	----------	REPORT DAILY MAX	MINUTES		SEE PERMIT	
CHLORINE USAGE	SAMPLE MEASUREMENT	2320	2556	(26)	----------	----------	----------	(19)	0	135	MS
81400 1 0 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	REPORT MO AVG	REPORT DAILY MAX	LBS/DY	----------	----------	----------	MG/L		SEE PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
Mark E. Kanavos Plant Manager TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPLE EXECUTIVE OFFICER OR AUTHORIZED AGENT	AREA CODE 815	NUMBER 417-2000	YEAR 13	MONTH 06	DAY 20

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

(1) Chlorine Biocide used - Reported as Total Residual Oxidants (Attachment 1)

INFORMATION ONLY

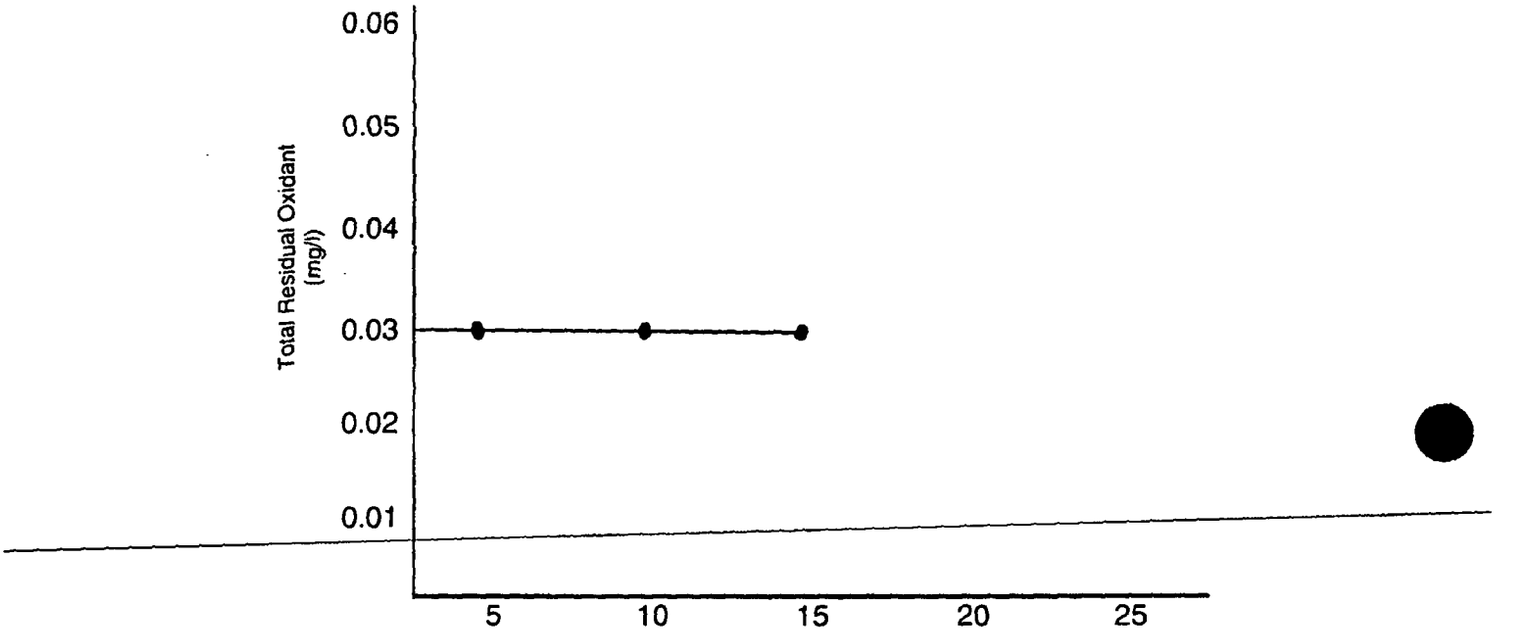
ATTACHMENT 1

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT

Exelon Generation
Braidwood Nuclear Power Station
35100 South Rt. 53 Suite 84
Braceville, Illinois 60407

Date: May 1, 2013
Time: 12:40 p.m.



The Unit 1 and Unit 2 main cooling condensers will be routinely treated at approximately 1:00 a.m. and 10:00 a.m. respectively whenever the circulating water systems are operating.

Total Residual Oxidant mean concentration - < 0.03 mg/l

Mark E. Kanavos
Braidwood Station

INFORMATION ONLY

Attachment 2

May 2013 Discharge Monitoring Report

Special Condition 7 of our permit imposes pumping restrictions at the River Screen House during a four week period (last three weeks of May and the first week of June) when pumping will be allowed only during daylight hours. Listed below are the dates and times the make-up pumps were operated during the May 2013 restricted period.

Date	Start Time	Stop Time	# Pumps Operating
5/13/13	6:44 a.m.	10:00 a.m.	2
5/14/13	N/A	N/A	0
5/15/13	6:40 a.m.	6:35 p.m.	2
5/16/13	6:40 a.m.	6:40 p.m.	2
5/17/13	6:38 a.m.	6:40 p.m.	2
5/18/13	6:37 a.m.	6:30 p.m.	2
5/19/13	6:36 a.m.	6:33 p.m.	2
5/20/13	N/A	N/A	0
5/21/13	7:41 a.m.	7:00 p.m.	2
5/22/13	6:43 a.m.	6:50 p.m.	2
5/23/13	6:34 a.m.	6:30 p.m.	2
5/24/13	6:45 a.m.	6:40 p.m.	3
5/25/13	6:31 a.m.	6:40 p.m.	3
5/26/13	6:32 a.m.	6:40 p.m.	3
5/27/13	6:30 a.m.	6:40 p.m.	3
5/28/13	7:05 a.m.	6:48 p.m.	3
5/29/13	7:20 a.m.	6:43 p.m.	3
5/30/13	7:41 a.m.	7:11 p.m.	3
5/31/13	6:30 a.m.	6:30 p.m.	3

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

INFORMATION ONLY

Braidwood Environmental Audit – Request for Additional Information Response

Question #: SW-7 Category: Surface Water

Statement of Question:

Provide copies of any Notices of Violation (NOVs), nonconformance notifications, or related infractions received from regulatory agencies associated with NPDES permitted discharges, sanitary sewage systems, groundwater or soil contamination, including spills, leaks, and other inadvertent releases of fuel solvents, chemicals, or radionuclides (covering the past 5 years). Include correspondence of self-reported violations to responsible agencies.

Response:

During the past 5 years, the Braidwood Station has received no notices of violation from regulatory agencies associated with NPDES permitted discharges, sanitary sewage systems, groundwater or soil contamination. The monthly Discharge Monitoring Reports (DMRs) listed below have notified the Illinois EPA of noncompliance with NPDES permit limits or conditions. The DMRs listed below are available in the response to Request for Additional Information Question SW-6.

Month and Year Covered by DMR	Description of Noncompliance
July 2009	Sewage treatment plant effluent (Outfall 001B)* exceeded the 30-day average concentration limit for BOD_5
April 2011	Sewage treatment plant effluent (Outfall 001B)* exceeded the 30-day average concentration limit and the daily maximum limit for BOD_5
May 2011	Demineralizer regenerant wastes effluent (Outfall 001D) exceeded the daily maximum limit for Total Suspended Solids
March 2012	Cooling pond blowdown line effluent (Outfall 001 0) exceeded the temperature limit in Special Condition 3B at points beyond the mixing zone edge due to extreme, record-breaking, warm weather. However, on March 22, 2012, Illinois EPA granted a provisional variance from the requirements of Special Condition 3.**
November 2012	Cooling pond blowdown line effluent (Outfall 001 0) exceeded the limit for maximum pH due to an algae bloom

* In October 2012, the station's sewage treatment plant ceased operation, and sewage was rerouted directly into the City of Braidwood Sewage Treatment Plant.

** The authorization for provisional variance from Special Condition 3B is attached to this response.

List Attachments Provided:

1. Illinois Environmental Protection Agency, 2012. Provisional Variance From Special Condition 3B of NPDES Permit IL0048321, IEPA – 12-12 (Provisional Variance-Water). March 22, 2012.

Received 3/22/12
WK

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY

March 22, 2012

Exelon Generation Company, LLC Braidwood Nuclear Power Station Petitioner, v. ILLINOIS ENVIRONMENTAL PROTECTION AGENCY, Respondent.	)	IEPA – 12-12 (Provisional Variance-Water)

Re: Provisional Variance From Special Condition 3B of NPDES Permit IL0048321

Dear Mr. Kanavos:

The Illinois Environmental Protection Agency (Illinois EPA) has completed its technical review of the attached provisional variance request, dated March 21, 2012 (Exhibit A), submitted by Exelon Generation Company, LLC for its Braidwood Nuclear Power Station ("Exelon Braidwood" or "Facility"). Exelon Braidwood has requested a provisional variance because the recent unusually hot and dry period of weather has resulted in intake temperatures of approximately 60° Fahrenheit ("F") or above, which presents an undue hardship for Exelon Braidwood to meet the effluent thermal limits of 60° F contained in NPDES Permit IL048321. (Exhibit B)

Based on its review, the Illinois EPA GRANTS Exelon Braidwood a provisional variance from the thermal limits in Special Condition 3B of NPDES Permit IL0048321, subject to the specific conditions set forth below.

Background

Exelon Braidwood is a nuclear-fueled steam electric generating facility located approximately five miles from the Kankakee River at 35100 South Route 53, Braceville, Illinois. The Facility's two pressurized water reactors have a combined maximum generating capacity of 2,461 megawatts.

Exelon Braidwood withdraws its condenser cooling water from a 2,640 acre cooling pond. Condenser cooling water and service water is discharged to the cooling pond for dissipation of waste heat and is then recycled. A portion of the recycled water is discharged as blowdown back to the Kankakee River. Make-up water is pumped from the Kankakee River to the cooling pond to compensate for evaporation and blowdown losses.

SRS #2H.103

The Facility's process wastewaters are discharged to the cooling pond and the cooling pond blowdown line which discharges to the Kankakee River.

Special Condition No. 3B of Braidwood's NPDES Permit requires that water temperature at the edge of the mixing zone shall not exceed 60° F (from December through March) during more than one (1) percent of the hours (excursion hours) in the 12-month period ending with any month (87.6 hours annually) and that, at no time shall the water temperature at such locations exceed the maximum limits by more than 3 degrees F (63° F). The monthly maximum temperature limit contained in the Braidwood Permit increases to 90° F beginning April 1 through November.

As a consequence of the record breaking warm weather and absence of cooling during the evening hours, along with high ambient river temperatures even at current flow rates, the capacity of the Kankakee River to dissipate heat has been drastically reduced beyond its normal capabilities. The river is not cooling off during the evening hours as is typical during this time of year. Without nighttime cooling, the river retains the heat introduced to it during the daytime hours, both upstream and downstream.

When the ambient river temperatures exceed the non-excursion hour limits of 60° F, the Facility has no option other than to use excursion hours, and once its allotment of excursion hours is depleted, the Facility must significantly derate or cease operating altogether to maintain compliance with its NPDES Permit. Adding cooling facilities (such as cooling towers) will not allow the Facility to achieve compliance with a limit that already is exceeded even before any heat is added as a result of Facility operations.

Based on current weather forecasts it is expected that Exelon Braidwood will likely have consumed a large percentage of its permitted excursion hours before Tuesday afternoon, March 20, 2012. Therefore, unless relief is granted by way of a provisional variance, it is likely that the Facility will be forced to shut down for a correspondingly significant duration. Shutting down or significantly derating a base-loaded nuclear power plant such as Exelon Braidwood could jeopardize the stability of the electrical grid (and availability/reliability of electricity in the region), particularly if other plants are required to shut down or derate due to the unusual weather conditions being experienced. With both units offline and not immediately able to return to service, Exelon Braidwood would not be available to support the voltage requirements that could occur under changing grid conditions, including voltage support for the Commonwealth Edison Company and Mid American Transmission systems.

Additionally, when the ambient river temperatures exceed the excursion hour limits of 63° F, the Facility has no option other than to isolate and secure the blowdown in order to maintain compliance with its NPDES Permit. If Exelon Braidwood were to initiate discharge of the blowdown, the Facility would instantly be in non-compliance with the maximum NPDES Permit temperature limit of 63° F. Therefore, unless relief is granted by way of a provisional variance, the Facility would need to maintain isolation of the blowdown in the cooling lake, which would threaten Exelon's Braidwood's operations as well as the health of the cooling lake. Extended periods of time with isolated blowdown

can cause the cooling lake level to rise, which can pose a risk to the outlying perimeter dikes of the cooling lake. Additionally, the cooling lake could then become chemically concentrated, which would negatively impact its use for cooling critical plant components and would make it difficult to maintain its chemical and environmental health during warm weather periods.

Exelon Braidwood does not currently have temperature probes installed upriver of its intake because the Facility's NPDES Permit does not require upstream monitoring during the winter months, and, due to concerns with icing, the probes are typically removed in winter to avoid breakage. However, the temperature data that does exist demonstrates that the river temperature at the intake has been exceeding the monthly maximum temperature standards due to naturally occurring abnormally high ambient river temperatures for the month of March.

As a result of these record breaking weather conditions, Exelon Braidwood began using excursion hours on Monday, March 19, 2012 at 02:00 A.M when the upstream river temperature was 67.5° F. That temperature exceeds both the 60° F non-excursion hour monthly maximum standard for March and the 63° F excursion hour limit. At that time, the water temperature at the edge of the Facility's mixing zone was 67.9° F, which represents a 0.4° F temperature rise above ambient with both units operating. As of 03:00 A.M. on March 20, 2012, Exelon Braidwood had accumulated 25.0 excursion hours due to the recent record breaking warm weather and was forced to isolate and secure blowdown based on the ambient river temperature's exceedance of the 63° F excursion hour limit.

Relief Requested

Due to the unseasonably warm weather and the inability to maintain long-term non-discharge conditions, Exelon Braidwood requests a provisional variance from NPDES Permit Special Condition 3B, which requires river temperatures at the edge of the mixing zone for the month of March not to exceed 60° F during non-excursion hour episodes and 63° F when excursion hours are being used. The provisional variance request is predicated upon the recent ambient Kankakee River water temperatures that exceed the monthly maximum standards for March.

Specifically, Exelon Braidwood requests that a provisional variance be issued that allows the Facility to cause temperatures at the edge of the mixing zone to increase by no more than 3° F above ambient temperatures for up to 286.7 hours. The term of the provisional variance would be effective from March 21, 2012, through March 31, 2012.

Agency Determinations

The Agency has reviewed the requested provisional variance and has concluded the following:

1. Any environmental impact from the requested relief shall be closely monitored, and the Agency shall be immediately notified of any adverse impacts.

2. No reasonable alternatives appear available;

3. No public water supplies should be affected;

4. No federal regulations will preclude the granting of this request; and

5. Exelon Braidwood will face an arbitrary and unreasonable hardship if the request is not granted.

Conditions

The Illinois EPA hereby GRANTS Exelon Braidwood a provisional variance from Special Condition 3B of NPDES Permit IL0048321, subject to the following conditions:

A. The term of this provisional variance shall begin on March 21, 2012, and end no later than March 31, 2012. During this provisional variance term, the water temperature at the edge of the mixing zone provided in NPDES Permit IL0048321 shall not exceed 70° F or 2° F above ambient river temperature, whichever is greater. Further, upon notification to the Agency that the Facility has exhausted its excursion hours, this provisional variance also grants additional excursion hours to Exelon Braidwood through March 31, 2012. This provisional variance is granted based on the facts and circumstances described in the request dated March 21, 2012, and additional written clarifications, especially including several consecutive days of abnormally high ambient water temperatures in the Kankakee River. If the facts and circumstances described in the request abate the term of this provisional variance will end.

B. Exelon Braidwood shall provide the best operation of its available equipment to produce the best effluent possible at all times during the term of this provisional variance. At no time during the term of this provisional variance shall the water temperature at the edge of the mixing zone exceed a temperature of 70° F or 2° F above ambient river temperature, whichever is greater.

C. During the variance period, Exelon Braidwood must continuously monitor intake, discharge and receiving water temperatures and to visually inspect intake and discharge areas at least three times daily to assess any mortalities to fish and other aquatic life.

D. Exelon Braidwood shall document environmental conditions during the term of the provisional variance and submit the documentation to the Illinois EPA and the Illinois Department of Natural Resources ("Illinois DNR") within thirty (30) days after this provisional variance expires.

E. Exelon Braidwood shall immediately notify the Illinois EPA and Illinois DNR of any unusual conditions, including mortalities of fish or other aquatic life, immediately take action to remedy the problem, investigate and document the cause and seriousness of the unusual conditions while providing updates to the Illinois EPA and Illinois DNR as changes occur until normal conditions return; notify the Illinois EPA and Illinois DNR when normal conditions return and submit the documentation to the Illinois EPA and Illinois DNR within thirty (30) days after normal conditions return.

F. Exelon Braidwood shall develop and implement a response and recovery plan to address any adverse environmental impact due to thermal conditions that could result from the provisional variance, including loss and damage to aquatic life.

G. Exelon Braidwood shall notify Roger Callaway, Illinois EPA, by telephone at 217-782-9720 when the Facility's discharge first causes or contributes to an exceedance of the applicable permitted temperature limit of 70° in March. Written confirmation of each notice shall be sent within five days to the following address:

Illinois Environmental Protection Agency
Bureau of Water - Water Pollution Control
Attention: Roger Callaway
1021 North Grand Avenue East, MC #19
Springfield, Illinois 62794-9276

H. Exelon Braidwood shall sign a certificate of acceptance of this provisional variance and forward that certificate to Roger Callaway at the address indicated above within one day of the date of this order.

The certification should take the following form:

I (We)_____, hereby accept and agree to be bound by all terms and conditions of the provisional variance granted by the Agency in _____dated _____.

_____ _____
Petitioner Title

_____ _____
Authorized Agent Date

Exelon Braidwood shall continue to monitor all parameters and comply with all other conditions specified in its NPDES Permit No. IL0048321.

The Illinois EPA grants this provisional variance in accordance with its authority contained in Sections 35(b), 36 (c), and 37(b) of the Illinois Environmental Protection

Act (415 ILCS 5/35(b), 36(c), and 37(b) (2004). The decision to grant this provisional variance is not intended to address compliance with any other applicable laws or regulations.

Sincerely,

Julie Armitage
Acting Chief Legal Counsel

cc: Marcia Willhite
Roger Callaway
Michael Roubitchek

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon
Nuclear

March 21, 2012
Bw120027

Mr. Roger Callaway (CAS-19)
Wastewater Compliance Unit Manager
Illinois Environmental Protection Agency
Bureau of Water
Compliance Assurance Section #19
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9274

Subject: Braidwood Nuclear Power Station
NPDES Permit No. IL0048321
Provisional Variance Request – Emergency Application

Dear Mr. Callaway:

Exelon Generation Company, L.L.C. ("Exelon") hereby requests that the Illinois Environmental Protection Agency ("IEPA" or "Agency") grant a provisional variance for Braidwood Nuclear Power Station ("Braidwood" , "Station" or "Facility"), pursuant to Section 35(b) of the Environmental Protection Act ("Act") 415 ILCS 5/35. Exelon submits this application for a provisional variance consistent with IEPA procedures at 35 Ill. Adm. Code 104.300.

Braidwood Station is located approximately five miles from the Kankakee River in Will County, Illinois. The Station discharges wastewater pursuant to NPDES Permit No. IL0048321, which IEPA issued on August 24, 1995.

Background

Braidwood Station is a nuclear-fueled steam electric generating facility located at 35100 South Route 53, Braceville, Illinois. The two pressurized water reactors have a combined maximum generating capacity of 2,461 megawatts. Circulating water used to cool and condense the steam from the generating process is withdrawn from, and discharged to, the Kankakee River.

Braidwood withdraws its condenser cooling water from a 2,640 acre cooling pond. Condenser cooling water and service water is discharged to the cooling pond for dissipation of waste heat and is then recycled. A portion of the recycled water is discharged as blowdown back to the Kankakee River. Make-up water is pumped from the Kankakee River to the cooling pond to compensate for evaporation and blowdown losses. Station process wastewaters are discharged to the cooling pond and the cooling pond blowdown line which discharges to the Kankakee River.

Special Condition No. 3B of Braidwood's NPDES Permit requires that water temperature at the edge of the mixing zone shall not exceed 60 degrees F (in December through March) during more than one (1) percent of the hours (excursion hours) in the 12-month period ending with any month (87.6 hours annually) and that, at no time shall the water temperature at such locations exceed the maximum limits by more than 3 degrees F (63 degrees F). The monthly maximum temperature limit contained in the Braidwood Permit increases to 90 degrees F beginning April 1 (thru November).

As a consequence of the record breaking warm weather and absence of cooling during the evening hours, and high ambient river temperatures even at current flow rates, the capacity of the Kankakee River to dissipate heat has been drastically reduced beyond its normal capabilities. The river is not cooling off during the evening hours as is typical this time of year. Without nighttime cooling, the river retains the heat introduced to it during the daytime hours, both upstream and downstream.

The station does not currently have temperature probes installed upriver of its intake because the Permit does not require upstream monitoring in the winter months, and, due to concerns with icing, the probes are typically removed in winter to avoid breakage. However, the temperature data that do exist show that the river temperature at the intake has been exceeding the monthly maximum temperature standards due to naturally occurring abnormally high ambient river temperatures for the month of March.

As a result of these record breaking conditions, Braidwood Station began using excursion hours on Monday, March 19, 2012 at 02:00 A.M when upstream river temperature was 67.5°F . That temperature exceeds both the 60°F non-excursion hour monthly maximum standard for March and the 63°F excursion hour limit. At that time, the water temperature at the edge of the Braidwood mixing zone was 67.9°F, which represents a 0.4°F temperature rise above ambient with both Units operating. As of 08:00 on March 20, 2012, Braidwood Station accumulated 30.0 excursion hours due to the recent record breaking warm weather.

Relief Requested

Due to the unseasonably warm weather, Braidwood Station is requesting relief from NPDES Permit Special Condition 3B, which requires river temperatures at the edge of the mixing zone for the month of March not to exceed 60 degrees F during non-excursion hour episodes and 63 degrees F when excursion hours are being used. The provisional variance request is predicated upon the recent ambient Kankakee River water temperatures that exceed the monthly maximum standards for March. Specifically, Exelon requests a provisional variance that would allow Braidwood to cause temperatures at the edge of the mixing zone to increase by no more than 3° F above ambient temperatures for up to 286.7 hours. The term of the provisional variance would be effective from March 22 thru March 31, 2012.

Necessity for Request

When the ambient river temperatures exceed the non-excursion hour limits, the Station has no option other than to use excursion hours, and once its allotment of excursion hours is depleted, the Station must significantly derate or cease operating altogether to maintain compliance with the NPDES Permit. Adding cooling facilities (such as cooling towers) will not allow the Station to achieve compliance with a limit that already is exceeded even before any heat is added as a result of Station operations.

Based on current weather forecasts it is expected that the Station will likely consume a large percentage of its permitted excursion hours before Tuesday afternoon, March 20, 2012. Therefore, unless relief is granted by way of this provisional variance request, it is likely that the Station will be forced to shut down for correspondingly significant durations. Shutting down or significantly derating a base-loaded nuclear power plant such as Braidwood could jeopardize the stability of the electrical grid (and availability/reliability of electricity in the region), particularly if other plants are required to shut down or derate due to the unusual weather conditions being experienced. With both units offline and not immediately able to return to service, Braidwood Stations would not be available to support the voltage requirements that could occur under changing grid conditions.

Assessment of Environmental Impacts

Because Braidwood is not proposing to increase cooling water flows, there will be no increase in impingement or entrainment as a result of the issuance of the requested Provisional Variance. Additionally, because the ambient river temperature increase has been gradual, resident fish species have either acclimated to the higher temperature or have found thermal refuge. In addition, the current flows afford a delta T of approximately 1°F between the upstream and downstream Kankakee River temperatures. Therefore, resident fish species will not be subject to any heat shock as a result of granting the requested Provisional Variance.

Alternatives to Requested Relief

Historically, Braidwood Station has not used excursion hours during periods of extreme heat and low-river flows experienced in the summer at which time additional thermal probes and monitoring are incorporated with station procedures to mitigate the effects of extreme heat. These actions in addition to procedure evaluation will be evaluated to define preemptive action initiation to prevent future noncompliance during periods of non-seasonal extreme heat. The problem that Braidwood Station is facing is caused by extreme summer like temperatures during the month of March, which is causing heating of Kankakee River water and thereby increasing ambient river conditions higher than what is allowed by the NPDES Permit. Unless a provisional variance is issued, when the Station runs out of hours, it will have to shut down during all times that the ambient river temperatures are at or above the non-excursion hour limit. Based on river temperatures projections through the end of March, it is likely that there will be a number of extended periods during which ambient river temperatures will be at or above these limits. As previously explained neither the option of derating the units nor of obtaining additional temporary cooling capacity will allow the Station to maintain compliance if the ambient river temperatures are exceeding the applicable temperature limits. The only option is for the Station to shut down once the ambient river temperatures meet or exceed the NPDES permitted monthly limit.

Without the power that Braidwood Station could generate as a result of the requested provisional variance, depending on the operating status of other generating stations in the area, Braidwood Station continued operation may be essential for voltage support for the Commonwealth Edison Company and Mid American Transmission systems, which includes Illinois and portions of Iowa.

Mitigative Actions to be Taken During the Variance Period

During the period when the Station uses any additional excursion hours authorized by the requested provisional variance, Braidwood Station will do the following: (1) continuously monitor the intake and discharge temperatures and assess water temperatures at the edge of the mixing zone using the NPDES Permit temperature monitoring curve or field measurements; (2) on a daily basis, inspect the intake and discharge areas to assess any mortalities to aquatic life, and report the results of these monitoring activities to the Agency within 30 days of the expiration of the provisional variance (or such other time as agreed upon by the Agency); and (3) notify the Agency of any significant adverse environmental conditions observed that might be caused by operations authorized by the provisional variance, including mortalities to fish or other aquatic life, investigate the cause of such conditions, provide the Agency updates regarding the situation, including when normal conditions return, and submit a report to the Agency regarding these matters within 30 days of the expiration of the provisional variance period (or such other time as agreed upon by the Agency).

Summary

For the reasons stated above, Exelon requests a provisional variance for relief from Special Condition 3B from March 22 thru March 31, 2012 which would allow Braidwood to cause temperatures at the edge of the mixing zone to increase by no more than 3°F for up to 286.7 hours. It is Exelon's position that not granting this provisional variance would impose an arbitrary and unreasonable hardship.

If you should have any questions regarding these matters, please feel free to contact Jamison Rappeport at (815) 417-3200 or Whitney Kullman at (815) 417-3257 from Braidwood Station or John Petro, Principal Environmental Analyst, Exelon Generation at (630) 657-3209.

Respectfully,

Mark Kanavos
Plant Manager
Braidwood Station

Roubitchek, Mike

From:	john.petro@exeloncorp.com
Sent:	Thursday, March 22, 2012 7:28 AM
To:	Roubitchek, Mike; jamison.rappeport@exeloncorp.com; Whitney.Kullman@exeloncorp.com
Cc:	Frederic.Bevington@exeloncorp.com; sharon.neal@exeloncorp.com; Zigmund.Karpa@exeloncorp.com; abielawski@sidley.com
Subject:	Draft PV - Exelon Braidwood
Attachments:	Exelon Braidwood PV Rev 1.doc

Mike:

Good morning!

The attached draft PV has been track changed with comments from Braidwood Station. As you will see, all of the changes are simply editorial and or clarifications. The one exception is that Braidwood has asked to do the river checks at the make-up and blowdown twice per day rather than three time per day. The rationale for this change request is because Braidwood Staff is working twelve hour shifts.

Also, the answers to your two additional questions follow:

Agency Question #1: Is Braidwood currently out of excursion hours? If so, the draft I sent you can stay as-is. If not, then we need to change the effective date of the Provisional Variance to the time that Braidwood notifies us that its excursion hours have been exhausted. Braidwood's concern is the revised temperature limit increase from 60 degrees F to 70 degrees F. When Braidwood initiates blowdown, we will be in non-compliance space with the maximum permit limit of 63 degrees F (60 degree limit plus 3 degrees F) due to the elevated ambient river temperature (which was 68.6 degrees F on 3/21). If Braidwood is not granted a Provisional Variance effective date at the start time of blowdown (at which time excursion hours will not be exhausted), Braidwood will accrue a second non-compliance for exceeding the 63 degree F limit.

Braidwood Answer #1: Braidwood used 1 excursion hour prior to experiencing permit non-compliance and continued to used excursion hours while in non-compliance. In total Braidwood used 25 excursion hours prior to securing blowdown.

Agency Question #2: We need a more understandable justification as to the hardship that blowdown has on the plant. See the e-mail you sent to Roger Callaway at 1:12pm today. We need this expressed more in "layman's" terms as opposed to engineer terms.

Braidwood Answer #2: Blowdown helps equalize the cooling lake level. Extended periods of time with isolated blowdown can cause the cooling lake level to rise. This rise occurs because the cooling lake is accepting water from the river (an input pathway) while the cooling lake ceases to release water through blowdown (which is isolated to prevent noncompliance with the NPDES permit). Rain and runoff can also impose additional level input to the cooling lake. This rise in cooling lake level can pose a risk to the outlying perimeter (exterior dikes) of the lake in addition to becoming an operational challenge to maintain cooling lake level. Additionally, the cooling lake can become chemically concentrated with

Roubitchek, Mike

From: Tonsor, Connie L.
Sent: Wednesday, March 21, 2012 1:28 PM
To: Roubitchek, Mike
Subject: FW: IEPA Question on Braidwood PV Submittal

I have asked for an explanation in English for a 4th grader, not in "engineer" for a nuclear plant.

From: Callaway, Roger
Sent: Wednesday, March 21, 2012 1:14 PM
To: Willhite, Marcia; Sofat, Sanjay; Tonsor, Connie L.
Subject: FW: IEPA Question on Braidwood PV Submittal

Answer to the Braidwood question.

From: john.petro@exeloncorp.com [mailto:john.petro@exeloncorp.com]
Sent: Wednesday, March 21, 2012 1:12 PM
To: Callaway, Roger
Subject: FW: IEPA Question on Braidwood PV Submittal

See Braidwood answer below.

Subject: RE: IEPA Question on Braidwood PV Submittal

See our answer below

Question: Since Braidwood has used only 30 of their allotted 87.6 excursion hours, can you make it to April 1st with your blowdown secured, and if not, why not? In other words, describe the hardship that securing the blowdown has on the plant.

Cooling lake health is maintained through the river make-up and the blowdown discharge. Cooling lake health is essential for cooling critical plant components and maintaining environmental equilibrium during warm weather cycling of the lake. Cooling lake health would be reduced without adequate blowdown.

Liquid effluent releases would be halted which will affect the water inventory and water processing that is required for the station's April outage preparations.

Continued blowdown isolation will cause the cooling pond level to rise. The station is challenged to maintain the level within operational design criteria. Severe weather events (i.e. significant precipation) can impose additional lake level inputs and additional hydraulic burden on the pond's exterior dikes. (i.e. potential compromise of dike integrity).

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State of Illinois
ENVIRONMENTAL PROTECTION AGENCY

Mary A. Gade, Director

2200 Churchill Road, Springfield, IL 62794-9276

217/782-0610

August 24, 1995

Commonwealth Edison Company
Post Office Box 767, 35 FNW
Chicago, Illinois 60690-0767

Re: Commonwealth Edison Company
Braidwood Power Station
NPDES Permit No. IL0048321
Final Reissued Permit

Gentlemen:

Attached is the final Reissued NPDES Permit for your discharge. The Permit as Issued covers discharge limitations, monitoring, and reporting requirements. The failure of you to meet any portion of the Permit could result in civil and/or criminal penalties. The Illinois Environmental Protection Agency is ready and willing to assist you in interpreting any of the conditions of the Permit as they relate specifically to your discharge.

The following revisions were made to the permit after public notice, based on your comments:

1. Sub-wastestream #6 of Outfall 001 was corrected to read Demineralizer Regenerant Waste Drains.

2. Portable Demineralizer Regenerant Wastes was listed as a sub-wastestream of Outfall 001(d).

3. Parts B and C of Special Condition 8 were removed, since they have been completed.

The Permit as issued is effective as of the date indicated on the first page of the Permit. You have the right to appeal any condition of the Permit to the Illinois Pollution Control Board within a 30 day period following the issuance date.

SCREENED

Printed on Recycled Paper

Should you have any questions please contact Darin E. LeCrone at the telephone number indicated above.

Very truly yours,

Thomas G. McSwiggin,P.E.
Manager, Permit Section
Division of Water Pollution Control

TGM:SFN:DEL:fnnpd.doc

Attachment: Final Modified Permit

cc: Records
CAS
USEPA
Maywood Region
NIPC

SCREENED

NPDES Permit No. IL0048321

Illinois Environmental Protection Agency

Division of Water Pollution Control

2200 Churchill Road

Post Office Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Reissued (NPDES) Permit

Expiration Date: September 1, 2000

Issue Date: August 24, 1995
Effective Date: September 1, 1995

Name and Address of Permittee:

Commonwealth Edison Company
Post Office Box 767, 35 FNW
Chicago, Illinois 60690-0767

Facility Name and Address:

Commonwealth Edison Company
Braidwood Nuclear Power Station
Rural Route #1, Box 84
Braceville, Illinois 60407
(Will County)

Discharge Number and Name:
No. 001 Cooling Pond Blowdown Line
No. 001(a) Wastewater Treatment Plant Effluent
No. 001(b) Sewage Treatment Plant Effluent
No. 001(c) Radwaste Treatment System Effluent
No. 001(d) Demineralizer Regenerant Wastes
No. 001(e) Intake Screen Backwash

Receiving Waters:
Kankakee River

No. 002 North Site Stormwater Runoff Basin
No. 003 South Site Stormwater Runoff Basin
No. 004 Switchyard Area Runoff

Mazon River

In compliance with the provisions of the Illinois Environmental Protection Act, Subtitle C, Rules and Regulations of the Illinois Pollution Control Board, and the FWPCA the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) not later than 180 days prior to the expiration date.

Thomas G. McSwiggin, P.E.
Manager, Permit Section
Division of Water Pollution Control

TGM:DEL:jab/sp416E

SCREENED

NPDES Permit No. IL0048321

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day 30 DAY AVG.	LOAD LIMITS lbs/day DAILY MAX.	CONCENTRATION LIMITS mg/l 30 DAY AVG.	CONCENTRATION LIMITS mg/l DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE

1. From the effective date of this permit until September 1, 2000, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001 Cooling Pond Blowdown Line*

This discharge consists of:	Approximate Flow
1. Condenser cooling water	11.31 MGD
2. House service water	1.3 MGD
3. Essential service water	1.3 MGD
4. Demineralizer regenerant waste	0.028 MGD
5. Wastewater treatment plant effluent	0.079 MGD
6. Radwaste treatment system effluent	0.032 MGD
7. House service water strainer backwash	0.03 MGD
8. Essential service water strainer backwash	0.017 MGD
9. Sewage treatment plant effluent	0.017 MGD
10. Water treatment system filter backwashes	0.03 MGD
11. River intake screen backwash	0.112 MGD
12. Cooling pond intake screen backwash	0.4 MGD

Flow				Daily	Continuous
pH	See Special Condition No. 1			1/Week	Grab
Temperature	See Special Condition No. 3			Daily	Continuous
Total Residual Chlorine			0.2	1/Month	Grab**

*See Special Condition No. 13
**See Special Condition No. 5

SCREENED

NPDES Permit No. IL0048321

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day 30 DAY AVG.	LOAD LIMITS lbs/day DAILY MAX.	CONCENTRATION LIMITS mg/l 30 DAY AVG.	CONCENTRATION LIMITS mg/l DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE

1. From the effective date of this permit until September 1, 2000, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001(a) Wastewater Treatment Plant Effluent

This discharge consists of:	Approximate Flow
1. Turbine building fire and oil sump*	0.079 MGD
a. Turbine building floor drain tank*	
i. Turbine building floor drain sumps ii. Essential service water drain sumps iii. Condensate pit sumps	
b. Turbine building equipment drain tank*	
c. Units 1 and 2 tendon tunnel sumps	
d. Auxiliary boiler blowdown	
e. Units 1 and 2 diesel fuel storage tank sumps	
f. Oil-water separator No. 1 effluent	
g. Secondary-Side Drain Water	
2. Water treatment area floor and equipment drain sumps	Intermittent
3. Water treatment lime-softening clarator blowdown	Intermittent
4. Wastewater treatment system sand filter backwash	0.002 MGD
5. Condensate polisher regenerant wastes (Alternate Route)	Intermittent
6. Demineralizer Regenerant Waste Drains (Alternate Route)	Intermittent

Flow			Daily	24 Hour Total
Total Suspended Solids	15.0	30.0	1/Week	24 Hour Composite
Oil and Grease	15.0	20.0	1/Week	Grab

*These wastestreams may be directed to the Radwaste Treatment System depending on the results of the process radiation monitors.

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NPDES Permit No. IL0048321

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day 30 DAY AVG.	LOAD LIMITS lbs/day DAILY MAX.	CONCENTRATION LIMITS mg/l 30 DAY AVG.	CONCENTRATION LIMITS mg/l DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE

1. From the effective date of this permit until September 1, 2000, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001(b) Sewage Treatment Plant Effluent**

Approximate Flow 0.017 MGD (DMF 0.078 MGD)

Flow					Daily	Continuous
pH	See Special Condition No. 1				1/Week	Grab
Total Suspended Solids	19.5	39.0	30.0	60.0	1/Week	24 Hour Composite
BOD_5	19.5	39.0	30.0	60.0	1/Week	24 Hour Composite
Fecal Coliform	See Special Condition No. 4				1/Week	Grab

Outfall(s): 001(c) Radwaste Treatment System Effluent

This discharge consists of: Approximate Flow: 0.032 MGD

1. Steam generator condensate blowdown	Intermittent
2. Cooling jacket blowdown	Intermittent
3. Auxiliary building and turbine building floor drains	Intermittent
4. Laundry waste treatment system drains	0.001 MGD
5. Chemical and volume control system drains	Intermittent
6. Boron recycle system blowdown	Intermittent
7. Radwaste demineralizer regenerant wastes and filter backwash	0.002 MGD
8. Reactor building floor and equipment drains	Intermittent
9. Turbine building floor drain tank (Alternate Route)	Intermittent
10. Turbine building fire and oil sump (Alternate Route)	Intermittent
11. Turbine building equipment drain tank (Alternate Route)	Intermittent
12. Evaporator wastewater	Intermittent

Flow				Daily	Continuous
Total Suspended Solids		15.0	30.0	1/Week	Discharge Tank Composite
Oil and Grease		15.0	20.0	1/Week	Grab

**Outfall No. 001(b) Sewage Treatment Plant Effluent will normally be discharged to the Kankakee River via the cooling pond blowdown line. The existing outfall to the Mazon River will be maintained as an emergency backup. The permittee shall give notice to the Agency of any emergency discharge to the Mazon River. Applicable effluent limitations shall apply.

SOLE-MET

NPDES Permit No. IL0048321

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day 30 DAY AVG.	LOAD LIMITS lbs/day DAILY MAX.	CONCENTRATION LIMITS mg/l 30 DAY AVG.	CONCENTRATION LIMITS mg/l DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE

1. From the effective date of this permit until September 1, 2000, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001(d) Demineralizer Regenerant Wastes

This discharge consists of

Approximate Flow
0.028 MGD

1. Make-up demineralizer regenerant waste***
2. Condensate polisher regenerate waste***
3. Regenerant chemical area drains
4. Portable Demineralizer Regenerant Wastes

Flow			Daily	Continuous
Total Suspended Solids	15.0	30.0	1/Week	8 Hour Composite

***This wastestream may be alternately routed to the wastewater treatment system.

Outfall(s): 001(e) River Intake Screen Backwash

There shall be no discharge of collected debris.

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NPDES Permit No. IL0048321

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day 30 DAY AVG.	LOAD LIMITS lbs/day DAILY MAX.	CONCENTRATION LIMITS mg/l 30 DAY AVG.	CONCENTRATION LIMITS mg/l DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE

1. From the effective date of this permit until September 1, 2000, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 002 North Site Stormwater Runoff Basin

This discharge consists of:	Approximate Flow:
1. Parking lot runoff	Intermittent
2. Transformer area runoff	Intermittent
3. North station area runoff	Intermittent
4. Turbine building, auxiliary building and waste treatment building roof drains	Intermittent

See Special Condition No. 9

Outfall(s): 003 South Site Stormwater Runoff Basin

Approximate Flow

Intermittent

See Special Condition No. 9

Outfall(s): 004 Switchyard Area Runoff

Approximate Flow

Intermittent

See Special Condition No. 9

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NPDES Permit No. IL0048321

Special Conditions

SPECIAL CONDITION 1. The pH shall be in the range 6.0 to 9.0.

SPECIAL CONDITION 2. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge, but prior to entry into the receiving stream.

SPECIAL CONDITION 3. Discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by Section 302.211, Illinois Administration Code, Title 35, Chapter 1, Subtitle C, as amended:

A. Maximum temperature rise above natural temperature must not exceed 5°F (2.8°C).

B. Water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one (1) percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 3°F (1.7°C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures of the main flow of the river.)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
°F	60	60	60	90	90	90	90	90	90	90	90	60
°C	16	16	16	32	32	32	32	32	32	32	32	16

SPECIAL CONDITION 4. The daily maximum fecal coliform count shall not exceed 400 per 100 ml.

SPECIAL CONDITION 5. Total residual chlorine may not be discharged from each units main cooling condensers for more than two hours in any one day.

A. The reported mean concentration and maximum concentration of Total Residual Chlorine shall be based on a minimum of three grab samples taken at approximately five minute intervals at Outfall 001. The detection limit shall be $\leq$ 0.05 mg/l TRC. The time samples were collected, the time and duration of the chlorine dosing period plus the amount of chlorine applied shall be reported. The reported average concentration of Total Residual Chlorine is the average of all values measured for the sampling event and the reported maximum concentration is the highest value measured for a single grab sample.

SPECIAL CONDITION 6. There shall be no discharge of polychlorinated biphenyl compounds.

SPECIAL CONDITION 7. There shall be no discharge of complexed metal bearing wastestreams or associated rinses from chemical metal cleaning unless this permit has been modified to include the new discharge.

SPECIAL CONDITION 8.

A. Intake impacts will be reduced by limiting pumping from the river during the peak entrainment period. For a four-week period (last three weeks in May and first week in June), pumping will be allowed only during the day (between one hour after sunrise and one hour before sunset). In addition, during the four-week period, pumping will be minimized during the day. Pumping will occur when needed to fill the freshwater holding pond and to maintain efficient operation of the cooling pond. In an extreme emergency, and upon immediate notification of the Agency, pumping could occur at night. Such pumping would cease as soon as the emergency was over. Records of all pumping during the four-week period will be maintained. Such records will include dates, number of pumps operating and start and end times.

SPECIAL CONDITION 9

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

A. A storm water pollution prevention plan shall be developed by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.

SCPSP

Special Conditions

B. The plan shall be completed within 180 days of the effective date of this permit. Plans shall provide for compliance with the terms of the plan within 365 days of the effective date of this permit. The owner or operator of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request. [Note: If the plan has already been developed and implemented, it shall be maintained in accordance with all requirements of this special condition.]

C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.

D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph G of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within the shortest reasonable period of time, and shall be provided to the Agency for review upon request.

E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:

1. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.

2. A site map showing:

   i. The storm water conveyance and discharge structures;

   ii. An outline of the storm water drainage areas for each storm water discharge point;

   iii. Paved areas and buildings;

   iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.

   v. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);

   vi. Surface water locations and/or municipal storm drain locations

   vii. Areas of existing and potential soil erosion;

   viii. Vehicle service areas;

   ix. Material loading, unloading, and access areas.

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3. A narrative description of the following:

   i. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;

   ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;

   iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;

   iv. Industrial storm water discharge treatment facilities;

v. Methods of onsite storage and disposal of significant materials;

4. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities.

5. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.

6. A summary of existing sampling data describing pollutants in storm water discharges.

F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:

1. Storm Water Pollution Prevention Personnel - Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.

2. Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.

3. Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.

4. Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill clean up equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.

5. Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:

i. Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff;

ii. Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges;

iii. Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges;

iv. Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.

v. Storm Water Diversion - Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination;

vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.

6. Sediment and Erosion Prevention - The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion and describe measures to limit erosion.

7. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.

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8. Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.

G. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.

H. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated thereunder, and Best Management Programs under 40 CFR 125.100.

I. The plan is considered a report that shall be available to the public under Section 308(b) of the CWA. The permittee may claim portions of the plan as confidential business information, including any portion describing facility security measures.

J. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.

REPORTING

K. The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part G of the Storm Water Pollution Prevention Plan of this permit. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s).

L. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.

M. Annual inspection reports shall be mailed to the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
Annual Inspection Report
2200 Churchill Road
P.O. Box 19276
Springfield, Illinois 62794-9276

N. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

SPECIAL CONDITION 10. Discharge of station cooling pond water to adjacent impoundments owned by the permittee, to replace water which is withdrawn from these impoundments for station operations during periods of low flows in the Kankakee River when the station must decouple its operations from the river, is hereby permitted for these emergency periods. No monitoring is required for this permitted activity. The IEPA shall be promptly notified during such operations.

SPECIAL CONDITION 11. The permittee shall record monitoring results on Discharge Monitoring Report Forms using one such form for each discharge each month.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 28th of the following month, unless otherwise specified by the the permitting authority.

SUPERSEDED

NPDES Permit No. IL0048321

Special Conditions

Discharge Monitoring Reports shall be mailed to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
2200 Churchill Road
Springfield, Illinois 62706

Attention: Compliance Assurance Section

SPECIAL CONDITION 12. The "upset" defense provisions of Title 40, Section 122.41(n) of the Federal Regulations are hereby incorporated into this permit by reference.

SPECIAL CONDITION 13. An emergency cooling pond overflow exists tributary to an unnamed drainage ditch which is tributary to the Mazon River. Discharges from this overflow shall be subject to the bypass provisions of 40 CFR 122.41(m).

SPECIAL CONDITION 14. This permit does not authorize the use of bromine-based biocides. If the permittee notifies the Agency, pursuant to Standard Condition 12 or 14, of its intent to use bromine-based biocides, this permit may be modified to incorporate different TRC/TRH limitations or restrictions on the use of bromine-based biocides based on the results of biomonitoring or other bromine toxicity data which becomes available to the Agency. Such modification shall follow public notice and opportunity for hearing.

SPECIAL CONDITION 15. The permittee shall submit a completed Form 2F as soon as conditions allow, for Outfall 002 and Outfall 003. Based on the new information the Agency may choose to modify the permit after public notice and opportunity for hearing.

ATTACHMENT H

Standard Conditions

Definitions

Act means the Illinois Environmental Protection Act, Ch. 111 1/2 ⊞ Rev. Stat., Sec. 1001-1051 as Amended.

Agency means the Illinois Environmental Protection Agency.

Board means the Illinois Pollution Control Board.

Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) means Pub. L. 92-500, as amended. 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA means the United States Environmental Protection Agency.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Aliquot means a sample of specified volume used to make up a total composite sample.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

24 Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8 Hour Composite Sample means a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8-hour period.

Flow Proportional Composite Sample means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

(1) Duty to comply. The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

(2) Duty to reapply. If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.

(3) Need to halt or reduce activity not a defense. It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(4) Duty to mitigate. The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

(5) Proper operation and maintenance. The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with the conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the permit.

(6) Permit actions. This permit may be modified, revoked and reissued, or terminated for cause by the Agency pursuant to 40 CFR 122.62. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or a notification of planned changes or anticipated noncompliance, does not stay any permit condition.

(7) Property rights. This permit does not convey any property rights of any sort, or any exclusive privilege.

(8) Duty to provide information. The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency, upon request, copies of records required to be kept by this permit.

(9) Inspection and entry. The permittee shall allow an authorized representative of the Agency, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of this permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under this permit; and

(d) Sample or monitor at reasonable times, for the purposes of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.

(10) Monitoring and records.

(a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(b) The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by this permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. This period may be extended by request of the Agency at any time.

(c) Records of monitoring information shall include:

(1) The date, exact place, and time of sampling or measurements;

(2) The individual(s) who performed the sampling or measurements;

(3) The date(s) analyses were performed;

(4) The individual(s) who performed the analyses;

(5) The analytical techniques or methods used; and

(6) The results of such analyses.

(d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method for approval. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

(11) Signatory requirement. All applications, reports or information submitted to the Agency shall be signed and certified.

(a) Application. All permit applications shall be signed as follows:

(1) For a corporation: by a principal executive officer of at least the level of vice president or a person or position having overall responsibility for environmental matters for the corporation;

(2) For a partnership or sole proprietorship: by a general partner or the proprietor, respectively; or

(3) For a municipality, State, Federal, or other public agency: by either a principal executive officer or ranking elected official.

(b) Reports. All reports required by permits, or other information requested by the Agency shall be signed by a person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described in paragraph (a), and

(2) The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility, and

(3) The written authorization is submitted to the Agency.

AMENDED

(c) Changes of Authorization. If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.

(12) Reporting requirements.

(a) Planned Changes. The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility.

(b) Anticipated noncompliance. The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(d) Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.

(1) Monitoring results must be reported on a Discharge Monitoring Report (DMR).

(2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

(3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.

(e) Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24 hours:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit to be reported within 24 hours;

The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

(f) Other noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs (12)(c), (d), or (e), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12)(e).

(g) Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.

(13) Transfer of permits. A permit may be automatically transferred to a new permittee if:

(a) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;

(b) The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittees; and

(c) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.

(14) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:

(a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 ug/l);

(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or

(4) The level established by the Agency in this permit.

(b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.

(15) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:

(a) Any new introduction of pollutants into that POTW from an indirect discharger which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and

(b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

(c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

(16) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:

(1) User charges pursuant to Section 204(b) of the Clean Water Act, and applicable regulations appearing at 40 CFR 35;

(2) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and

(3) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act.

(17) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.

(18) Any authorization to construct issued to the permittee pursuant to 35 Ill. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.

(19) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.

(20) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed $10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, or 308 of the Clean Water Act is subject to a fine of not less than $2,500, nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both.

(21) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(22) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit shall, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(23) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.

(24) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.

(25) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board.

(26) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.

(Rev. 12-1-88)

(c) Changes of Authorization. If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.

(12) Reporting requirements.

(a) Planned Changes. The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility.

(b) Anticipated noncompliance. The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) Compliance schedules. Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(d) Monitoring reports. Monitoring results shall be reported at the intervals specified elsewhere in this permit.

(1) Monitoring results must be reported on a Discharge Monitoring Report (DMR).

(2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

(3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.

(e) Twenty-four hour reporting. The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and times; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24 hours:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit to be reported within 24 hours;

The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

(f) Other noncompliance. The permittee shall report all instances of noncompliance not reported under paragraphs (12)(c), (d), or (e), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12)(e).

(g) Other information. Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.

(13) Transfer of permits. A permit may be automatically transferred to a new permittee if:

(a) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;

(b) The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittees; and

(c) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.

(14) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:

(a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 ug/l);

(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6-dinitrophenol; and one milligram per liter (1 mg/l) for antimony;

(3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or

(4) The level established by the Agency in this permit.

(b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.

(15) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:

(a) Any new introduction of pollutants into that POTW from an indirect discharger which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and

(b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

(c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

(16) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:

(1) User charges pursuant to Section 204(b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;

(2) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and

(3) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act.

(17) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.

(18) Any authorization to construct issued to the permittee pursuant to 35 Ill. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.

(19) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.

(20) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed $10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, or 308 of the Clean Water Act is subject to a fine of not less than $2,500, nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both.

(21) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(22) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit shall, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(23) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.

(24) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.

(25) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board.

(26) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.

SCANNED

Braidwood Environmental Audit – Request for Additional Information Response

Question #: SW-8 Category: Surface Water

Statement of Question:

In light of excessive cooling pond temperatures experienced during July 2012, provide a discussion and any relevant information as to whether a warming trend has been observed in the cooling pond during the period of plant operations. Provide any study(s) or data that support the conclusions reached (e.g., mean annual, seasonal, and/or monthly water temperature trend for the period of record). Also, describe any measures that Exelon has taken or plans to take to mitigate the impact of high cooling pond temperatures on plant operations.

Response:

The temperature data in Tables 1 and 2 in the response to Request for Additional Information SW-5 provide average and maximum measured temperatures in the Braidwood cooling pond based on grab samples taken several times a week in front of the trash racks at the lake screen house during the period from 2004 through 2013. The three years with the highest average annual temperature in decreasing order are 2010 (21.8 °C), 2005 (21.2 °C), and 2012 (20.8 °C). The three years with the lowest average annual temperature, listed in increasing order are 2007 (19.1 °C), 2009 (19.6 °C), and 2004 (19.7 °C). Based on assessments using cumulative moving average and simple moving median calculations, no obvious upward trends in annual average or maximum annual cooling pond temperatures were observable for this data set.

Although, in response to extreme weather events during recent years, Exelon Generation is evaluating options for managing the occurrence of unusually high cooling pond temperatures, no decisions about long term future mitigative actions have been made.

List Attachments Provided:

None

Braidwood Environmental Audit – Request for Additional Information Response

Question #: SW-9 Category: Surface Water

Statement of Question:

Provide the application for Clean Water Act Section 401 Certification referenced in Exelon's letter to the I EPA dated May 18, 2012.

Response:

The requested document is attached.

List Attachments Provided:

1. Joint Application Form for Clean Water Act Section 401 Certification related to Renewal of U.S. Nuclear Regulatory Commission Operating Licenses NPR-72 and NPF-77 for Braidwood Station Units 1 & 2, May 18, 2012

JOINT APPLICATION FORM

1. Application Number (to be assigned by Agency)	2. Date	3. For agency use only (Date Received)
	18 May 2012 Day Month Year	

4. Name and address of applicant
Exelon Corporation
Braidwood Generating Station
35100 S. Rt. 53 Suite 84
Braceville, IL 60407

(815) 417-2000
( )

5. Name, address, and title of authorized agent
John R. Petro
Principal Environmental Specialist
Exelon Generation Co,. LLC
4300 Winfield Rd
Warrenville, IL 60555

Telephone no. during business hours include area code (630) 657-3209
(312) 813-5916

6. Project Description and Remarks: Describe in detail the proposed activity, its purpose, and intended use. Also indicate the drainage area at the watershed to the downstream limit. Use attachments if needed.

See attached "6.0 Project Description" (pages 5 through19)

7. Names, addresses, and telephone numbers of all adjoining and potentially affected property owners, including the owner of the subject property if different from applicant.

See attached "7.0 Exelon Braidwood Generating Station License Renewal Adjacent Property Owners" (pages 20 through 29)

8. Location of activity

Kankakee River / Mazon River
Name of waterway at location of the activity

Address: 35100 South Rt 53
Street, road, or other descriptive location

Braceville, IL 60407
In or near city or town

Will
County

Legal Description: See attached "8.0 Legal Description" (page 30)

1/4 Sec Twp. Rge P.M.

UTM (Universal Transverse Mercator): If available

Zone North East

Braidwood and Custer Park
Name of Local Governing Community

IL
State

60481
Zip Code

9. Date activity is proposed to commence Ongoing Estimated Time of Construction Not applicable

10. Is any portion of the activity for which authorization is sought now complete? Yes No X If answer is "Yes" give reasons in item 6.

Month and Year the activity was completed Not applicable Indicate the existing work on drawings.

11. List all approvals or certifications required by other federal, interstate, state, or local agencies for any structures, construction, discharges, deposits, or other activities described in this application. If this form is being used for concurrent application to the Corps of Engineers, Illinois Department of Natural Resources, and Illinois Environmental Protection Agency, these agencies need not be listed.

Issuing Agency	Type of Approval	Identification No.	Date of Application	Date of Approval
U. S. Nuclear Regulatory Commission	Units 1 and 2, Op. Licenses Renewal	NPF-72 and NPF-77	May 2013	March 2015

12. Has any agency denied approval for the activity described herein or for any activity directly related to the activity described herein?	Yes		No	X	(If "Yes", explain in item 6.)

13. Application is hereby made for authorizations of the activities described herein. I certify that I am familiar with information contained in the application, and that to the best of my knowledge and belief, such information is true, complete, and accurate. I further certify that I possess the authority to undertake the proposed activities.

Signature of Applicant or Authorized Agent

Michael P. Gallagher – Vice President, License Renewal
Typed or Printed Name of Applicant or Authorized Agent

NCR FORM 426
08 AUG 02 ☐ CORPS OF ENGINEERS COPY ☐ IDNR/OWR COPY ☐ IEPA COPY ☐ APPLICANT'S COPY

PROJECT DESCRIPTION

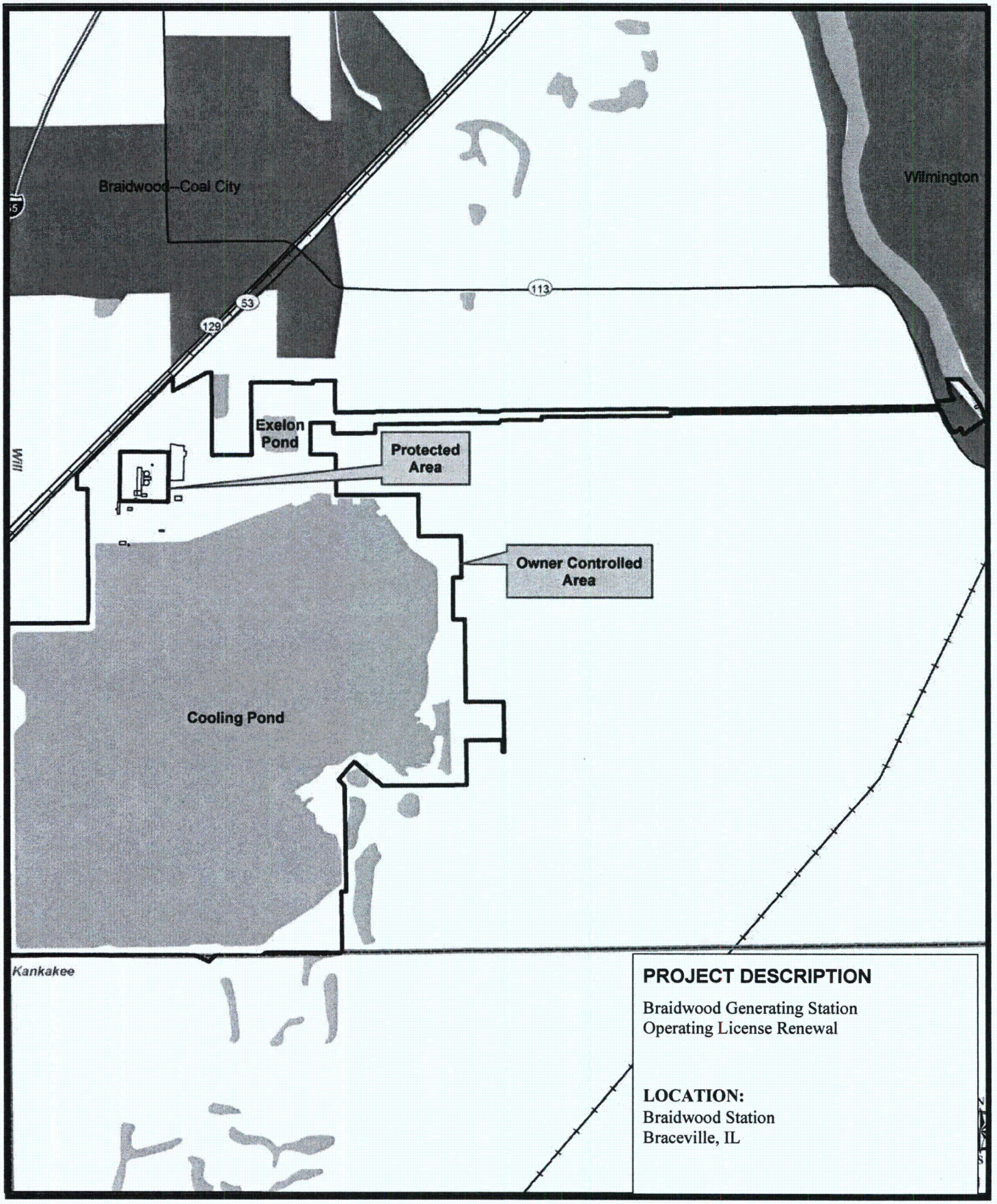
Braidwood Generating Station
Opereating License Renewal

LOCATION:
Braidwood Station
Braceville, IL

PROJECT DESCRIPTION

Braidwood Generating Station
Operating License Renewal

LOCATION:
Braidwood Station
Braceville, IL



NCR FORM 426
08 AUG 02

SHEET 4 OF 4

☐ CORPS OF ENGINEERS COPY ☐ IDNR/OWR COPY ☐ IEPA COPY ☐ APPLICANT'S COPY

6.0 Braidwood Project Description

6.1 Proposed Project

The project is the proposed renewal by the U.S. Nuclear Regulatory Commission (NRC) of the Braidwood Generating Station (Braidwood) Units 1 and 2 operating licenses for 20 additional years beyond the currently licensed terms. No operational changes that would alter discharges or discharge pollutant loads from the Braidwood units during the extended operating terms would result from license renewal. Also, no construction is being proposed in connection with the license renewals.

The NRC authorizes the operation of domestic nuclear power plants in accordance with the Atomic Energy Act of 1954, as amended, and NRC implementing regulations. Nuclear power plants are initially licensed by the NRC to operate up to 40 years, but these licenses may be renewed in accordance with NRC's regulation 10 CFR 50.51 for periods of up to 20 additional years, as indicated in 10 CFR 54.31. Exelon Generation, LLC (Exelon) operates Braidwood pursuant to NRC Operating Licenses NPF-72 (Unit 1) and NPF-77 (Unit 2). The existing license for Braidwood Unit 1 will expire on October 17, 2026; the existing license for Unit 2 will expire on December 18, 2027. Exelon is seeking to renew the Braidwood operating licenses for Units 1 and 2 until 2046 and 2047, respectively.

Braidwood discharges to the Kankakee River are currently regulated by National Pollutant Discharge Elimination System (NPDES) permit IL0048321 issued by the Illinois Environmental Protection Agency (IEPA) in August 1995 and modified in August 1997. The permit was issued with a September 1, 2000 expiration date. However, a timely and complete NPDES permit renewal application was filed on February 29, 2000 — 180 days prior to the expiration date. Therefore, in accordance with IEPA regulations (Illinois Administrative Code (IAC) Title 35, §309.104), the permit continues in effect until a new, final permit is issued by IEPA. The NPDES permit IL0048321 and the 2000 renewal application are provided as Attachments 1 and 2 to this application, respectively. Discharges from Braidwood Units 1 and 2 are subject to the effluent limits and conditions specified in this permit, which may be renewed or modified from time to time.

Since submitting the NPDES permit renewal application on February 29, 2000, several administrative, operational, and physical changes have occurred at Braidwood that will also be taken into account when a new, final permit is issued. Attachment 3 to this application contains a letter from Exelon to IEPA dated February 29, 2012 that forwards a list of the documents that are on file at Exelon and with the Agency describing these changes.

6.2 Plant Description

Figure 6-1 shows the Braidwood site. The major structures and facilities located on the Braidwood site and at the Kankakee River are identified in Figures 6-2 and 6-3. Major features include:

- Unit 1 and Unit 2 containment buildings, which house the nuclear steam supply systems including the reactors, reactor coolant pumps, steam generators, and related equipment that delivers steam to the turbine generators;
- turbine building, where the turbine generators, main condensers, turbine plant heat exchangers, and related equipment are housed;
- auxiliary building, which houses major components of the primary component cooling water system, boric acid storage tanks and pumps, and other safety-related equipment;

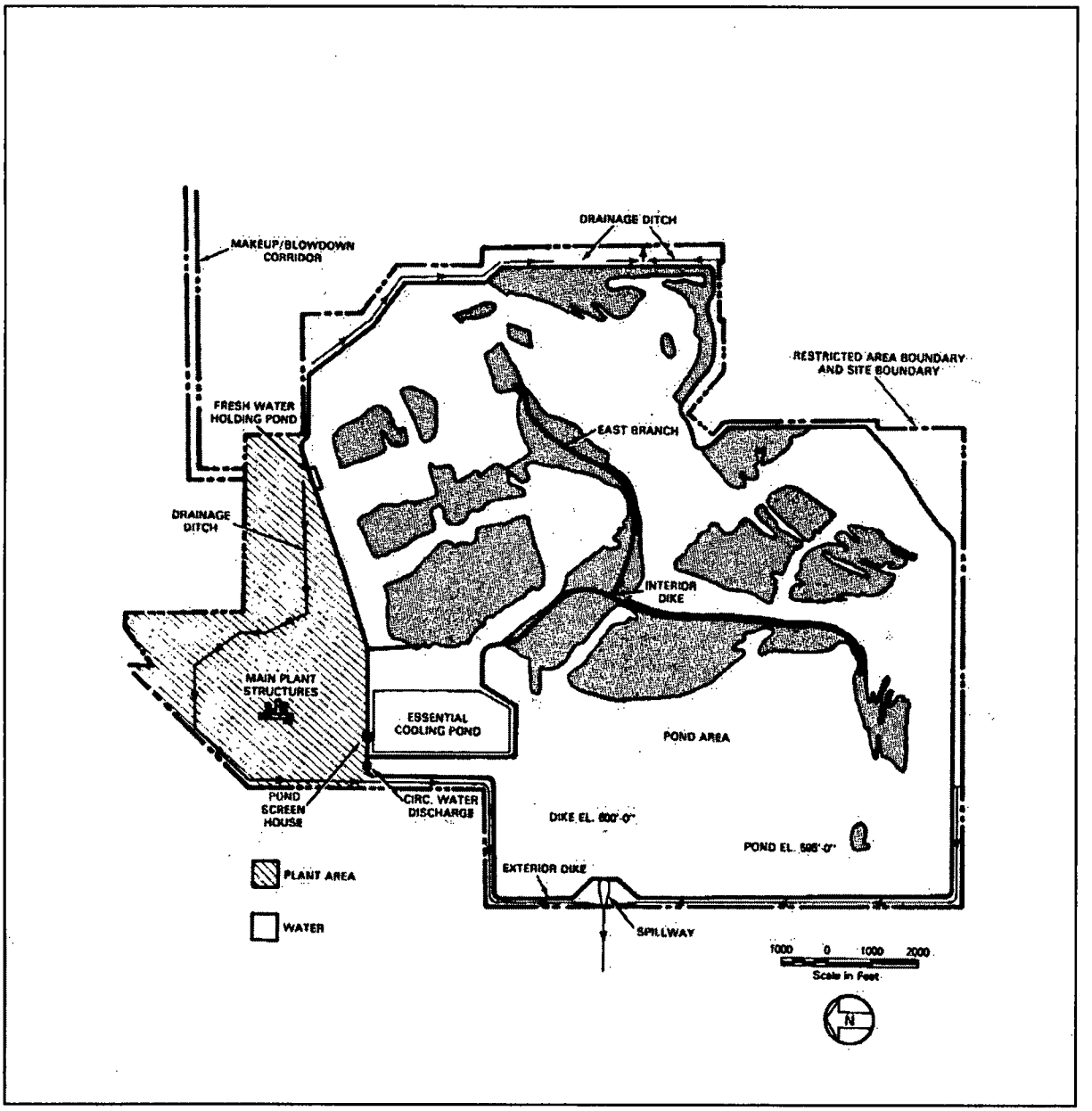


Figure 6-1. Braidwood Site

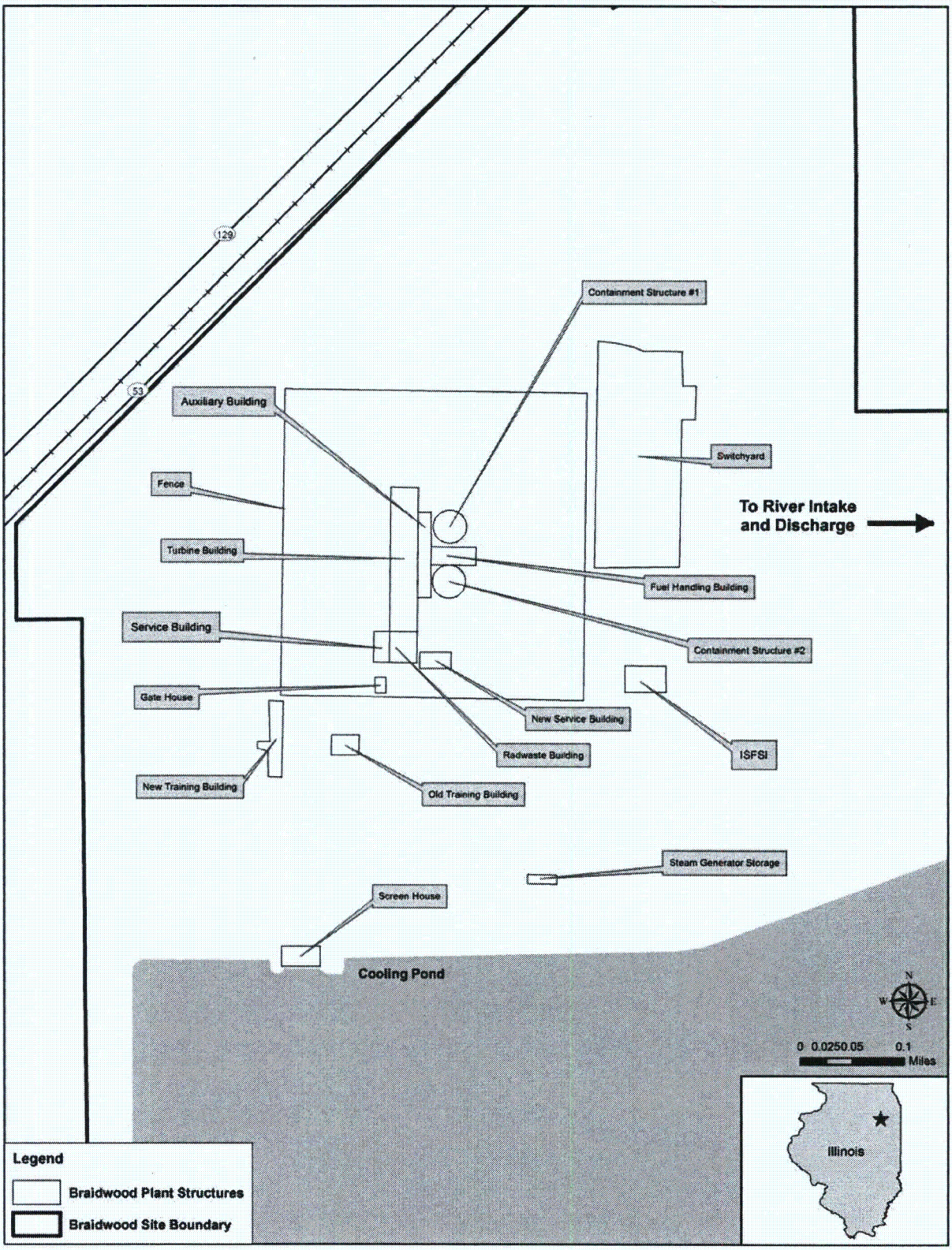


Figure 6-2. Braidwood Site Layout

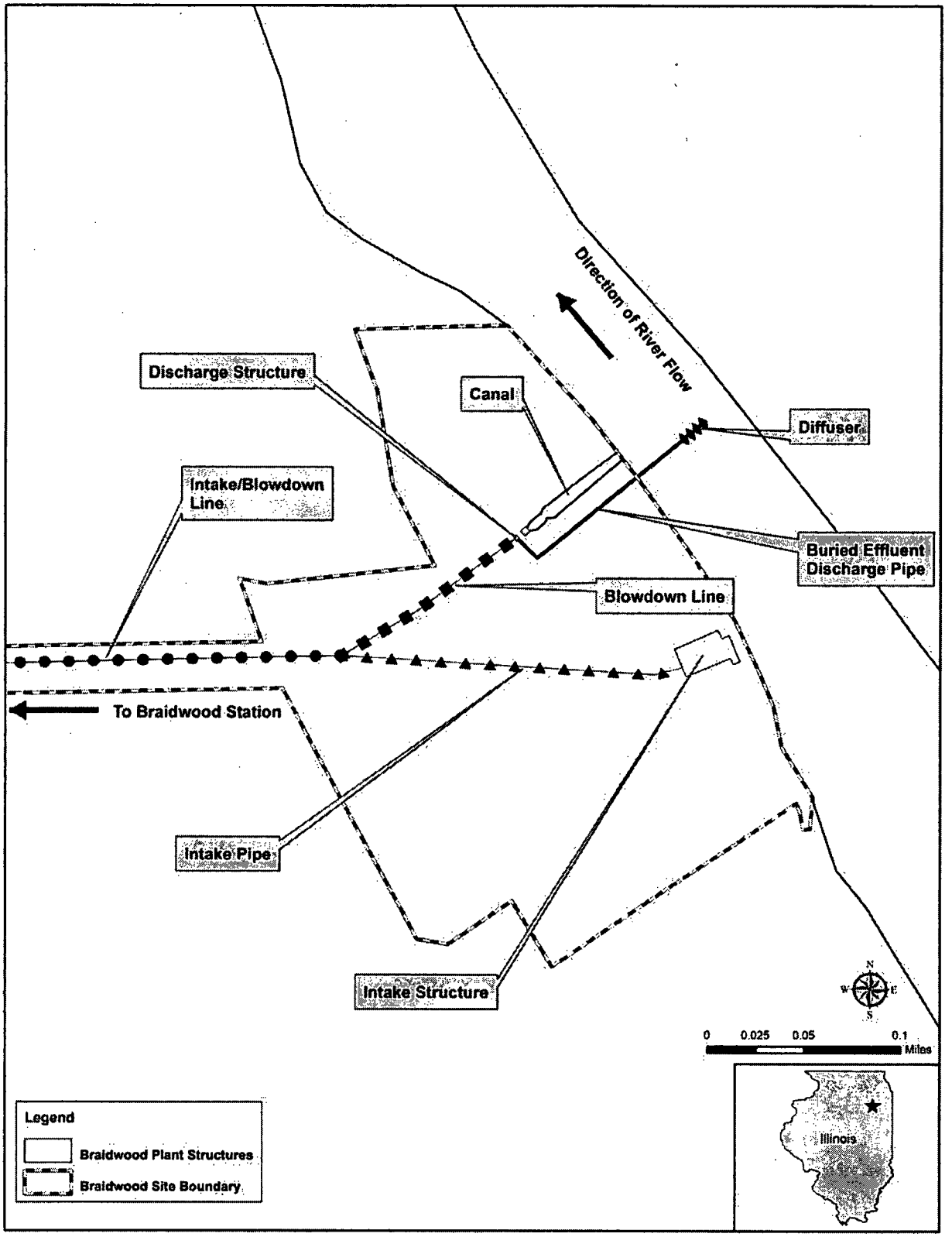


Figure 6-3. Braidwood Kankakee River Structures Layout

- support facilities, such as the electrical switchyard, training buildings, service buildings, steam generator storage building, gate house, and protected Area fencing; and

- Braidwood cooling pond with associated intake and discharge structures and facilities.

Other structures and facilities of interest include the fuel handling building, the Independent Spent Fuel Storage Installation (ISFSI), and the intake and discharge structures on the Kankakee River.

6.2.1 Water Systems

The Braidwood circulating water system withdraws water from an approximately 2,537-acre cooling pond, through an intake structure ("screen house") on the north end of the pond (see Figure 6-1). Heated cooling water returns to the pond via a discharge canal, which is located west of the essential cooling pond, and separated from the intake by a dike (see Figure 6-1). Dikes are used throughout the pond to slow circulation and increase residence time of cooling water between discharge and intake. The cooling pond has a normal pond elevation of 595 feet mean sea level (MSL) with a surface area of 3.87 square miles. The normal volume of the cooling pond is about 22,300 acre-feet.

The essential cooling pond, which is a 99-acre excavated area located within the cooling pond directly in front of the intake, serves as Braidwood's ultimate heat sink. It is designed to provide a cooling water supply capable of supporting 30 days of station operation without additional makeup water.

Makeup water for the Braidwood cooling pond to replace water lost to evaporation, seepage and blowdown comes from the Kankakee River. Water from the Kankakee River is pumped into a freshwater holding pond on the northeast shoreline of the cooling pond (see Figure 6-1) and from there flows into the Braidwood cooling pond.

The blowdown line returns water from the Braidwood cooling pond back to the Kankakee River (Outfall 001) for the purpose of reducing the dissolved mineral concentration in the cooling pond water. This blowdown line also serves as a permitted discharge point for the Station's sewage treatment plant (Outfall 001b) and the liquid radwaste system (Outfall 001c).

Figure 6-4 depicts water use within the plant and identifies permitted outfalls named in NPDES permit IL0048321. The following sections describe the water systems that contribute to these outfalls at Braidwood.

6.2.1.1 Circulating Water System (CWS)

The CWS makeup water screen house on the Kankakee River contains three circulating water makeup pumps, two for normal operations and one for backup. Each pump's rated capacity is 24,000 gallons per minute (gpm). Maximum water withdrawal from the Kankakee River is, therefore, approximately 72,000 gpm. Normal water withdrawal with two pumps operating is up to 48,000 gpm. The bays housing the pumps are protected by traveling screens and bar grills equipped with trash rakes to protect the pumps from ice and debris. Debris is collected in a trash basket and released to an approved independent contractor for offsite disposal. Water enters the makeup water intake structure at a velocity of 0.32 to 0.48 feet per second (fps), depending on river level, when both units are operating -- a rate that is compatible with the protection of aquatic species (EPA 2011).

The CWS intake on the cooling pond employs six 247,000 gpm circulating water pumps (three for each unit), in two separate bays of the cooling pond screen house. To protect the pumps from debris, each bay is fronted by bar grills, trash rakes, and traveling screens. Debris from the

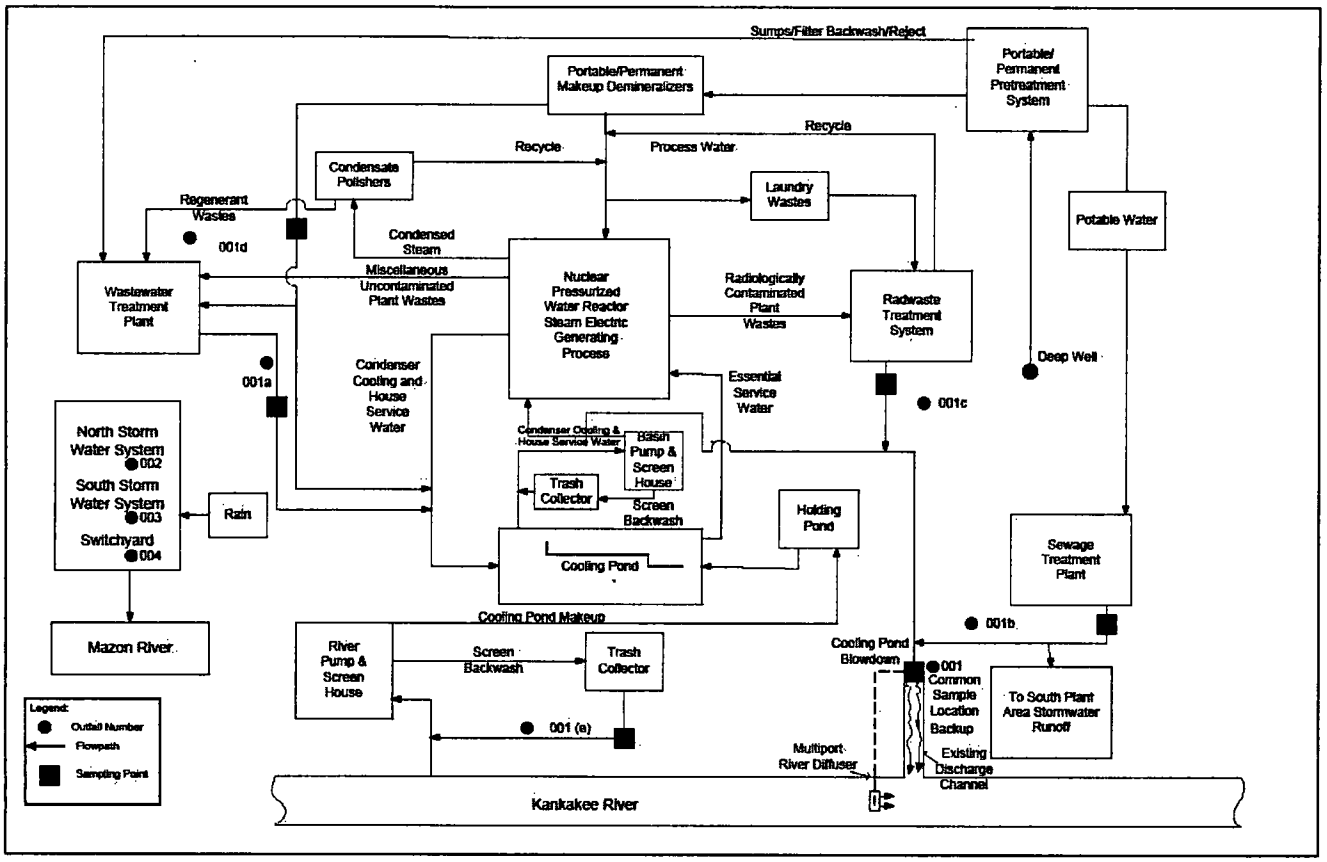


Figure 6-4. Flow Diagram for Braidwood Station

traveling screens and trash rakes is collected in a trash basket and disposed in an offsite permitted landfill. The CWS circulates water from the cooling pond, through the main condenser, and back to the pond. Pumps for fire water and non-essential service water also are located in the cooling pond screen house.

The CWS intake on the cooling pond employs six 247,000 gpm circulating water pumps (three for each unit), in two separate bays of the cooling pond screen house. To protect the pumps from debris, each bay is fronted by bar grills, trash rakes, and traveling screens. Debris from the traveling screens and trash rakes is collected in a trash basket and disposed in an offsite permitted landfill. The CWS circulates water from the cooling pond, through the main condenser, and back to the pond. Pumps for fire water and non-essential service water also are located in the cooling pond screen house.

Braidwood's cooling pond has conditions capable of supporting aquatic plants, Asiatic clams, zebra mussels and a nuisance bryozoan, any of which could cause biofouling that interferes with circulating water flow. To control clams and mussels, Exelon conducts regular inspections and, as needed, mechanical as well as chemical cleaning of the pond screen house forebays. Also, the CWS and service water systems are chlorinated daily, and a mechanical cleaning system is used in the condenser tubes to prevent growth of clams and mussels. The NPDES permit limits chlorine or bromine discharges to less than two hours a day, with an instantaneous maximum concentration at the river outfall of 0.05 mg/l total residual oxidants. Bryozoans and aquatic plants are controlled through inspections and proactive physical removal of bryozoa colonies from the screen house forebays and aquatic plants from the shore ahead of the screen house and the traveling screens.

6.2.1.2 Service Water System

Two service water systems are provided for the Station: the nonessential service water system supplies cooling water for non-safety related equipment and the essential service water system supplies cooling water for safety-related equipment necessary for safe shutdown of the reactors.

The nonessential service water system has three dedicated 35,000 gpm pumps in the cooling pond screen house forebay. Normally two pumps are operated, one for each unit, with the third pump available to provide full capacity backup for either unit. Corrosion and scale inhibitors are used to control organic slime buildup, and a silt dispersant is used to control water quality in the non-essential service water system.

There are two 100-percent capacity essential service water pumps associated with each unit. All four pumps, which are located in the auxiliary building, remove water from the essential service water pond. Each of the pumps is rated at 24,000 gpm. Corrosion and scale inhibitors are used to control organic slime buildup, and a silt dispersant is used to control water quality in the essential service water system.

Service water combines with cooling pond blowdown prior to the point of blowdown discharge to the Kankakee River, which is where effluent residual oxidant limitations in NPDES permit IL0048321, Special Condition 4, must be met.

6.2.1.3 Ground Water Supplied Systems

In 2010, Exelon discontinued using Kankakee River water in the Braidwood potable and makeup demineralizer water systems and began using ground water for those systems.

A 1,750-foot deep well was installed with a pump capable of providing 550 gpm. This groundwater source ensures a consistent raw water supply unaffected by seasonal variations in water quality and enables use of more efficient water treatment systems that produce a higher

quality water supply while generating less waste. As part of the transition from surface water to ground water supply, a new raw water treatment system was installed, replacing the system used to treat raw water from the Kankakee River. The ground water is treated with newer technology, including granular activated carbon, reverse osmosis, and filtration trains, and then stored in the Filtered Water Storage Tank. The tank supplies the potable water system and makeup water demineralizer system (MUDS). The MUDS includes reverse osmosis and electronic deionization units as well as mixed bed demineralizers. The disposition of rejects associated with the pretreatment system and MUDS is shown on Figure 6-4.

6.2.2 Waste Systems

6.2.2.1 Liquid Radioactive Waste System

The Liquid Radioactive Waste System, which is shared by both Braidwood units, collects, monitors, and recycles or releases, with or without treatment as appropriate, all potentially radioactive liquid wastes produced by plant operations, except effluents from the condensate polisher sump and the turbine building fire and oil sump which are monitored and processed individuallybecause they typically contain minimal radioactivity. The Liquid Radioactive Waste System is designed to minimize radiation exposure of station personnel and the general public, in accord with NRC regulations. Radioactive fluids are collected in tanks, sampled, and analyzed to determine the quantity of radioactivity with an isotopic breakdown, if necessary, prior to treatment and release or recycle. Discharge streams are monitored, and safety features are incorporated to ensure that radionuclide releases through the circulating water blowdown line comply with the requirements of 10 CFR 20 and 10 CFR 50, Appendix I.

Effluents from the condensate polisher sump and the turbine building fire and oil sump are monitored by radiation monitors that automatically halt sump pump operations if an unacceptable activity level is detected in the sump effluent.

6.2.2.2 Sewage Treatment System

Braidwood operates an onsite sewage treatment package plant that discharges wastewater to the Kankakee River under NPDES permit IL0048321. Sewage treatment sludge is periodically disposed at a licensed offsite facility. In the future, Exelon plans to install a system for pumping Braidwood's raw domestic sewage for treatment in the City of Braidwood's Waste Water Treatment Plant, which discharges to an unnamed tributary of Claypool Ditch under NPDES permit IL0054992.

6.2.3 Storm Water

The Braidwood Protected Area and surrounding Exelon-owned lands are generally flat and covered by paved areas, roadways, and parking lots. Storm water drainage systems direct runoff from these areas to three permitted storm water outfalls designated in NPDES permit IL0048321 as North Site Stormwater Runoff (Outfall 002), South Site Stormwater Runoff (Outfall 003), and Switchyard Area Runoff (Outfall 004). Releases from all three outfalls flow through an unnamed drainage ditch along the western boundary of the Braidwood property, past the Village of Godley, into the Mazon River (Figure 6-5). A storm water pollution prevention (SWPP) plan has been developed in accordance with NPDES permit IL0048321, Special Condition 8. The Braidwood SWPP plan identifies potential sources of pollution that may be expected to affect the quality of storm water discharges associated with industrial activity in the drainage area of each permitted outfall. The plan also describes practices that are used to reduce pollutants in storm water discharges and assure compliance with applicable conditions of the permit. Areas having potential for spills of a regulated substance, such as oil, are further monitored under the Braidwod Station Spill Prevention Control and Countermeasure Plan.

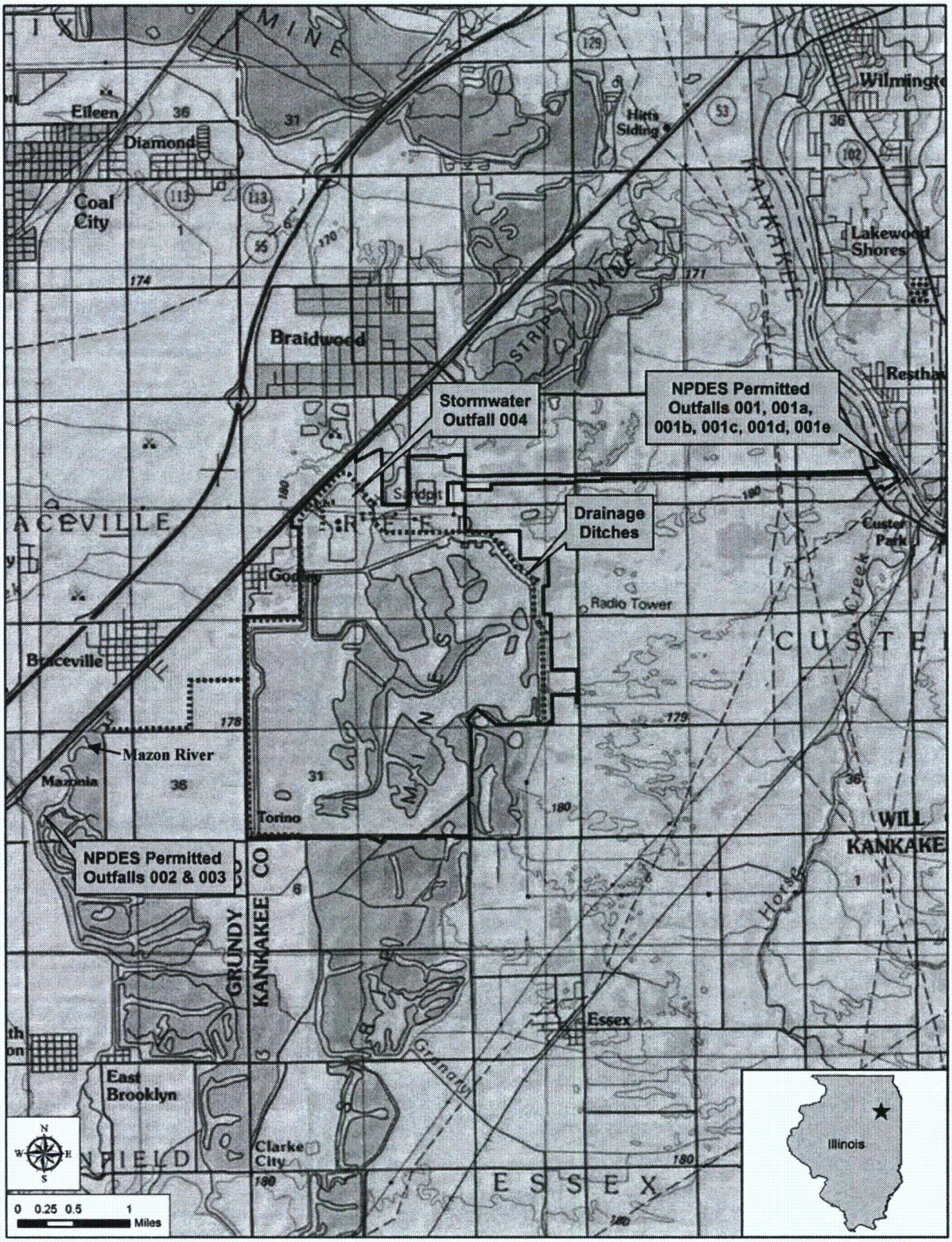


Figure 6-5. Plant Area Drainage for Braidwood Station

The elevation of the water in the unnamed drainage ditch that carries storm water runoff to the Mazon River is about 579 feet MSL as the ditch exits the Braidwood property. A culvert carries flow from the perimeter ditch and any overflow from the cooling pond spillway under Kankakee Road to the Mazon River.

6.3 Water Quality Standards and the Condition of Water Resources in the Project Area

The IEPA implements Illinois water quality standards, which have their basis in the U.S. Clean Water Act (CWA), and include general water quality standards (that apply regardless of water classification) and standards applicable to General Use waters. General water quality standards are described in Illinois Administrative Code (IAC) Title 35, Part 302, Subpart A, and include requirements for mixing zones, flows, temperature, and antidegradation.

Standards applicable to General Use waters are described in IAC Title 35, Part 302, Subpart B, and include those for radioactivity, dissolved oxygen, nutrients, toxic substances, and a range of chemical constituents. General Use standards protect water for aquatic life, wildlife, agricultural use, secondary contact use, and most industrial uses.

Through Section 303(d) of the CWA, the U.S. EPA requires states to identify impaired waters of the state, that is, those waters where the required pollution control measures are not sufficient to maintain applicable water quality standards. Water bodies on the Clean Water Act (CWA) Section 303(d) impaired waters list are subject to a more proactive approach to pollution prevention and water quality management.

Finally, the Illinois Department of Natural Resources (IDNR) is responsible for the protection of fish and aquatic life (515 ILC S5 Fish and Aquatic Life Code), including protecting aquatic life from "waste, sewage, thermal effluent or any other pollutant [that] allows pollution of waters of the state..."

The Braidwood NPDES permit covers discharges from plant operations to the Kankakee River, and discharges from the stormwater system to the Mazon River. Outfall 001 directs effluent from five industrial sources within the plant to the Kankakee River (Outfalls 001(a) – (e)). The Mazon River receives only stormwater runoff through Outfalls 002, 003, and 004.

The following subsections in this section describe applicable standards and water quality requirements for the Kankakee and Mazon Rivers. Section 6.4 discusses the effect of permitted discharges on these rivers.

6.3.1 Kankakee River

The Kankakee River is classified as General Use water by the IEPA Bureau of Water (IAC Title 35, Section 303.201). The NPDES permit imposes load and/or concentration limits on Braidwood effluents that must be maintained to meet all applicable standards. Parameters regulated by the Braidwood NPDES permit include total suspended solids, oil and grease, pH, biochemical oxygen demand, total residual chlorine, heat, and total residual oxidants. The permit specifically prohibits discharges of certain contaminants, such as PCBs. Exelon monitors the discharges and parameters and provides monitoring results to IEPA in monthly reports. Braidwood has experienced ocassional exceedances of permit limits in the past but in general, all NPDES permit limits are routinely met.

Under IAC Title 35, Section 302.102, "a [temperature] mixing zone must not contain more than 25 percent of the cross-sectional area or volume of flow of a stream." In accordance with Special Condition 3 of NPDES permit IL0048321 and IAC Title 35, Section 302.211, the discharge may not cause temperatures in the river (beyond the mixing zone) to increase by more than 5°F above natural temperatures. In addition, the water temperature at representative locations in the main river must not exceed the maximum limits specified in Special Condition 3.

The stream segment (IL_F-16) of the Kankakee receiving the discharge from Braidwood Outfall 001 is identified in the March 2012 (draft) *Illinois Integrated Water Quality Report and Section 303(d) List* as impaired waters due to the presence of mercury, polychlorinated biphenyls and manganese, which is attributed to atmospheric deposition or unknown sources. Discharges of metals and polychlorinated biphenyls are not permitted from Braidwood, thus Braidwood does not contribute to the impairment. The uses impaired are described in the following table.

Potential causes	Uses impaired
Mercury and polychlorinated biphenyls (PCBs)	Fish consumption
Manganese	Public and food processing water supplies

Based on the IDNRs' Biological Stream Rating Mapping Tool, the Kankakee River is a biologically significant stream at the Braidwood Outfall 001 location, where it scores a biological diversity rating of "A" and an integrity rating of "B." The River at this location is also designated for enhanced dissolved oxygen (DO) protection pursuant to IAC Title 35, Part 302, Appendix D. DO concentrations in these streams/stream segments must be not less than 5.0 mg/L at any time during the period of March through July and not less than 4.0 mg/L at any time during the period of August through February. NPDES permit IL0048321 specifies limits on biochemical oxygen demand in the Braidwood sewage treatment plant effluent (Outfall 001(b)), as well as limits on temperature effects beyond the Braidwood mixing zone in the Kankakee River (Special Condition 3).

6.3.2 Mazon River

The Mazon River is classified by the Illinois EPA Bureau of Water as General Use water (IAC Title 35, Section 303.201). The segment of the Mazon River that receives Braidwood storm water is also listed in IAC Title 35, Part 302, as a stream segment afforded enhanced dissolved oxygen protection.

The Mazon River stream segment (IL_DV-04) receiving the storm water discharge from Braidwood is identified in the March 2012 (draft) *Illinois Integrated Water Quality Report and Section 303(d) List* as impaired, not fully supporting "Fish Consumption" and "Primary Contact Recreation" designated uses. Mercury and PCBs are the listed causes of impairment for Fish Consumption. Fecal coliform bacteria is listed as the cause of impairment for Primary Contact Recreation. No mercury, polychlorinated biphenyls, or fecal coliform are identified in the Storm Water Pollution Prevention (SWPP) Plan as being expected in storm water discharges from Braidwood.

Based on the IDNR's Biological Stream Rating Mapping Tool, the Mazon River is not a biologically significant stream at the point where it receives Braidwood storm water discharges. The Mazon River has been assigned an 'A' biological diversity rating and an 'A' integrity rating at this location.

6.4 Braidwood Surface Water Use

6.4.1 Kankakee River

As described in Section 6.2.1, above, Braidwood withdraws makeup water from the Kankakee River to replace water lost from the cooling pond due to evaporation, seepage and consumptive use. Braidwood also discharges effluents to the Kankakee River. Therefore, the operation of Braidwood affects this water source, which is regulated by the state of Illinois.

Exelon has an agreement with the IDNR to limit withdrawal of water from the Kankakee River for makeup to the Braidwood cooling pond to an instantaneous 160 cubic feet per second (cfs). The withdrawal is further limited to rates that prevent river flow from dropping below 442 cfs.

Under most circumstances the Braidwood units are able to operate at full load with net water withdrawals of less than 10 percent of river flow. However, this may not be possible during periods of high water consumption combined with low river flow.

Continued station operation during times when river flow drops below 442 cfs would require a drawdown of the cooling pond. The Braidwood station can operate while drawing the cooling pond down from the normal operating level of 595.0 feet MSL to as low as 592.8 feet MSL (the circulating water pump net positive suction head requirement). When this lower level is reached the units are shut down until the river flow increases to a point where withdrawals of makeup water to the cooling pond can resume.

Pumping from the river is restricted by time of day during peak entrainment periods. Special Condition 7 of NPDES permit IL0048321 delineates those pumping constraints.

The amount of cooling pond makeup needed varies seasonally. The normal makeup withdrawal rate rate with two pumps operating is approximately 107 cfs. Blowdown rates range between 55.7 cfs and 66.8 cfs, depending on water chemistry in the cooling pond. An estimated 66 cfs is consumed due to seepage and evaporation from the cooling pond during maximum makeup.

The source of chemical and biocide discharges into the Kankakee River from Braidwood is blowdown from the cooling pond. With the exception of biocides, the blowdown contains the same chemical constituents as the makeup water from the river, but at higher concentrations because of evaporative water losses from the cooling pond. Chemical treatment (e.g., pH adjustments) to prevent scale formation in the heat exchange equipment increases the total dissolved solids concentrations in the blowdown above those expected as the result of evaporation alone. The average total dissolved solids concentration in the cooling pond and in the blowdown discharge to the river is approximately 900 mg/L. The expected chemical composition of the cooling pond blowdown is described in the application for renewal of NPDES permit IL0048321 (dated 2/29/2000). The pH of the discharge to the river is monitored and treated as necessary to meet applicable standards. Renewal by the NRC of the Braidwood Operating Licenses would not change plant discharges or pollutant loads to the Kankakee River.

Blowdown is released to the Kankakee River via a submerged 7-port diffuser situated in mid-river approximately 500 feet downstream of the intake structure. The diffuser replaced an outfall structure that discharged via a 275-ft riprapped channel to the river. The original blowdown outfall structure is available as a backup to the river diffuser. Figures 6-3 and 6-6 show the discharge location.

The 7-port diffuser was modeled by Exelon (Hydroqual 2009). The existing outfall and three river diffuser configurations were evaluated. The modeling indicates that the 7-port diffuser results in a thermal plume that is consistent with IEPA regulations at IAC Title 35, Section 301.102 (mixing zones) and Section 302.211 (water quality standards for temperature). The

maximum surface area of the thermal mixing zone was estimated at 35 meters wide and 25 meters downstream of the diffuser, or about 0.22 acre. The plume size in relation to the cross sectional area of the river varies seasonally but is never greater than 25 percent of the river cross section. The Braidwood blowdown affects a very small area of the Kankakee River and never creates a barrier to fish movement.

Also, a review in 2011 of previous studies of freshwater mussels in the Kankakee River concluded that the richness, species composition, and distribution of freshwater mussels in the vicinity of the Braidwood cooling pond blowdown is similar to other areas of the Kankakee River.

6.4.2 Mazon River

Braidwood's NPDES Permit Special Condition No. 8 requires a Storm Water Pollution Prevention Plan for stormwater runoff not processed by the station's wastewater treatment facilities. The plan requires annual inspections and reporting of pollution prevention controls, as well as documentation of any event requiring a response, and subsequent corrective action.

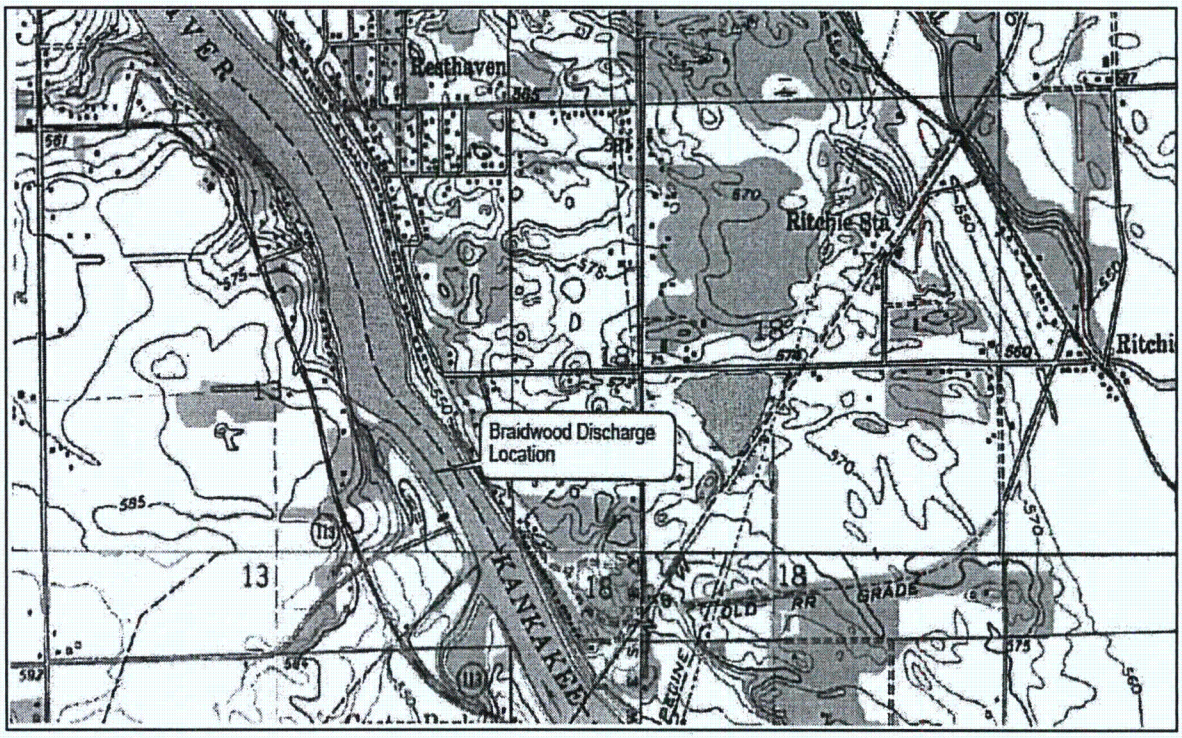


Figure 6-6. Braidwood Outfall 001 Discharge Location on the Kankakee River

6.5 Monitoring Programs

6.5.1 Environmental Protection Plan

Exelon carries out the environmental monitoring programs described in the Environmental Protection Plan that is incorporated into the NRC operating licenses for Braidwood Units 1 and 2. The Environmental Protection Plan incorporates the NPDES permit by reference. Therefore, monitoring of the aquatic environment consists of the monitoring specified in the NPDES permit.

6.5.2 Radioactive Monitoring in Surface and Ground Water

Exelon has a radiological monitoring program at Braidwood that includes routine sampling and analysis of surface and ground water for gamma emitters, strontium, and tritium. The program is designed to identify adverse trends that suggest occurrence of a spill or leak, which would allow Exelon to take corrective actions to prevent or minimize potential impacts to ground water.

Tritium is produced in the reactor coolant system and is released to the Kankakee River via the CWS blowdown pipeline. As Section 6.2.2.1, above, explains, the Braidwood radioactive liquid waste handling system also generates radioactive effluents that are sampled and analyzed to ensure compliance with NRC regulations in 10 CFR Part 20 prior to batch discharges via the CWS blowdown pipeline.

In 2006, Exelon installed monitoring wells to monitor possible ground water tritium migration resulting from the earlier on-site leaks and to provide information about site-specific geology and hydrogeology. This information was used to develop a site-specific Radiological Groundwater Protection Program (RGPP), which provides the methodology and criteria for detecting, assessing, and reporting the on-site presence of tritium, strontium, and gamma emitters in groundwater.

In a separate effort during 2006, Exelon also investigated tritium impact areas along the CWS blowdown line from Braidwood to the discharge point in the Kankakee River. Braidwood had experienced leaks of tritiated water from its CWS blowdown pipeline vacuum breakers several times from 1996 through 2003 that contaminated groundwater under the site property, and that eventually may have migrated off-site. However, only 1 of the 36 private wells belonging to residents just northeast of the plant property, which is downgradient of the on-site tritium detection and along the 5-mile-long blowdown pipeline, was found to contain tritium above detectable limits, and even that well showed tritium at a fraction of the U.S. Environmental Protection Agency's safe level for public drinking water (20,000 picoCuries per liter).

Exelon has cooperated fully with the IEPA, the Illinois Attorney General's Office, and the NRC to investigate and remediate tritium from the CWS blowdown pipeline. In March 2010, the Circuit Court for the Twelfth Judicial Circuit, Will County, Illinois Chancery Division approved a Consent Order under which Exelon agreed to perform the following actions to assure future compliance with applicable Illinois statutes and regulations:

- Provide certain property owners with a potable water supply;
- Under specified conditions, modify the existing groundwater monitoring program;
- Continue specified groundwater remediation actions until they are terminated in accordance with the Consent Order;
- Operate continuous monitoring systems in vacuum breaker vaults along the blowdown pipeline;
- Provide funding for implementation of a supplemental environmental project;

- Issue quarterly progress reports on the status of all work required by the Consent Order; and
- Implement a community relations plan and provide information to the public about releases and remediation of tritium as well as non-tritium radionuclides, if any are released.

6.6 Antidegradation Assessment

The IAC Title 35, Part 302, Water Quality Standards, requires IEPA to assess on a case-by-case basis any activity requiring a CWA Section 401 certification for compliance with the antidegradation standard (§ 302.105(c)(2)). Further, IEPA's assessment is required to consider the fate and effect of any parameters proposed for increased pollutant loading and to assure that water quality standards will not be exceeded, all existing uses will be fully protected, all reasonable measures to avoid or minimize the extent of the proposed increase in pollutant loading have been incorporated, and the activity that results in increased pollutant loading will benefit the community at large.

As previously stated in this application, NRC renewal of the Braidwood Generating Station operating licenses would not alter discharges or discharge pollutant loads from the Braidwood units during the extended operating terms, and no construction is planned in connection with the license renewals. In addition, the Braidwood station has operated since 1986, and will continue to operate subject to IEPA NPDES permit IL0048321, as it may be renewed or modified from time to time, as well as any existing agreements pertaining to water quality between the station and IDNR.

Compliance with the discharge limits and surveillance requirements specified in NPDES Permit IL0048321 assures that Braidwood operations will protect existing uses of the Kankakee and Mazon Rivers and will not result in exceedances of numeric or narrative water quality standards. Exelon must periodically apply for renewal of the NPDES permit. The application review process provides additional assurance that discharges from Braidwood will not degrade the Kankakee or Mazon Rivers.

In summary, because no increase to pollutant loading would be associated with NRC renewal of the Braidwood operating licenses and because plant operations will be subject to the NPDES permit requirements, as well as IDNR regulations and agreements during the license renewal terms, the proposed renewal of the Braidwood operating licenses would comply with the antidegradation criteria related to 401 certification reviews by IEPA.

6.7 References:

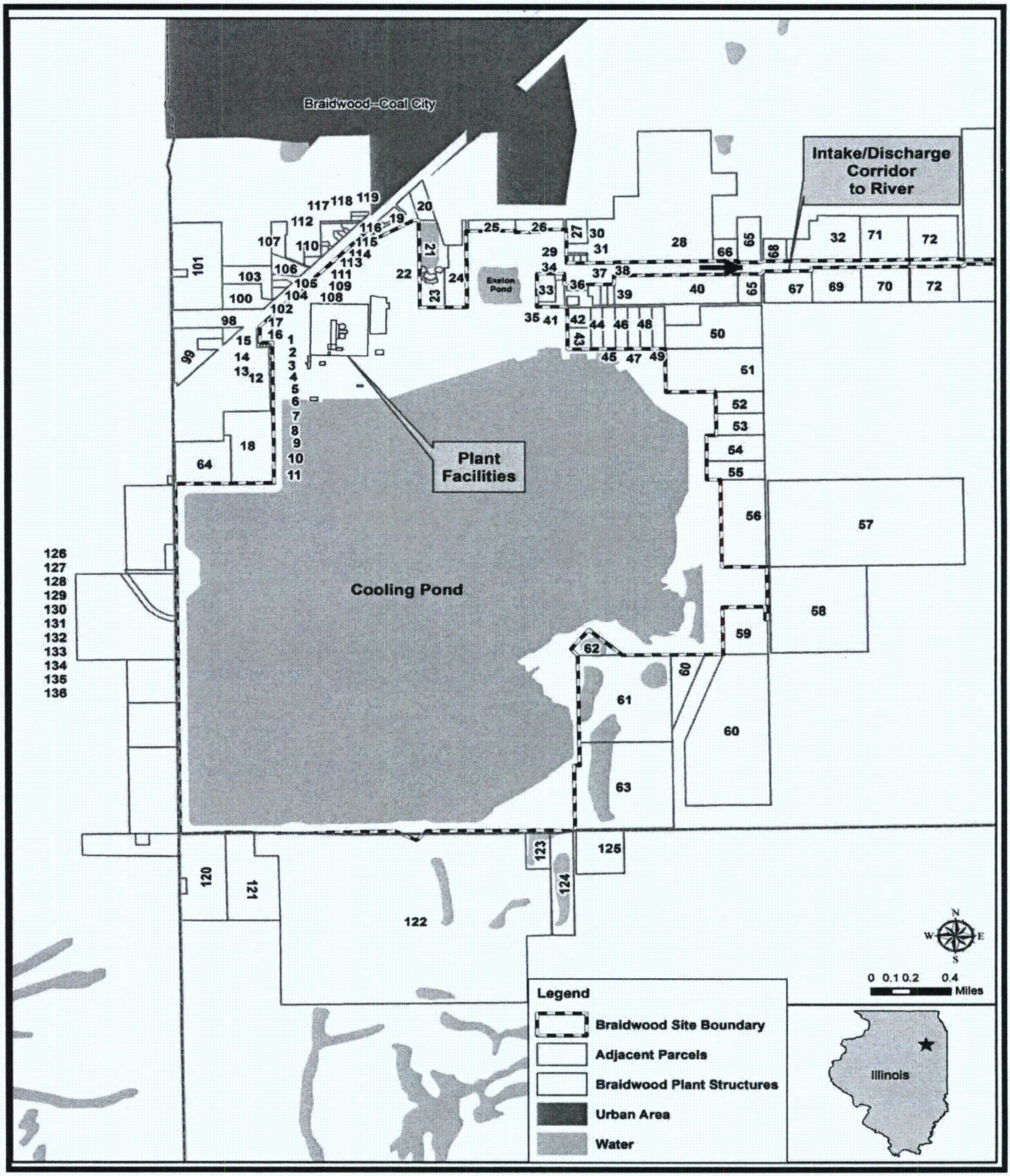
EPA 2011. Proposed Regulations to Establish Requirements for Cooling Water Intake Structures at Existing Facilities. EPA-820-F-11-002. U.S. Environmental Protection Agency Office of Water. Washington DC.

HydroQual 2009. Thermal Impact and Mixing Zone Analysis, Letter Report dated May 4, 2009 from Mr. Andy Thuman, P.E. to Bryan Risley, Project Manager, Exelon Nuclear.

7.0 Exelon Braidwood Generating Station License Renewal Adjacent Property Owners

This section identifies the names and addresses of adjoining and potentially affected property owners. The property that is the subject of this application includes the plant facilities, cooling pond, intake/discharge corridor to Braidwood Station, and river intake/discharge facilities, all of which are owned by Exelon Generation Company.

Pages 21 and 22, below, contain drawings in the format specified by NCR Form 426 for identifying adjoining properties. On the drawings, each adjoining property is assigned a unique site number. The table following the drawings (pages 23 to 29) lists the owner and property address for each site number.



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SHEET 1 OF 2

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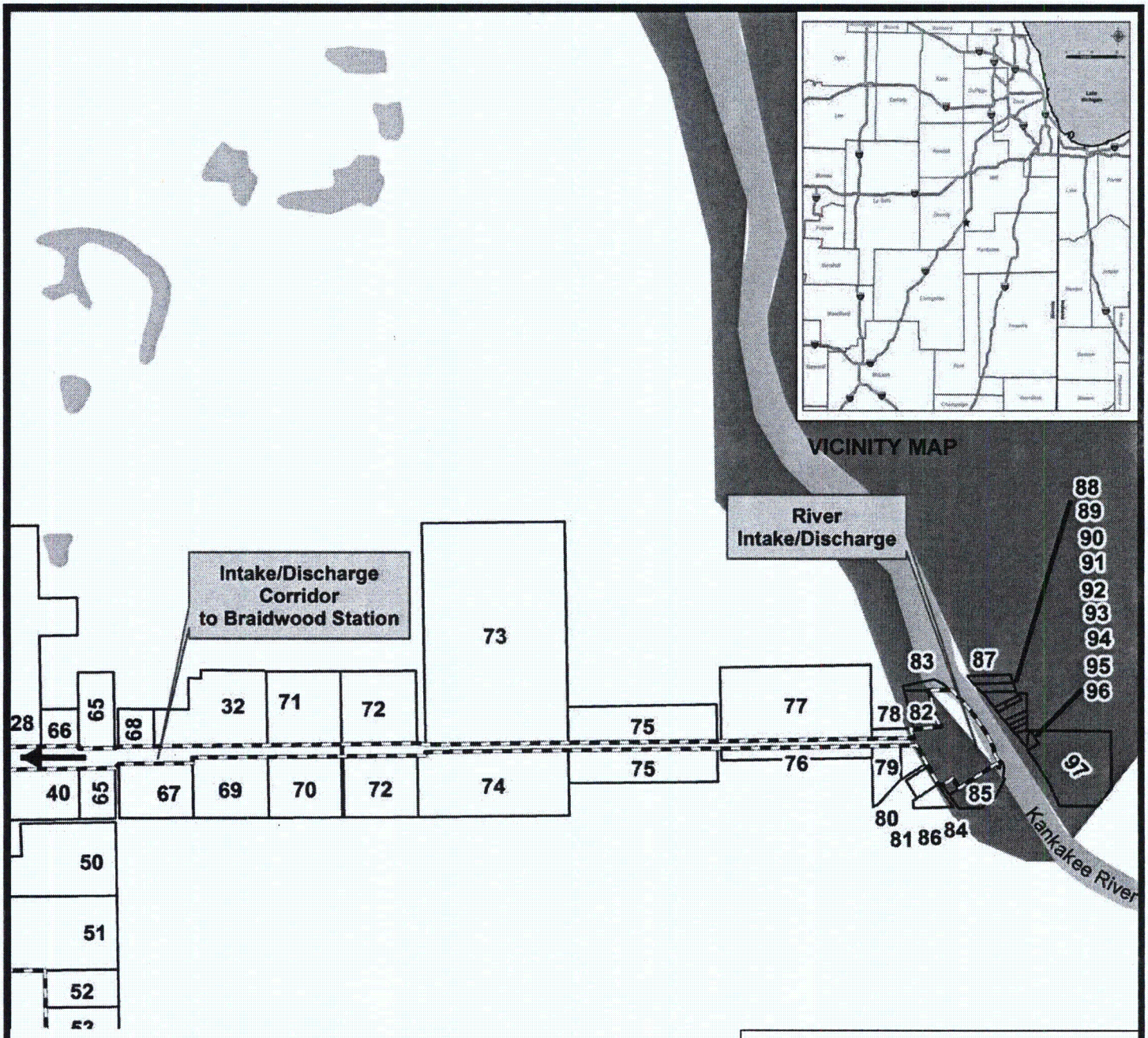

LIST OF ADJACENT PROPERTY OWNERS

NO.	NAME	ADDRESS
1.	See Attached Sheets (pages 23 to 29)	
2.		
3.		
4.		

PROJECT DESCRIPTION

Braidwood Generating Station
Operating License Renewal

LOCATION:
Braidwood Station
Braceville, IL

NCR FORM 426
08 AUG 02

SHEET 2 OF 2

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Exelon Braidwood Generating Station License Renewal Adjoining Property Owners

Site	PIN	Owner	Property Address	Mailing Address (if different)
Will County[1]				
1	0224191010070000	NOVY DONNA R	784 E ELMO CT GODLEY IL 60407	
2	0224191020050000	MAZON STATE BANK TR 2716	606 DEPOT ST PO BOX 367 MAZON IL 60444	785 ELMO CT GODLEY IL 60407
3	0224191020100000	DOYLE GERLAD THREASA	22748 W COUNTY LINE RD WILMINGTON IL 60481	784 DAYTON CT GODLEYIL 60407
4	0224191030050000	WILSON JAMES	55 S CARBON HILL RD COAL CITY IL 60416	785 E DAYTON CT GODLEY IL 60407
5	0224191030100000	KRUEGER TOM VANESSA	784 MESA CT GODLEY IL 60407	727 E MESA CT GODLEY IL 60407
6	0224191040050000	METZ PHILLIP	215 S KANKAKEE ST GODLEY IL 60407	785 E MESA CT GODLEY IL 60407
7	0224191040100000	MAZON STATE BANK TR 2716	606 DEPOT ST PO BOX 367 MAZON IL 60444	786 E RICHARD CT GODLEY IL 60407
8	0224191070050000	GLADKOWSKI TR PL FMLY TR	1990 E OLD PINE BLUFF MORRIS IL 60450	791 RICHARD CT GODLEY IL 60408
9	0224191080150000	HIGGINS CAROL A	785 E MARY LN GODLEY IL 60407	
10	0224193120150000	BARTON MICHAEL J ROSE L	784 E ROSE LN GODLEY IL 60407	
11	0224193130160000	SCHMECKPEPER DOUGLAS	785 ROSE LN GODLEY IL 60407	
12	0224191010060000	WALINE ANTHONY R	764 ELMO CT GODLEY IL 60407	
13	0224191010050000	DURAN JUAN A DARCI R	744 E ELMO CT GODLEY IL 60407	
14	0224191010040000	DERR JEFFREY W RHONDA	724 E ELMO CT GODLEY IL 60407	
15	0224191010030000	BARGO NICOLE D	704 E ELMO CT GODLEY IL 60407	
16	0224191010020000	NOVY ALBERTA M	452 VERNON DR GODLEY IL 60407	
17	0224191010010000	HYSEL KIMBERLY CHARLES	490 N VERNON DRGODLEY IL 60407	
18	0224193110030000	CHICAGO BEAGLE CLUB INC	6765 S FILMAN RD GARDNER IL 60424	
19	0224171030060000	B-THREE INVESTORS	32835 DEER RIDGE DR WILMINGTON, IL60481	34636 S RTE 53 BRAIDWOOD IL 60408
20	0224171030020000	FROST DONALD E	603 S FRONT ST BRAIDWOOD IL 60408	BRAIDWOOD60408
21	0224173010010000	MAZON STATE BANK TR 5087	PO BOX 367 MAZON IL 60444	S CENTER ST BRAIDWOOD 60408

Site	PIN	Owner	Property Address	Mailing Address (if different)
22	0224173010020000	SCHOLTES THOMAS J CATHERINE A	392 S CENTER ST BRAIDWOOD IL 60408	
23	0224173010110000	MAZON STATE BANK TR 5087	PO BOX 367 MAZON IL 60444	S CENTER ST BRAIDWOOD60408
24	0224173000200000	FATLAN LEO E	1014 WOODED CREST DR MORRIS IL 60450	34900 S CENTER STBRAIDWOOD60408
25	0224174000180000	GONIS HAROLD KATHY	34711 S CENTER ST BRAIDWOOD IL 60408	** NOT ON FILE **
26	0224174000160000	ZIMMER THOMAS JUDITH	34714 S CEMETERY RD BRAIDWOOD IL 60408	
27	0224163000300000	CLARK ROBERT J DORIS M	34713 S CEMETERY RD BRAIDWOOD IL 60408	
28	0224162000160000	FOREST PRESERVE DIST	17540 W LARAWAY RD JOLIET IL 60433	** NOT ON FILE **
29	0224163010010000	FISHER VIVIAN M	24753 W FAIR OAKS DR BRAIDWOOD IL 60408	
30	0224163010020000	FALETTI JAY A PATRICIA	24735 W FAIR OAKS DR BRAIDWOOD IL 60408	
31	0224163010030000	DE SALVO VINCENT L	24717 W FAIR OAKS DR BRAIDWOOD IL60408	
32	0224171030080000	FOREST PRESERVE DIST	17540 W LARAWAY RD JOLIET IL 60433	** NOT ON FILE **
33	0224174000120000	SCAMEN ROBERT E NANCY A REV TR	34928 CEMETERY RD BRAIDWOOD IL60408	
34	0224174000130000	SCAMEN ROBERT E NANCY A REV TR	34928 CEMETERY RD BRAIDWOOD IL60408	34926 S CEMETERY RDBRAIDWOOD IL60408
35	0224174000140000	SCAMEN ROBERT E NANCY A REV TR	386 CEMETERY RD BRAIDWOOD IL60408	** NOT ON FILE **
36	0224163000340000	BURDITT MARCUS D JOAN B	35011 CEMETERY RD BRAIDWOOD IL60408	
37	0224163000400000	SIKIC GERALDINE K	24550 W SMILEY RD BRAIDWOOD IL 60408	
38	0224163000390000	DE LEON GEORGE YUN CHA	16260 S WEBER RD LOCKPORT IL 60441	** NOT ON FILE **
39	0224163000360000	ROBAK RANDALL A	24610 W SMILEY RD BRAIDWOOD IL 60408	
40	0224164000190000	FOREST PRESERVE DIST	17540 W LARAWAY RD JOLIET IL 60433	** NOT ON FILE **
41	0224163000370000	BAWCUM DWAYNE	35047 CEMETERY RD BRAIDWOOD IL 60408	
42	0224211000060000	ROMAN CATHOLIC DIOCESE	425 SUMMIT ST JOLIET IL 60435	** NOT ON FILE **
43	0224211000020000	ROMAN CATHOLIC DIOCESE	425 SUMMIT ST JOLIET IL 60435	** NOT ON FILE **

Site	PIN	Owner	Property Address	Mailing Address (if different)
44	0224211000070000	SHECK MICHAEL D WENDY S	PO BOX 159 BRAIDWOOD IL 60408	24645 W SMILEY RD BRAIDWOOD60407
45	0224211000080000	KAPKE KENNETH SUSAN	24607 W SMILEY RD BRAIDWOOD IL 60408	
46	0224211000050000	DESONIA THERESA	32329 W RIVER RD WILMINGTON IL 60481	** NOT ON FILE **
47	0224211000090000	KILPATRICK A WAYNE	24455 W SMILEY RD BRAIDWOOD IL 60408	** NOT ON FILE **
48	0224211000100000	ANNIS JAMES R	24441 W SMILEY RD BRAIDWOOD IL 60408	** NOT ON FILE **
49	0224211000110000	WILSON THOMAS R VICKY	135 E SCHMIDT LNBRAIDWOOD IL 60408	** NOT ON FILE **
50	0224212000030000	MACK JOHN SR ESTATE	201 MCINTYRE ST WILMINGTON IL 60481	** NOT ON FILE **
51	0224212000020000	YOKAS GEORGE	29 BRIARWOOD LANE LA GRANGE IL 60525	** NOT ON FILE **
52	0224214000110000	KOHN TERRY R	32940 OLD CHICAGO RD WILMINGTON IL 60481	** NOT ON FILE **
53	0224214000070000	MITCHELL STEVEN J	35604 ESSEX RD WILMINGTON IL 60481	
54	0224214000150000	DOHERTY JOHN F	315 N CEDAR STWOOD DALE IL 60191	** NOT ON FILE **
55	0224214000140000	NOECKER JD KI DECL TR	35808 ESSEX RD WILMINGTON IL 60481	** NOT ON FILE **
56	0224282000030000	CORBIN KEITH SR THELMA	36120 ESSEX RD WILMINGTON IL 60481	** NOT ON FILE **
57	0124271000020000	DOMANELLA AMERICO	1551 PORTAGE RUN GLENVIEW IL 60025	** NOT ON FILE **
58	0124273000010000	DOMANELLA AMERICO	1551 PORTAGE RUN GLENVIEW IL 60025	S ESSEX RD & COOPER RD WILMINGTON IL 60481
59	0224284000100000	FOLEY EDWARD P LVG TR	PO BOX 68 ESSEX IL 60935	** NOT ON FILE **
60	0224332000040000	FOLEY EDWARD P LVG TR	PO BOX 68 ESSEX IL 60935	** NOT ON FILE **
61	0224331000020000	SO WILM SPORTSMAN CLUB	BOX 175 ESSEX IL 60935	** NOT ON FILE **
62	0224283000050000	SO WILM SPORTSMAN CLUB	BOX 175 ESSEX IL 60935	** NOT ON FILE **
63	0224333001180000	SO WILM SPORTSMAN CLUB	BOX 175 ESSEX IL 60935	** NOT ON FILE **
64	0224193110010000	GODLEY PARK DISTRICT	500 S KANKAKEE ST GODLEY IL 60407	** NOT ON FILE **
65	0224164000160000	BANK OF LYONS TR 2129	8601 W OGDEN AVE LYONS IL 60534	** NOT ON FILE **
66	0224164000070000	HARRISON BLANCHE MRS	34646 ESSEX RD WILMINGTON IL 60481	** NOT ON FILE **
67	0124153000090000	BIBLY SUSAN A	34832 ESSEX RD	

Site	PIN	Owner	Property Address	Mailing Address (if different)
			WILMINGTON IL 60481	
68	0124153000020000	CUSTER TOWNSHIP c/o BRUCE TAMMEN	37131 ESSEX RD WILMINGTON IL 60481	** NOT ON FILE **
69	0124153000110000	FAVERO RAYMOND MARY	700 E MAIN ST BRAIDWOOD IL 60408	
70	0124154000060000	FAVERO MARK LE ANN	23538 SMILEY RD WILMINGTON IL60481	
71	0124154000010000	FOREST PRESERVE DIST	17540 W LARAWAY RD JOLIET IL 60433	W SMILEY RD WILMINGTON IL60481
72	0124154000040000	FOREST PRESERVE DIST	17540 W LARAWAY RD JOLIET IL 60433	W SMILEY RD WILMINGTON IL60481
73	0124141000040000	FOREST PRESERVE DIST	17540 W LARAWAY RD JOLIET IL 60433	W RT 113 WILMINGTON IL60481
74	0124143000040000	FOREST PRESERVE DIST	17540 W LARAWAY RD JOLIET IL 60433	W SMILEY RD WILMINGTON IL60481
75	0124144000120000	CUNNING HAROLD	PO BOX 296 SOUTH WILMINGTON IL60474	S ZILM RD WILMINGTON IL60481
76	0124133000050000	UNDERWOOD MARVIN	PO BOX 187 WILMINGTON IL 60481	S ZILM RD WILMINGTON IL60481
77	0124133000010000	KLAUSING KEN MARY JANE LVG TR	34753 ZILM RD WILMINGTON IL 60481	
78	0124134000180000	BEGESKE FAMILY DEC TRUST	21905 HWY 113 WILMINGTON IL 60481	
79	0124134000090000	UNDERWOOD MARVIN TR 17557	PO BOX 187 WILMINGTON IL 60481	W SMILEY RD CUSTER PARK 60481
80	0124134000100000	UNDERWOOD MARVIN TR 17557	PO BOX 187 WILMINGTON IL 60481	W SMILEY RD CUSTER PARK 60481
81	0124134000080000	MATHENA DENNIS DAWN	21861 SMILEY RD WILMINGTON IL 60481	
82	0124134010020000	WORTH BANK TRUST CO TR 1886	6825 W 111TH ST WORTH IL 60482	21860 RT 113 CUSTER PARK 60481
83	0124134040060000	LEWIS BRIAN D CYNTHIA L	21926 W HWY 113 CUSTER PARK IL 60481	
84	0124134010120000	CUSTER TWP VOL FIRE DEPT	21750 W HWY 113 CUSTER PARK IL 60481	
85	0124134010060000	ERDMANN LESTER E M J	21730 HWY 113 WILMINGTON IL 60481	
86	0124134000210000	KANG TRUST	26010 167TH PL SE	21929 SMILEY RD WILMINGTON IL

Site	PIN	Owner	Property Address	Mailing Address (if different)
			COVINGTON WA 98042	60481
87	0824134020040000	HICKS BASIL C ARLENE	34754 WURTZ RD WILMINGTON IL 60481	
88	0824134020050000	KENNEDY KATHLEEN A	34780 WURTZ RD WILMINGTON IL 60481	
89	0824134020060000	ZORUBA SERGIO M	11106 BRISTOL BEND ORLAND PARK IL 60467	S WURTZ RD WILMINGTON IL 60481
90	0824134020070000	FRITZ GREGORY R	34818 WURTZ RD WILMINGTON IL 60481	
91	0824134020180000	HISH JULIANNE	34832 WURTZ RD WILMINGTON IL 60481	
92	0824134020090000	VIANO FREDERICK C JR	34858 WURTZ RD WILMINGTON IL 60481	
93	0824134020100000	PARIS JOHN J MARY T	228 SE CIRCLE DR JOLIET IL 60433	S WURTZ RD WILMINGTON IL 60481
94	0824134020110000	LYNCH ANN M	1713 AVALON AVE JOLIET IL 60435	S WURTZ RD WILMINGTON IL 60481
95	0824134020160000	DEL FIACCO WILLIAM PATRICIA	34911 WURTZ RD WILMINGTON IL 60481	
96	0825183000410000	EGGEMEYER BRIAN S	34901 S PETERSON LN WILMINGTON IL 60481	S PETERSON LN WILMINGTON IL 60481
97	0825183000310000	OAM'S ESTATE LLC	5832 S ARCHER AVE CHICAGO IL 60638	RIVALS RD WILMINGTON IL 60481
98	0224191000170000	BUBAN THOMAS R	390 N RT 129 BRACEVILLE IL 60407	** NOT ON FILE **
99	0224191000310000	BUBAN THOMAS	390 N STATE ST RT 129BRACEVILLE IL 60407	** NOT ON FILE **
100	0224183000060000	GUTZMAN SUSAN L KEVIN W	35024 S RTE 129 BRACEVILLE IL 60407	
101	0224183000040000	BUBAN THOMAS R	390 N RT 129 BRACEVILLE IL 60407	** NOT ON FILE **
102	0224184000060000	RYMAN JEFFERY S	PO BOX 61 BRAIDWOOD IL 60408	35010 S RTE 129 BRAIDWOOD IL 60408
103	0224183000070000	BASHAM GARY J LISA A	35020 RTE 129 BRACEVILLE IL 60407	
104	0224184000320000	COWIE JOHN J AMANDA J	34960 S RTE 129 BRACEVILLE IL 60407	
105	0224184000310000	FAVERO WILLIAM BONNIE	34924 S RT 129 BRACEVILLE IL 60407	** NOT ON FILE **
106	0224184000150000	CARLO EDWARD P KAREN E	34908 S STATE RT 129 BRACEVILLE IL 60407	** NOT ON FILE **
107	0224184000290000	KOCH DANIEL	34900 S RT 129 BRACEVILLE IL 60407	** NOT ON FILE **

Site	PIN	Owner	Property Address	Mailing Address (if different)
108	0224184000330020	WAGGE ROBERT L JR KIMBERLY	34860 S RD 129 BRACEVILLE IL 60407	34860 S RT 129 BRACEVILLE IL 60407
109	0224184000100000	ALLISON WILLIAM S REV LVG TR / ALLISON LYNN M REV LVG TR	34800 S RTE 129BRACEVILLE IL 60407	** NOT ON FILE **
110	0224184000180000	KIMBRO THOMAS E KATH	34830 S RT 129 BRACEVILLE IL 60407	** NOT ON FILE **
111	0224184010060000	ALLISON WILLIAM S REV LVG TR / ALLISON LYNN M REV LVG TR	34800 S RTE 129BRACEVILLE IL 60407	** NOT ON FILE **
112	0224184010010000	ALLISON WILLIAM S REV LVG TR / ALLISON LYNN M REV LVG TR	34800 S RTE 129BRACEVILLE IL 60407	
113	0224184010050000	ZUBIK JOHN CYNTHIA M	34728 S RT 129 BRACEVILLE IL 60407	
114	0224184010040000	DHUD	8600 W BRYN MAWR STE 600 SCHICAGO IL 60631	34726 S RT 129 BRACEVILLE IL 60407
115	0224184010030000	GLOBAL R E SOLUTIONS LLC	PO BOX 775 OTTAWA IL 61350	34724 S RTE 129 BRACEVILLE IL 60407
116	0224184010020000	MOUZAKIS ANDY	34722 STATE RT 129 BRACEVILLE IL 60407	
117	0224184000110000	HILEMAN ROGER E	500 S WASHINGTON ST BRAIDWOOD IL 60408	** NOT ON FILE **
118	0224182000030000	HILEMAN PAUL ROGER	500 S WASHINGTON ST BRAIDWOOD IL 60408	298 S DIVISION ST BRAIDWOOD IL 60408
119	0224182000020000	HILEMAN ROGER E	500 S WASHINGTON ST BRAIDWOOD IL 60408	
Kankakee County[2]				
120	090606100007	VANVOORST ANITA J	PO BOX 37 201 CENTER ST UNION HILL, IL60969	** NOT ON FILE **
121	090606100009	FITZGERALD HARRY	PO BOX 99BOURBONNAIS, IL60914	
122	090605100010	DEPT OF NATURAL RESOURCES	1 NATURAL RESOURCES WAY, DIV OF REALTY SPRINGFIELD, IL62702	** NOT ON FILE **
123	090605100008	SOUTH WILMINGTON SPORTSMAN CLUB	PO BOX 175ESSEX, IL60935	** NOT ON FILE **
124	090605200002	SOUTH WILMINGTON SPORTSMAN CLUB	PO BOX 175ESSEX, IL60935	** NOT ON FILE **
125	090604100001	SOUTH WILMINGTON SPORTSMAN CLUB	PO BOX 175ESSEX, IL60935	** NOT ON FILE **
Grundy County[3]				
126	09-25-200-017	Stark, Louis J		4295 S. Kankakee Rd, Braceville IL
127	09-25-200-018	Stark, Louis J		4295 S. Kankakee Rd, Braceville IL
128	09-25-200-006	Couch, Robert/Theresa		4445 S. Kankakee Rd, Braceville IL

Site	PIN	Owner	Property Address	Mailing Address (if different)
129	09-25-200-019	Stark, Louis J		4295 S. Kankakee Rd, Braceville IL
130	09-25-200-021	Exelon/Comed		3 Lincoln Center, Oakbrook Terrace IL
131	09-25-400-002	Exelon/Comed		3 Lincoln Center, Oakbrook Terrace IL
132	09-25-400-003	Marma, Geraldine/John		8530 E. Huston Rd, Braceville IL
133	09-25-400-004	Marma, John Jr.		4715 Kankakee Rd, Braceville IL
134	09-36-200-002	Marma, Geraldine/John		8530 E. Huston Rd, Braceville IL
135	09-36-200-003	Perino, Gladys g		Apt 240 3320 Executive Dr, Joliet IL
136	09-36-400-001	Marma, Geraldine/John		8530 E. Huston Rd, Braceville IL

1. Will County parcel data obtained from http://www.willcogis.org/imf/imf.jsp?site=WebMap
2. Kankakee County parcel data obtained from http://www.k3gis.com/
3. Grundy County parcel data obtained from Tax Assessor's records.

8.0 Legal Description

The following is a summary legal description of the property that is the subject of this application, without metes and bounds:

> All of Sections 20, 29, 30, and 31; parts of Sections 13, 14, 15, 16, 17, 18, 19, 21, 28, 32. Township 32N, Range 9E, 3rd principal meridian.

Attachment 1
Illinois EPA NPDES Permit Number IL0048321
for Braidwood Generating Station

NPDES Permit No. IL0 [illegible]9321

Illinois Environmental Protection Agency

Division of Water Pollution Control

[illegible]021 [illegible]n Grand Avenue East

P.O. Box 19276

Springfield, Illinois 62794-9276

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

Modified (NPDES) Permit

Expiration Date: September 1, 2000

Issue Date: August 24, 1995
Effective Date: September 1, 1995
Modification Date: August 28, 1997

Name and Address of Permittee:

Commonwealth Edison Company
Post Office Box 767, 35 FNW
Chicago, Illinois 60690-0767

Facility Name and Address:

Commonwealth Edison Company
Braidwood Nuclear Power Station
Rural Route #1, Box 84
Braceville, Illinois 60407
(Will County)

Discharge Number and Name:

No. 001 Cooling Pond Blowdown Line
No. 001(a) Wastewater Treatment Plant Effluent
No. 001(b) Sewage Treatment Plant Effluent
No. 001(c) Radwaste Treatment System Effluent
No. 001(d) Demineralizer Regenerant Wastes
No. 001(e) Intake Screen Backwash

No. 002 North Site Stormwater Runoff Basin
No. 003 South Site Stormwater Runoff Basin
No. 004 Switchyard Area Runoff

Receiving Waters:

Kankakee River

Mazon River

In compliance with the provisions of the Illinois Environmental Protection Act; Subtitle C, Rules and Regulations of the Illinois Pollution Control Board, and the FWPCA the above-named permittee is hereby authorized to discharge at the above location to the above-named receiving stream in accordance with the standard conditions and attachments herein.

Permittee is not authorized to discharge after the above expiration date. In order to receive authorization to discharge beyond the expiration date, the permittee shall submit the proper application as required by the Illinois Environmental Protection Agency (IEPA) later than 180 days prior to the expiration date.

Thomas G. McSwiggin, P.E.
Manager, Permit Section
Division of Water Pollution Control

TGM:DEL\97041003.DLK

Modification Date: August 28, 1997

NPDES Permit No. IL0048321

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day 30 DAY AVG.	LOAD LIMITS lbs/day DAILY MAX.	CONCENTRATION LIMITS mg/l 30 DAY AVG.	CONCENTRATION LIMITS mg/l DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE

1. From the effective date of this permit until September 1, 2000, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): C01 Cooling Pond Blowdown Line*

This discharge consists of:

	Approximate Flow
1. Condenser cooling water	11.31 MGD
2. House service water	1.3 MGD
3. Essential service water	1.3 MGD
4. Demineralizer regenerant waste	0.028 MGD
5. Wastewater treatment plant effluent	0.079 MGD
6. Radwaste treatment system effluent	0.032 MGD
7. House service water strainer backwash	0.03 MGD
8. Essential service water strainer backwash	0.017 MGD
9. Sewage treatment plant effluent	0.017 MGD
10. Water treatment system filter backwashes	0.03 MGD
11. River intake screen backwash	0.112 MGD
12. Cooling pond intake screen backwash	0.4 MGD

Flow			Daily	Continuous
pH	See Special Condition No. 1		1/Week	Grab
Temperature	See Special Condition No. 3		Daily	Continuous
Total Residual Chlorine**		0.2	1/Month	Grab**
Total Residual Oxidant**		0.05	1/Month	Grab**

*See Special Condition No. 12
**See Special Condition No. 4

NPDES Permit No. IL004[illegible]

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day 30 DAY AVG.	DAILY MAX.	CONCENTRATION LIMITS mg/l 30 DAY AVG.	DAILY MAX	SAMPLE FREQUENCY	SAMPLE TYPE
1. From the effective date of this permit until September 1, 2000, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:						
Outfall(s): 001(a) Wastewater Treatment Plant Effluent						
This discharge consists of:					Approximate Flow	
1. Turbine building fire and oil sump*					0.079 MGD	
a. Turbine building floor drain tank*						
i. Turbine building floor drain sumps						
ii. Essential service water drain sumps						
iii. Condensate pit sumps						
b. Turbine building equipment drain tank*						
c. Units 1 and 2 tendon tunnel sumps						
d. Auxiliary boiler blowdown						
e. Units 1 and 2 diesel fuel storage tank sumps						
f. Oil-water separator No. 1 effluent						
g. Secondary-Side Drain Water						
2. Water treatment area floor and equipment drain sumps					Intermittent	
3. Water treatment lime-softening clarator blowdown					Intermittent	
4. Wastewater treatment system sand filter backwash					0.002 MGD	
5. Condensate polisher regenerant wastes (Alternate Route)					Intermittent	
6. Demineralizer Regenerant Waste Drains (Alternate Route)					Intermittent	
Flow					Daily	24 Hour Total
Total Suspended Solids		15.0		30.0	1/Week	24 Hour Composite
Oil and Grease		15.0		20.0	1/Month	Grab

*These wastestreams may be directed to the Radwaste Treatment System depending on the results of the process radiation monit

Modification Date: August 28, 1997

NPDES Permit No. IL0048321

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day 30 DAY AVG.	LOAD LIMITS lbs/day DAILY MAX.	CONCENTRATION LIMITS mg/l 30 DAY AVG.	CONCENTRATION LIMITS mg/l DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE
1. From the effective date of this permit until September 1, 2000, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:						
Outfall(s): 001(b) Sewage Treatment Plant Effluent**						
				Approximate Flow 0.017 MGD (DMF 0.078 MGD)		
Flow					Daily	Continuous
pH	See Special Condition No. 1				1/Week	Grab
Total Suspended Solids	19.5	39.0	30.0	60.0	1/Week	24 Hour Composite
BOD_5	19.5	39.0	30.0	60.0	1/Week	24 Hour Composite
Outfall(s): 001(c) Radwaste Treatment System Effluent						
This discharge consists of:				Approximate Flow: 0.032 MGD		
1. Steam generator condensate blowdown				Intermittent		
2. Cooling jacket blowdown				Intermittent		
3. Auxiliary building and turbine building floor drains				Intermittent		
4. Laundry waste treatment system drains				0.001 MGD		
5. Chemical and volume control system drains				Intermittent		
6. Boron recycle system blowdown				Intermittent		
7. Radwaste demineralizer regenerant wastes and filter backwash				0.002 MGD		
8. Reactor building floor and equipment drains				Intermittent		
9. Turbine building floor drain tank (Alternate Route)				Intermittent		
10. Turbine building fire and oil sump (Alternate Route)				Intermittent		
11. Turbine building equipment drain tank (Alternate Route)				Intermittent		
12. Evaporator wastewater				Intermittent		
Flow					Daily	Continuous
Total Suspended Solids			15.0	30.0	1/Week	Discharge Tank Composite
Oil and Grease			15.0	20.0	1/Month	Grab

**Outfall No. 001(b) Sewage Treatment Plant Effluent will normally be discharged to the Kankakee River via the cooling pond blowdown line. The existing outfall to the Mazon River will be maintained as an emergency backup. The permittee shall give notice to the Agency any emergency discharge to the Mazon River. Applicable effluent limitations shall apply.

NPDES Permit No. IL0[illegible]321

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day 30 DAY AVG.	LOAD LIMITS lbs/day DAILY MAX.	CONCENTRATION mg/L 30 DAY AVG.	CONCENTRATION mg/L DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE

1. From the effective date of this permit until September 1, 2000, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 001(d) Demineralizer Regenerant Wastes

This discharge consists of

Approximate Flow
0.028 MGD

1. Make-up demineralizer regenerant waste***
2. Condensate polisher regenerate waste***
3. Regenerant chemical area drains
4. Portable Demineralizer Regenerant Wastes

Flow			Daily	Continuous
Total Suspended Solids	15.0	30.0	1/Week	8 Hour Composite

***This wastestream may be alternately routed to the wastewater treatment system.

Outfall(s): 001(e) River Intake Screen Backwash

There shall be no discharge of collected debris.

Modification Date: August 28, 1997

NPDES Permit No. IL0048321

Effluent Limitations and Monitoring

PARAMETER	LOAD LIMITS lbs/day 30 DAY AVG.	LOAD LIMITS lbs/day DAILY MAX.	CONCENTRATION LIMITS mg/l 30 DAY AVG.	CONCENTRATION LIMITS mg/l DAILY MAX.	SAMPLE FREQUENCY	SAMPLE TYPE

1 From the effective date of this permit until September 1, 2000, the effluent of the following discharge(s) shall be monitored and limited at all times as follows:

Outfall(s): 002 North Site Stormwater Runoff Basin

This discharge consists of:	Approximate Flow:
1. Parking lot runoff	Intermittent
2. Transformer area runoff	Intermittent
3. North station area runoff	Intermittent
4. Turbine building, auxiliary building and waste treatment building roof drains	Intermittent

See Special Condition No. 8

Outfall(s): 003 South Site Stormwater Runoff Basin

Approximate Flow

Intermittent

See Special Condition No. 8

Outfall(s): 004 Switchyard Area Runoff

Approximate Flow

Intermittent

See Special Condition No. 8

IL0048321

NPDES Permit No. IL0048321

8-28-97

Special Conditions

SPECIAL CONDITION 1. The pH shall be in the range 6.0 to

SPECIAL CONDITION 2. Samples taken in compliance with the effluent monitoring requirements shall be taken at a point representative of the discharge but prior to entry into the receiving stream.

SPECIAL CONDITION 3. Discharge of wastewater from this facility must not alone or in combination with other sources cause the receiving stream to violate the following thermal limitations at the edge of the mixing zone which is defined by Section 302.211, Illinois Administration Code, Title 35, Chapter 1, Subtitle C, as amended:

A. Maximum temperature rise above natural temperature must not exceed 5°F (2.8°C).

B. Water temperature at representative locations in the main river shall not exceed the maximum limits in the following table during more than one (1) percent of the hours in the 12-month period ending with any month. Moreover, at no time shall the water temperature at such locations exceed the maximum limits in the following table by more than 3°F (1.7°C). (Main river temperatures are temperatures of those portions of the river essentially similar to and following the same thermal regime as the temperatures of the main flow of the river.)

	Jan.	Feb.	Mar.	Apr.	May	June	July	Aug.	Sept.	Oct.	Nov.	Dec.
°F	60	60	60	90	90	90	90	90	90	90	90	60
°C	16	16	16	32	32	32	32	32	32	32	32	16

SPECIAL CONDITION 4. Chlorine or bromine may not be discharged from each unit's main cooling condensers for more than two hours per day. The reported mean concentration and maximum concentration of Total Residual Chlorine/Total Residual Oxidant (TRC/TRO) shall be based on a minimum of three grab samples taken at approximately five minute intervals at Outfall 001. The time samples were collected, the time and duration of oxidant dosing period plus the monthly average and daily maximum amount oxidant applied shall be reported on the Discharge Monitoring Reports. The reported average concentration of TRC/TRO is the average of all values measured for a sampling event and the reported maximum concentration is the highest value measured in a single grab sample. Discharge Monitoring Reports shall indicate whether bromine and/or chlorine compounds were used during the month. A discharge limit, as measured at the blowdown to the Kankakee River, of 0.05 mg/l (instantaneous maximum) shall be achieved for total residual oxidant (total residual chlorine/total residual halogen) when bromine biocides are used for condenser biofouling control.

SPECIAL CONDITION 5. There shall be no discharge of polychlorinated biphenyl compounds.

SPECIAL CONDITION 6. There shall be no discharge of complexed metal bearing wastestreams or associated rinses from chemical metal cleaning unless this permit has been modified to include the new discharge.

SPECIAL CONDITION 7.

A. Intake impacts will be reduced by limiting pumping from the river during the peak entrainment period. For a four-week period (last three weeks in May and first week in June), pumping will be allowed only during the day (between one hour after sunrise and one hour before sunset). In addition, during the four-week period, pumping will be minimized during the day. Pumping will occur when needed to fill the freshwater holding pond and to maintain efficient operation of the cooling pond. In an extreme emergency, and upon immediate notification of the Agency, pumping could occur at night. Such pumping would cease as soon as the emergency was over. Records of all pumping during the four-week period will be maintained. Such records will include dates, number of pumps operating and start and end times.

SPECIAL CONDITION 8.

STORM WATER POLLUTION PREVENTION PLAN (SWPPP)

A. A storm water pollution prevention plan shall be developed by the permittee for the storm water associated with industrial activity at this facility. The plan shall identify potential sources of pollution which may be expected to affect the quality of storm water discharges associated with the industrial activity at the facility. In addition, the plan shall describe and ensure the implementation of practices which are to be used to reduce the pollutants in storm water discharges associated with industrial activity at the facility and to assure compliance with the terms and conditions of this permit.

B. The plan shall be completed within 180 days of the effective date of this permit. Plans shall provide for compliance with the terms of the plan within 365 days of the effective date of this permit. The owner or operator of the facility shall make a copy of the plan available to the Agency at any reasonable time upon request. [Note: If the plan has already been developed and implemented, it shall be maintained in accordance with all requirements of this special condition.]

C. The permittee may be notified by the Agency at any time that the plan does not meet the requirements of this condition. After such notification, the permittee shall make changes to the plan and shall submit a written certification that the requested changes have been made. Unless otherwise provided, the permittee shall have 30 days after such notification to make the changes.

D. The discharger shall amend the plan whenever there is a change in construction, operation, or maintenance which may affect the discharge of significant quantities of pollutants to the waters of the State or if a facility inspection required by paragraph G of this condition indicates that an amendment is needed. The plan should also be amended if the discharger is in violation of any conditions of this permit, or has not achieved the general objective of controlling pollutants in storm water discharges. Amendments to the plan shall be made within the shortest reasonable period of time, and shall be provided to the Agency for review upon request.

E. The plan shall provide a description of potential sources which may be expected to add significant quantities of pollutants to storm water discharges, or which may result in non-storm water discharges from storm water outfalls at the facility. The plan shall include, at a minimum, the following items:

1. A topographic map extending one-quarter mile beyond the property boundaries of the facility, showing: the facility, surface water bodies, wells (including injection wells), seepage pits, infiltration ponds, and the discharge points where the facility's storm water discharges to a municipal storm drain system or other water body. The requirements of this paragraph may be included on the site map if appropriate.

2. A site map showing:

   i. The storm water conveyance and discharge structures;

   ii. An outline of the storm water drainage areas for each storm water discharge point;

   iii. Paved areas and buildings;

   iv. Areas used for outdoor manufacturing, storage, or disposal of significant materials, including activities that generate significant quantities of dust or particulates.

   v. Location of existing storm water structural control measures (dikes, coverings, detention facilities, etc.);

   vi. Surface water locations and/or municipal storm drain locations

   vii. Areas of existing and potential soil erosion;

   viii. Vehicle service areas;

   ix. Material loading, unloading, and access areas.

3. A narrative description of the following:

   i. The nature of the industrial activities conducted at the site, including a description of significant materials that are treated, stored or disposed of in a manner to allow exposure to storm water;

   ii. Materials, equipment, and vehicle management practices employed to minimize contact of significant materials with storm water discharges;

   iii. Existing structural and non-structural control measures to reduce pollutants in storm water discharges;

   iv. Industrial storm water discharge treatment facilities;

   v. Methods of onsite storage and disposal of significant materials;

4. A list of the types of pollutants that have a reasonable potential to be present in storm water discharges in significant quantities.

5. An estimate of the size of the facility in acres or square feet, and the percent of the facility that has impervious areas such as pavement or buildings.

6. A summary of existing sampling data describing pollutants in storm water discharges.

F. The plan shall describe the storm water management controls which will be implemented by the facility. The appropriate controls shall reflect identified existing and potential sources of pollutants at the facility. The description of the storm water management controls shall include:

1. Storm Water Pollution Prevention Personnel - Identification by job titles of the individuals who are responsible for developing, implementing, and revising the plan.

2. Preventive Maintenance - Procedures for inspection and maintenance of storm water conveyance system devices such as oil/water separators, catch basins, etc., and inspection and testing of plant equipment and systems that could fail and result in discharges of pollutants to storm water.

3. Good Housekeeping - Good housekeeping requires the maintenance of clean, orderly facility areas that discharge storm water. Material handling areas shall be inspected and cleaned to reduce the potential for pollutants to enter the storm water conveyance system.

4. Spill Prevention and Response - Identification of areas where significant materials can spill into or otherwise enter the storm water conveyance systems and their accompanying drainage points. Specific material handling procedures, storage requirements, spill clean up equipment and procedures should be identified, as appropriate. Internal notification procedures for spills of significant materials should be established.

5. Storm Water Management Practices - Storm water management practices are practices other than those which control the source of pollutants. They include measures such as installing oil and grit separators, diverting storm water into retention basins, etc. Based on assessment of the potential of various sources to contribute pollutants, measures to remove pollutants from storm water discharge shall be implemented. In developing the plan, the following management practices shall be considered:

   i. Containment - Storage within berms or other secondary containment devices to prevent leaks and spills from entering storm water runoff;

   ii. Oil & Grease Separation - Oil/water separators, booms, skimmers or other methods to minimize oil contaminated storm water discharges;

   iii. Debris & Sediment Control - Screens, booms, sediment ponds or other methods to reduce debris and sediment in storm water discharges;

iv. Waste Chemical Disposal - Waste chemicals such as antifreeze, degreasers and used oils shall be recycled or disposed of in an approved manner and in a way which prevents them from entering storm water discharges.

v. Storm Water Diversion - Storm water diversion away from materials manufacturing, storage and other areas of potential storm water contamination.

vi. Covered Storage or Manufacturing Areas - Covered fueling operations, materials manufacturing and storage areas to prevent contact with storm water.

6. Sediment and Erosion Prevention - The plan shall identify areas which due to topography, activities, or other factors, have a high potential for significant soil erosion and describe measures to limit erosion.

7. Employee Training - Employee training programs shall inform personnel at all levels of responsibility of the components and goals of the storm water pollution control plan. Training should address topics such as spill response, good housekeeping and material management practices. The plan shall identify periodic dates for such training.

8. Inspection Procedures - Qualified plant personnel shall be identified to inspect designated equipment and plant areas. A tracking or follow-up procedure shall be used to ensure appropriate response has been taken in response to an inspection. Inspections and maintenance activities shall be documented and recorded.

G. The permittee shall conduct an annual facility inspection to verify that all elements of the plan, including the site map, potential pollutant sources, and structural and non-structural controls to reduce pollutants in industrial storm water discharges are accurate. Observations that require a response and the appropriate response to the observation shall be retained as part of the plan. Records documenting significant observations made during the site inspection shall be submitted to the Agency in accordance with the reporting requirements of this permit.

H. This plan should briefly describe the appropriate elements of other program requirements, including Spill Prevention Control and Countermeasures (SPCC) plans required under Section 311 of the CWA and the regulations promulgated thereunder, and Best Management Programs under 40 CFR 125.100.

I. The plan is considered a report that shall be available to the public under Section 308(b) of the CWA. The permittee may claim portions of the plan as confidential business information, including any portion describing facility security measures.

J. The plan shall include the signature and title of the person responsible for preparation of the plan and include the date of initial preparation and each amendment thereto.

REPORTING

K. The facility shall submit an annual inspection report to the Illinois Environmental Protection Agency. The report shall include results of the annual facility inspection which is required by Part G of the Storm Water Pollution Prevention Plan of this permit. The report shall also include documentation of any event (spill, treatment unit malfunction, etc.) which would require an inspection, results of the inspection, and any subsequent corrective maintenance activity. The report shall be completed and signed by the authorized facility employee(s) who conducted the inspection(s).

L. The first report shall contain information gathered during the one year time period beginning with the effective date of coverage under this permit and shall be submitted no later than 60 days after this one year period has expired. Each subsequent report shall contain the previous year's information and shall be submitted no later than one year after the previous year's report was due.

M. Annual inspection reports shall be mailed to the following address:

Special Conditions

Illinois Environmental Protection Agency
Division of Water Pollution Control
Compliance Assurance Section
Annual Inspection Report
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

N. If the facility performs inspections more frequently than required by this permit, the results shall be included as additional information in the annual report.

SPECIAL CONDITION 9. Discharge of station cooling pond water to adjacent impoundments owned by the permittee, to replace water which is withdrawn from these impoundments for station operations during periods of low flows in the Kankakee River when the station must decouple its operations from the river, is hereby permitted for these emergency periods. No monitoring is required for this permitted activity. The IEPA shall be promptly notified during such operations.

SPECIAL CONDITION 10. The permittee shall record monitoring results on Discharge Monitoring Report Forms using one such form for each discharge each month.

The completed Discharge Monitoring Report forms shall be submitted to IEPA no later than the 28th of the following month, unless otherwise specified by the the permitting authority.

Discharge Monitoring Reports shall be mailed to the IEPA at the following address:

Illinois Environmental Protection Agency
Division of Water Pollution Control
1021 North Grand Avenue East
Springfield, Illinois 62706

Attention: Compliance Assurance Section

SPECIAL CONDITION 11. The "upset" defense provisions of Title 40, Section 122.41(n) of the Federal Regulations are hereby incorporated into this permit by reference.

SPECIAL CONDITION 12. An emergency cooling pond overflow exists tributary to an unnamed drainage ditch which is tributary to the Mazon River. Discharges from this overflow shall be subject to the bypass provisions of 40 CFR 122.41(m).

X1 SPECIAL CONDITION 13. The permittee shall submit a completed Form 2F as soon as conditions allow, for Outfall 002 and Outfall 003. Based on the new information the Agency may choose to modify the permit after public notice and opportunity for hearing.

SPECIAL CONDITION 14. For Discharge No. 001(b), any use of chlorine to control slime growths, odors or as an operational control, etc. shall not exceed the limit of 0.05 mg/l (daily maximum) total residual chlorine in the effluent. Sampling is required on a daily grab basis during the chlorination process. Reporting shall be submitted on the (DMR's) on a monthly basis.

SPECIAL CONDITION 15. Flow shall be reported as a daily maximum and a monthly average, and shall be reported in Million Gallons per Day.

Attachment H

Standard Conditions

Definitions

Act means the Illinois Environmental Protection Act, 415 ILCS 5 as Amended.

Agency means the Illinois Environmental Protection Agency.

Board means the Illinois Pollution Control Board.

Clean Water Act (formerly referred to as the Federal Water Pollution Control Act) means Pub. L 92-500, as amended. 33 U.S.C. 1251 et seq.

NPDES (National Pollutant Discharge Elimination System) means the national program for issuing, modifying, revoking and reissuing, terminating, monitoring and enforcing permits, and imposing and enforcing pretreatment requirements, under Sections 307, 402, 318 and 405 of the Clean Water Act.

USEPA means the United States Environmental Protection Agency.

Daily Discharge means the discharge of a pollutant measured during a calendar day or any 24-hour period that reasonably represents the calendar day for purposes of sampling. For pollutants with limitations expressed in units of mass, the "daily discharge" is calculated as the total mass of the pollutant discharged over the day. For pollutants with limitations expressed in other units of measurements, the "daily discharge" is calculated as the average measurement of the pollutant over the day.

Maximum Daily Discharge Limitation (daily maximum) means the highest allowable daily discharge.

Average Monthly Discharge Limitation (30 day average) means the highest allowable average of daily discharges over a calendar month, calculated as the sum of all daily discharges measured during a calendar month divided by the number of daily discharges measured during that month.

Average Weekly Discharge Limitation (7 day average) means the highest allowable average of daily discharges over a calendar week, calculated as the sum of all daily discharges measured during a calendar week divided by the number of daily discharges measured during that week.

Best Management Practices (BMPs) means schedules of activities, prohibitions of practices, maintenance procedures, and other management practices to prevent or reduce the pollution of waters of the State. BMPs also include treatment requirements, operating procedures, and practices to control plant site runoff, spillage or leaks, sludge or waste disposal, or drainage from raw material storage.

Aliquot means a sample of specified volume used to make up a total composite sample.

Grab Sample means an individual sample of at least 100 milliliters collected at a randomly-selected time over a period not exceeding 15 minutes.

24 Hour Composite Sample means a combination of at least 8 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over a 24-hour period.

8 Hour Composite Sample means a combination of at least 3 sample aliquots of at least 100 milliliters, collected at periodic intervals during the operating hours of a facility over an 8-hour period.

Flow Proportional Composite Sample means a combination of sample aliquots of at least 100 milliliters collected at periodic intervals such that either the time interval between each aliquot or the volume of each aliquot is proportional to either the stream flow at the time of sampling or the total stream flow since the collection of the previous aliquot.

(1) **Duty to comply.** The permittee must comply with all conditions of this permit. Any permit noncompliance constitutes a violation of the Act and is grounds for enforcement action, permit termination, revocation and reissuance, modification, or for denial of a permit renewal application. The permittee shall comply with effluent standards or prohibitions established under Section 307(a) of the Clean Water Act for toxic pollutants within the time provided in the regulations that establish these standards or prohibitions, even if the permit has not yet been modified to incorporate the requirement.

(2) **Duty to reapply.** If the permittee wishes to continue an activity regulated by this permit after the expiration date of this permit, the permittee must apply for and obtain a new permit. If the permittee submits a proper application as required by the Agency no later than 180 days prior to the expiration date, this permit shall continue in full force and effect until the final Agency decision on the application has been made.

(3) **Need to halt or reduce activity not a defense.** It shall not be a defense for a permittee in an enforcement action that it would have been necessary to halt or reduce the permitted activity in order to maintain compliance with the conditions of this permit.

(4) **Duty to mitigate.** The permittee shall take all reasonable steps to minimize or prevent any discharge in violation of this permit which has a reasonable likelihood of adversely affecting human health or the environment.

(5) **Proper operation and maintenance.** The permittee shall at all times properly operate and maintain all facilities and systems of treatment and control (and related appurtenances) which are installed or used by the permittee to achieve compliance with conditions of this permit. Proper operation and maintenance includes effective performance, adequate funding, adequate operator staffing and training, and adequate laboratory and process controls, including appropriate quality assurance procedures. This provision requires the operation of back-up, or auxiliary facilities, or similar systems only when necessary to achieve compliance with the conditions of the permit.

(6) **Permit actions.** This permit may be modified, revoked and reissued, or terminated for cause by the Agency pursuant to 40 CFR 122.62. The filing of a request by the permittee for a permit modification, revocation and reissuance, or termination, or notification of planned changes or anticipated noncompliance, does not stay any permit condition.

(7) **Property rights.** This permit does not convey any property rights of any sort, or any exclusive privilege.

(8) **Duty to provide information.** The permittee shall furnish to the Agency within a reasonable time, any information which the Agency may request to determine whether cause exists for modifying, revoking and reissuing, or terminating this permit, or to determine compliance with the permit. The permittee shall also furnish to the Agency upon request, copies of records required to be kept by this permit.

(9) **Inspection and entry.** The permittee shall allow an authorized representative of the Agency, upon the presentation of credentials and other documents as may be required by law, to:

(a) Enter upon the permittee's premises where a regulated facility or activity is located or conducted, or where records must be kept under the conditions of the permit;

(b) Have access to and copy, at reasonable times, any records that must be kept under the conditions of this permit;

(c) Inspect at reasonable times any facilities, equipment (including monitoring and control equipment), practices, or operations regulated or required under the permit; and

(d) Sample or monitor at reasonable times, for the purpose of assuring permit compliance, or as otherwise authorized by the Act, any substances or parameters at any location.

(10) **Monitoring and records.**

(a) Samples and measurements taken for the purpose of monitoring shall be representative of the monitored activity.

(b) The permittee shall retain records of all monitoring information, including all calibration and maintenance records, and all original strip chart recordings for continuous monitoring instrumentation, copies of all reports required by the permit, and records of all data used to complete the application for this permit, for a period of at least 3 years from the date of this permit, measurement, report or application. This period may be extended by request of the Agency at any time.

(c) Records of monitoring information shall include:

(1) The date, exact place, and time of sampling or measurements;

(2) The individual(s) who performed the sampling or measurements;

(3) The date(s) analyses were performed;

(4) The individual(s) who performed the analyses;

(5) The analytical techniques or methods used; and

(6) The results of such analyses.

(d) Monitoring must be conducted according to test procedures approved under 40 CFR Part 136, unless other test procedures have been specified in this permit. Where no test procedure under 40 CFR Part 136 has been approved, the permittee must submit to the Agency a test method for approval. The permittee shall calibrate and perform maintenance procedures on all monitoring and analytical instrumentation at intervals to ensure accuracy of measurements.

(11) **Signatory requirement.** All applications, reports or information submitted to the Agency shall be signed and certified.

(a) **Application.** All permit applications shall be signed as follows:

(1) **For a corporation:** by a principal executive officer of at least the level of vice president or a person or position having overall responsibility for environmental matters for the corporation;

(2) **For a partnership or sole proprietorship:** by a general partner or the proprietor, respectively; or

(3) **For a municipality, State, Federal, or other public agency:** by either principal executive officer or ranking elected official.

(b) **Reports.** All reports required by permits, or other information requested by the Agency shall be signed by a person described in paragraph (a) or by a duly authorized representative of that person. A person is a duly authorized representative only if:

(1) The authorization is made in writing by a person described in paragraph (a) and

(2) The authorization specifies either an individual or a position responsible for the overall operation of the facility, from which the discharge originates, such as a plant manager, superintendent or person of equivalent responsibility; and

(3) The written authorization is submitted to the Agency.

(c) **Changes of Authorization.** If an authorization under (b) is no longer accurate because a different individual or position has responsibility for the overall operation of the facility, a new authorization satisfying the requirements of (b) must be submitted to the Agency prior to or together with any reports, information, or applications to be signed by an authorized representative.

(12) **Reporting requirements.**

(a) **Planned changes.** The permittee shall give notice to the Agency as soon as possible of any planned physical alterations or additions to the permitted facility.

(b) **Anticipated noncompliance.** The permittee shall give advance notice to the Agency of any planned changes in the permitted facility or activity which may result in noncompliance with permit requirements.

(c) **Compliance schedules.** Reports of compliance or noncompliance with, or any progress reports on, interim and final requirements contained in any compliance schedule of this permit shall be submitted no later than 14 days following each schedule date.

(d) **Monitoring reports.** Monitoring results shall be reported at the intervals specified elsewhere in this permit.

(1) Monitoring results must be reported on a Discharge Monitoring Report (DMR).

(2) If the permittee monitors any pollutant more frequently than required by the permit, using test procedures approved under 40 CFR 136 or as specified in the permit, the results of this monitoring shall be included in the calculation and reporting of the data submitted in the DMR.

(3) Calculations for all limitations which require averaging of measurements shall utilize an arithmetic mean unless otherwise specified by the Agency in the permit.

(e) **Twenty-four hour reporting.** The permittee shall report any noncompliance which may endanger health or the environment. Any information shall be provided orally within 24 hours from the time the permittee becomes aware of the circumstances. A written submission shall also be provided within 5 days of the time the permittee becomes aware of the circumstances. The written submission shall contain a description of the noncompliance and its cause; the period of noncompliance, including exact dates and time; and if the noncompliance has not been corrected, the anticipated time it is expected to continue; and steps taken or planned to reduce, eliminate, and prevent reoccurrence of the noncompliance. The following shall be included as information which must be reported within 24 hours:

(1) Any unanticipated bypass which exceeds any effluent limitation in the permit;

(2) Violation of a maximum daily discharge limitation for any of the pollutants listed by the Agency in the permit to be reported within 24 hours.

The Agency may waive the written report on a case-by-case basis if the oral report has been received within 24 hours.

(f) **Other noncompliance.** The permittee shall report all instances of noncompliance not reported under paragraphs (12)(c), (d), or (e), at the time monitoring reports are submitted. The reports shall contain the information listed in paragraph (12)(e).

(g) **Other information.** Where the permittee becomes aware that it failed to submit any relevant facts in a permit application, or submitted incorrect information in a permit application, or in any report to the Agency, it shall promptly submit such facts or information.

(13) **Transfer of permits.** A permit may be automatically transferred to a new permittee if:

(a) The current permittee notifies the Agency at least 30 days in advance of the proposed transfer date;

(b) The notice includes a written agreement between the existing and new permittees containing a specific date for transfer of permit responsibility, coverage and liability between the current and new permittees; and

(c) The Agency does not notify the existing permittee and the proposed new permittee of its intent to modify or revoke and reissue the permit. If this notice is not received, the transfer is effective on the date specified in the agreement.

(14) All manufacturing, commercial, mining, and silvicultural dischargers must notify the Agency as soon as they know or have reason to believe:

(a) That any activity has occurred or will occur which would result in the discharge of any toxic pollutant identified under Section 307 of the Clean Water Act which is not limited in the permit, if that discharge will exceed the highest of the following notification levels:

(1) One hundred micrograms per liter (100 ug/l);

(2) Two hundred micrograms per liter (200 ug/l) for acrolein and acrylonitrile; five hundred micrograms per liter (500 ug/l) for 2,4-dinitrophenol and for 2-methyl-4,6 dinitrophenol; and one milligram per liter (1 mg/l) for antimony.

(3) Five (5) times the maximum concentration value reported for that pollutant in the NPDES permit application; or

(4) The level established by the Agency in this permit.

(b) That they have begun or expect to begin to use or manufacture as an intermediate or final product or byproduct any toxic pollutant which was not reported in the NPDES permit application.

(15) All Publicly Owned Treatment Works (POTWs) must provide adequate notice to the Agency of the following:

(a) Any new introduction of pollutants into that POTW from an indirect discharger which would be subject to Sections 301 or 306 of the Clean Water Act if it were directly discharging those pollutants; and

(b) Any substantial change in the volume or character of pollutants being introduced into that POTW by a source introducing pollutants into the POTW at the time of issuance of the permit.

(c) For purposes of this paragraph, adequate notice shall include information on (i) the quality and quantity of effluent introduced into the POTW, and (ii) any anticipated impact of the change on the quantity or quality of effluent to be discharged from the POTW.

(16) If the permit is issued to a publicly owned or publicly regulated treatment works, the permittee shall require any industrial user of such treatment works to comply with federal requirements concerning:

(a) User charges pursuant to Section 204(b) of the Clean Water Act, and applicable regulations appearing in 40 CFR 35;

(b) Toxic pollutant effluent standards and pretreatment standards pursuant to Section 307 of the Clean Water Act; and

(c) Inspection, monitoring and entry pursuant to Section 308 of the Clean Water Act

(17) If an applicable standard or limitation is promulgated under Section 301(b)(2)(C) and (D), 304(b)(2), or 307(a)(2) and that effluent standard or limitation is more stringent than any effluent limitation in the permit, or controls a pollutant not limited in the permit, the permit shall be promptly modified or revoked, and reissued to conform to that effluent standard or limitation.

(18) Any authorization to construct issued to the permittee pursuant to 35 Ill. Adm. Code 309.154 is hereby incorporated by reference as a condition of this permit.

(19) The permittee shall not make any false statement, representation or certification in any application, record, report, plan or other document submitted to the Agency or the USEPA, or required to be maintained under this permit.

(20) The Clean Water Act provides that any person who violates a permit condition implementing Sections 301, 302, 306, 307, 308, 318, or 405 of the Clean Water Act is subject to a civil penalty not to exceed $10,000 per day of such violation. Any person who willfully or negligently violates permit conditions implementing Sections 301, 302, 306, 307, or 308 of the Clean Water Act is subject to a fine of not less than $2,500 nor more than $25,000 per day of violation, or by imprisonment for not more than one year, or both.

(21) The Clean Water Act provides that any person who falsifies, tampers with, or knowingly renders inaccurate any monitoring device or method required to be maintained under permit shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(22) The Clean Water Act provides that any person who knowingly makes any false statement, representation, or certification in any record or other document submitted or required to be maintained under this permit shall, including monitoring reports or reports of compliance or non-compliance shall, upon conviction, be punished by a fine of not more than $10,000 per violation, or by imprisonment for not more than 6 months per violation, or by both.

(23) Collected screening, slurries, sludges, and other solids shall be disposed of in such a manner as to prevent entry of those wastes (or runoff from the wastes) into waters of the State. The proper authorization for such disposal shall be obtained from the Agency and is incorporated as part hereof by reference.

(24) In case of conflict between these standard conditions and any other condition(s) included in this permit, the other condition(s) shall govern.

(25) The permittee shall comply with, in addition to the requirements of the permit, all applicable provisions of 35 Ill. Adm. Code, Subtitle C, Subtitle D, Subtitle E, and all applicable orders of the Board.

(26) The provisions of this permit are severable, and if any provision of this permit, or the application of any provision of this permit is held invalid, the remaining provisions of this permit shall continue in full force and effect.

Attachment 2
Application for Renewal of
Illinois EPA NPDES Permit Number IL0048321
for Braidwood Generating Station

Commonwealth Edison Company
1400 Opus Place
Downers Grove, IL 60515-5701

ComEd

February 29, 2000

CERTIFIED MAIL

Mr. Thomas G. McSwiggin, P. E.
Manager, Permit Section
Water Pollution Control, Permit Section #15
Illinois Environmental Protection Agency
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: Renewal of NPDES Permit No. IL0048321
Braidwood Nuclear Generating Station

Dear Mr. McSwiggin:

Commonwealth Edison Company hereby submits two copies of Consolidated Permit Application Forms 1 and 2C for the renewal of the subject permit. As confirmed by your letter dated July 24, 1997, the only Form 2C, Part V-A pollutants reported are those required by the station's existing NPDES permit, and no analytical data is presented for outfalls 001(e) – Intake Screen Backwash, 002 – North Site Stormwater Runoff Basin, 003 – South Site Stormwater Runoff Basin, and 004 – Switchyard Area Runoff. Additionally, pollutants categorized as GC/MS Fraction Compounds in Part V-C are not reported for any outfalls, as per your letter received on February 4, 1998.

Pollutant levels for all permit-required parameters were derived from station data reported from June 1998 through May 1999. In most cases, only one analysis was conducted for all other pollutant data. All color analyses were performed as "true" (i.e., the samples were centrifuged prior to analysis). Mass load values were calculated using long term average flows.

Form 2C, Part IIB requires descriptions of wastewater treatment processes. In addition to this requirement, we are listing the water treatment additives that have the potential of being discharged by way of various outfalls. Material Safety Data Sheets (MSDS) have been enclosed where available.

Outfall 001 – Cooling Pond Blowdown, receives no treatment as wastewater, however, the circulating water and service water systems are treated for scale inhibition, silt dispersion, corrosion inhibition and biofouling control as follows:

DepositTrol BL5400, a liquid acidic scale inhibitor consisting of 60% 1-Hydroxyethylidene-1, 1-DiPhosphonic Acid (HEDP), is applied to the cooling systems at a concentration of approximately 10 to 65 parts per billion (ppb) as product to minimize the risk of calcium carbonate scale formation. Either DepositTrol PY5203, a 50% active blend of polyacrylic acid (PAA), or Dianodic DN2300, a 30% active blend of the polyacrylic acid based copolymer HPS-1, is applied to the service water systems to aid in silt dispersion. FloGard POT6102, a polyphosphate corrosion inhibitor containing 35% sodium hexametaphosphate, is applied to the service water systems to inhibit corrosion. Lastly, the circulating water and service water systems are treated with sodium hypochlorite and sodium bromide for biofouling control.

Outfall 001(a) – Wastewater Treatment Plant Effluent, may be treated with cationic and anionic polymers to aid coagulation/flocculation. There also exists a slight possibility that a small amount of nitrite may be discharged from outfall 001(a) when the station's closed cycle bearing cooling water system is drained for service. This system is treated with 400 mg/L nitrite, but occurrences of release are expected to be very rare. In the past, the system's 5000 gallon holding tank has discharged, at most, once per year. Due to the fact that this system discharges into outfall 001(c) and that nitrites degrade rapidly under aerobic conditions, we believe that the environmental impact of such a discharge is minimal.

Outfall 001(b) – Sewage Treatment Plant Effluent, may be treated with sodium bicarbonate for pH adjustment and carbonate addition during the treatment process.

Outfall 001(d) – Demineralizer Regenerant Wastes, consists of excess sulfuric acid, excess caustic, and rinse water used to regenerate the ion exchange the ion exchange resin beds that supply ultra-pure water required by the generating process. Additionally, please note that the station utilizes a portable demineralizer system to supplement demineralized water make-up. This portable system utilizes reverse osmosis (RO), electrodialysis reversal (EDR), and ultra-filtration (UF) technologies. Reject from the EDR and UF systems are recycled. Reject from the RO unit combines with regenerant wastes from the demineralizer system and is discharged via outfall 001(d).

In addition to the chemicals listed above, secondary-side steam water (non-radioactive) containing hydrazine is discharged to the Kankakee River via Outfall 001 during unit outages. These outages typically result in the semi-annual discharge of about 200,000 gallons of a 100 mg/l hydrazine solution. This solution is discharged to the cooling pond at approximately 55 GPM via the station's wastewater treatment plant - Outfall 001a, resulting in a maximum possible hydrazine concentration of 2.7 ug/l in the cooling pond blowdown (Outfall 001). Please note that this concentration is overly conservative as no dilution from other sources is considered; hydrazine readily undergoes a degradation reaction to ammonia in the presence of oxygen; and this discharge must travel the entire length of the cooling pond prior to reaching the blowdown point (approximately 4.5 days travel time). Also, the station has the ability to utilize Nalco Elimin-Ox, a carbohydrazide-based product, in place of hydrazine to lay up the steam generators during unit outages.

Lastly, no chemical treatment is applied to outfall 001(e) – Intake Screen Backwash.

Agency guidance relative to previous NPDES permit applications for ComEd nuclear generating stations indicated a need to provide additional detail on the contributing wastestreams for each outfall. As such, we request that the new permit be amended to reflect that the following systems discharge via outfall 001(a) – Wastewater Treatment Plant Effluent:

Under 1. Turbine building fire and oil sump; please add:

h. Miscellaneous non-contaminated auxiliary building drains

Should you have any questions, or require additional information, please call Kevin K. Hersey at (630) 663-3094.

Sincerely,

George Vanderheyden
Generation Support Vice President

k/sheila/letters/braidwood renewal.doc

Enclosure (2 copies)

Form Approved. OMB No. 2040-0086 Approval expires 7-31-88

(Fill—in areas are spaced for elite type, i.e., 12 characters/inch).

FORM 1 GENERAL — EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY

GENERAL INFORMATION

Consolidated Permits Program

(Read the "General Instructions" before starting.)

I. EPA NUMBER: F ILD000800505 (F/A: D)

LABEL ITEMS

I. EPA I.D. NUMBER

III. FACILITY NAME

V. FACILITY MAILING ADDRESS

VI. FACILITY LOCATION

GENERAL INSTRUCTIONS

If a preprinted label has been provided, affix it in the designated space. Review the information carefully; if any of it is incorrect, cross through it and enter the correct data in the appropriate fill—in area below. Also, if any of the preprinted data is absent (the area to the left of the label space lists the information that should appear), please provide it in the proper fill—in area(s) below. If the label is complete and correct, you need not complete Items I, III, V, and VI (except VI-B which must be completed regardless). Complete all items if no label has been provided. Refer to the instructions for detailed item descriptions and for the legal authorizations under which this data is collected.

II. POLLUTANT CHARACTERISTICS

INSTRUCTIONS: Complete A through J to determine whether you need to submit any permit application forms to the EPA. If you answer "yes" to any questions, you must submit this form and the supplemental form listed in the parenthesis following the question. Mark "X" in the box in the third column if the supplemental form is attached. If you answer "no" to each question, you need not submit any of these forms. You may answer "no" if your activity is excluded from permit requirements; see Section C of the instructions. See also, Section D of the instructions for definitions of bold—faced terms.

SPECIFIC QUESTIONS	MARK 'X' YES	NO	FORM ATTACHED
A. Is this facility a publicly owned treatment works which results in a discharge to waters of the U.S.?		X	
B. Does or will this facility (either existing or proposed) include a concentrated animal feeding operation or aquatic animal production facility which results in a discharge to waters of the U.S.?		X	
C. Is this a facility which currently results in discharges to waters of the U.S. other than those described in A or B above?	X		X
D. Is this a proposed facility (other than those described in A or B above) which will result in a discharge to waters of the U.S.?		X	
E. Does or will this facility treat, store, or dispose of hazardous wastes?		X	
F. Do you or will you inject at this facility industrial or municipal effluent below the lowermost stratum containing, within one quarter mile of the well bore, underground sources of drinking water?		X	
G. Do you or will you inject at this facility any produced water or other fluids which are brought to the surface in connection with conventional oil or natural gas production, inject fluids used for enhanced recovery of oil or natural gas, or inject fluids for storage of liquid hydrocarbons?		X	
H. Do you or will you inject at this facility fluids for special processes such as mining of sulfur by the Frasch process, solution mining of minerals, in situ combustion of fossil fuel, or recovery of geothermal energy?		X	
I. Is this facility a proposed stationary source which is one of the 28 industrial categories listed in the instructions and which will potentially emit 100 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area?		X	
J. Is this facility a proposed stationary source which is NOT one of the 28 industrial categories listed in the instructions and which will potentially emit 250 tons per year of any air pollutant regulated under the Clean Air Act and may affect or be located in an attainment area?		X	

III. NAME OF FACILITY

1 SKIP: Commonwealth Edison Braidwood Station

IV. FACILITY CONTACT

A. NAME & TITLE (last, first, & title)	B. PHONE (area code & no.)
2 TIDMORE JOSEPH ENV. ANALYST	815 458 2801

V. FACILITY MAILING ADDRESS

A. STREET OR P.O. BOX

3 RURAL ROUTE 1 Box 84

B. CITY OR TOWN	C. STATE	D. ZIP CODE
4 BRACEVILLE	IL	60407

VI. FACILITY LOCATION

A. STREET, ROUTE NO. OR OTHER SPECIFIC IDENTIFIER

6 Rural Route 1, Box 84

B. COUNTY NAME

Will

C. CITY OR TOWN	D. STATE	E. ZIP CODE	F. COUNTY CODE (if known)
8 Braceville	IL	60407	

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

VII. SIC CODES *(4-digit, in order of priority)*

A. FIRST	B. SECOND
4911 (specify) Electrical Generation & Distributio	(specify)
C. THIRD	**D. FOURTH**
(specify)	(specify)

VIII. OPERATOR INFORMATION

A. NAME

Commonwealth Edison Company

B. Is the name listed in Item VIII-A also the owner? ☒ YES ☐ NO

C. STATUS OF OPERATOR *(Enter the appropriate letter into the answer box; if "Other", specify.)*

F = FEDERAL; S = STATE; P = PRIVATE; M = PUBLIC *(other than federal or state)*; O = OTHER *(specify)*

P (specify)

D. PHONE *(area code & no.)*

A 630 663 3094

E. STREET OR P.O. BOX

1400 OPUS PLACE SUITE 500

F. CITY OR TOWN	G. STATE	H. ZIP CODE	IX. INDIAN LAND
DOWNERS GROVE	IL	60515	Is the facility located on Indian lands? ☐ YES ☒ NO

X. EXISTING ENVIRONMENTAL PERMITS

A. NPDES *(Discharges to Surface Water)*	D. PSD *(Air Emissions from Proposed Sources)*
9 N IL0048321	9 P
B. UIC *(Underground Injection of Fluids)*	**E. OTHER** *(specify)*
9 U	9 82110055 (specify) Air-Radwaste Vol. Reduct. System
C. RCRA *(Hazardous Wastes)*	**E. OTHER** *(specify)*
9 R	9 79020011 (specify) Air-Aux. Boilers, Tanks Diesel Generator

XI. MAP

Attach to this application a topographic map of the area extending to at least one mile beyond property boundaries. The map must show the outline of the facility, the location of each of its existing and proposed intake and discharge structures, each of its hazardous waste treatment, storage, or disposal facilities, and each well where it injects fluids underground. Include all springs, rivers and other surface water bodies in the map area. See instructions for precise requirements.

XII. NATURE OF BUSINESS *(provide a brief description)*

Generation and Distribution of Electric Power

XIII. CERTIFICATION *(see instructions)*

I certify under penalty of law that I have personally examined and am familiar with the information submitted in this application and all attachments and that, based on my inquiry of those persons immediately responsible for obtaining the information contained in the application, I believe that the information is true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment.

A. NAME & OFFICIAL TITLE *(type or print)*	B. SIGNATURE	C. DATE SIGNED
GENERATION SUPPORT VICE PRESIDENT		2.29.00

COMMENTS FOR OFFICIAL USE ONLY

Printed on Recycled Paper

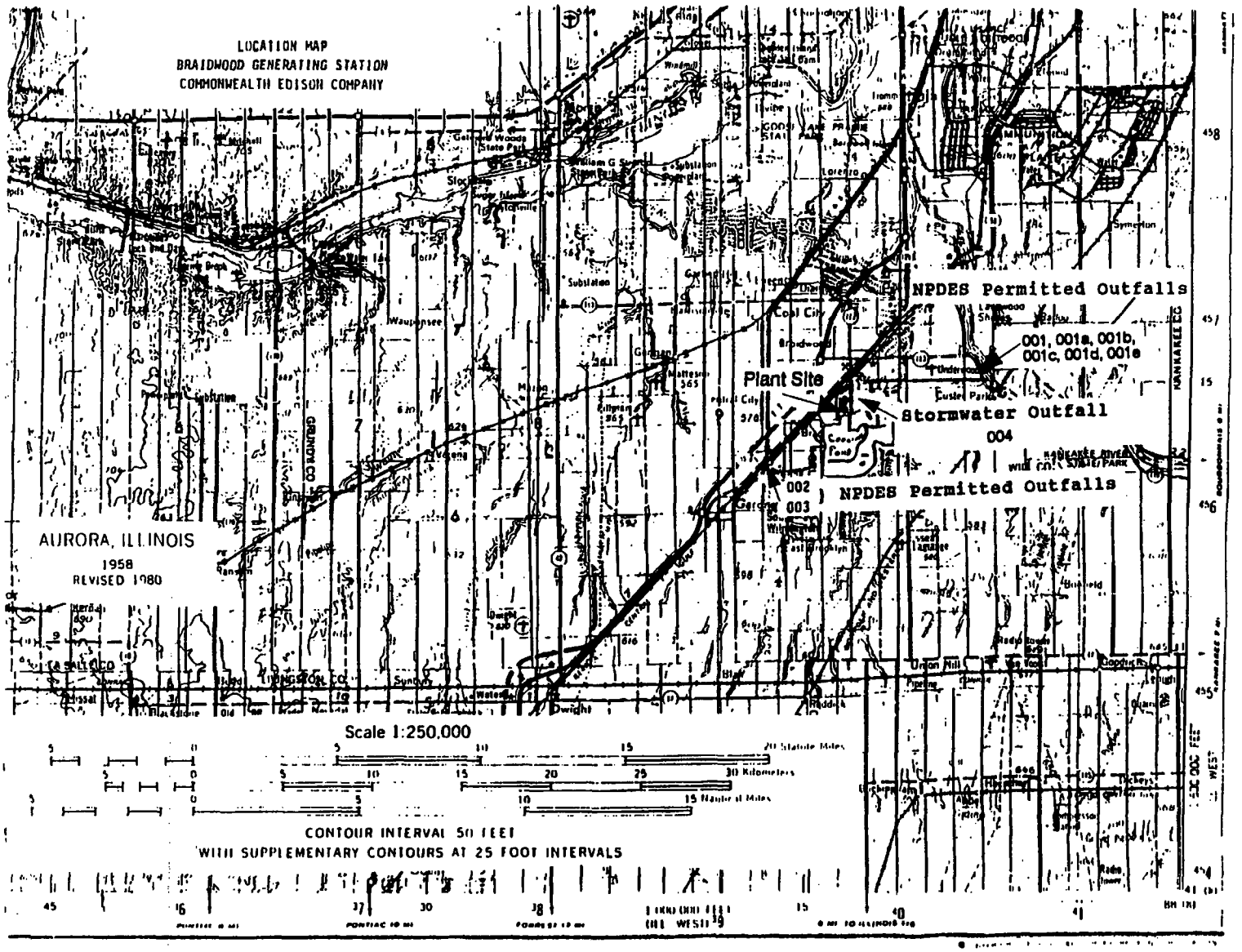
• U.S. Government Printing Office : 1985 ... 185/53491

ILD 000 800 505

Braidwood Station

Form 1, Part X – Other Permits (Cont.)

1996 – SC – 2148 Sewage Sludge Land Application Permit

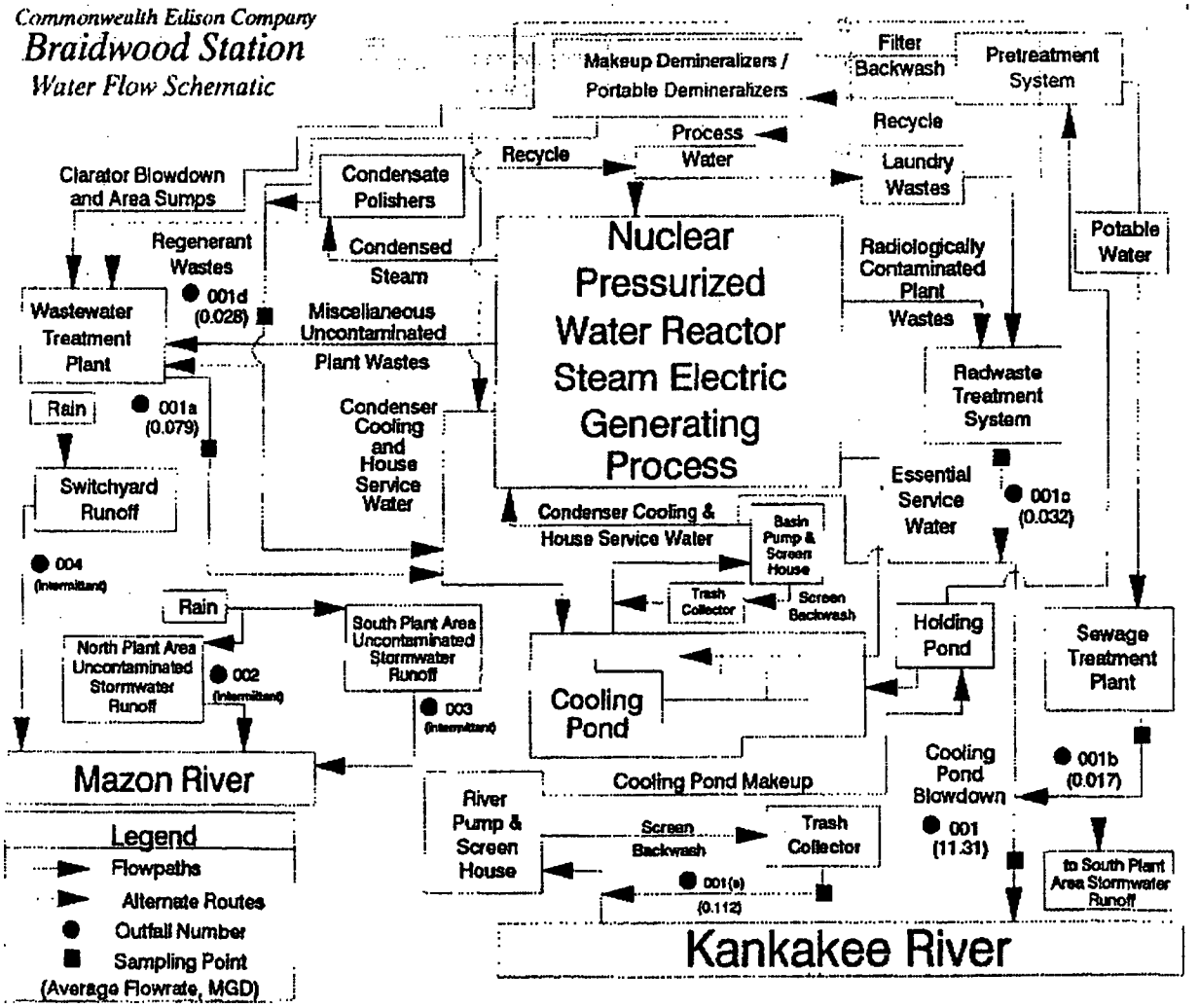

LOCATION MAP
BRAIDWOOD GENERATING STATION
COMMONWEALTH EDISON COMPANY
NPDES Permitted Outfalls
001, 001a, 001b,
001c, 001d, 001e
Plant Site
Stormwater Outfall
004
002
003
NPDES Permitted Outfalls
AURORA, ILLINOIS
1958
REVISED 1980
Scale 1:250,000
CONTOUR INTERVAL 50 FEET
WITH SUPPLEMENTARY CONTOURS AT 25 FOOT INTERVALS

SENT BY: CHEMISTRY; 2-29- 0 13:56; 1815 458 2801 2237 => 6306633655; #6/6

Commonwealth Edison Company

Braidwood Station

Water Flow Schematic



Please print or type in the unshaded areas only.

EPA I.D. NUMBER *(copy from Item 1 of form 1)*
ILD000800505

Form Approved.
OMB No. 2000-0059 Approval
expires 12-31-85

FORM 2C NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

I. OUTFALL LOCATION

For each outfall, list the latitude and longitude to the nearest 15 seconds and the name of the receiving water.

A. OUTFALL NUMBER *(list)*	B. LATITUDE			C. LONGITUDE			D. RECEIVING WATER *(name)*
	1. DEG.	2. MIN.	3. SEC.	1. DEG	2. MIN.	3. SEC.	
001	41	15	00	88	08	00	Kankakee River
001(a)	41	15	00	88	08	00	Kankakee River
001(b)	41	15	00	88	08	00	Kankakee River
001(c)	41	15	00	88	08	00	Kankakee River
001(d)	41	15	00	88	08	00	Kankakee River
001(e)	41	15	00	88	08	00	Kankakee River
002	41	12	15	88	16	45	Mazon River
003	41	12	15	88	16	45	Mazon River
004	41	12	15	88	16	45	Mazon River

II. FLOWS, SOURCES OF POLLUTION, AND TREATMENT TECHNOLOGIES

A. Attach a line drawing showing the water flow through the facility. Indicate sources of intake water, operations contributing wastewater to the effluent, and treatment units labeled to correspond to the more detailed descriptions in Item B. Construct a water balance on the line drawing by showing average flows between intakes, operations, treatment units, and outfalls. If a water balance cannot be determined *(e.g. for certain mining activities)*, provide a pictorial description of the nature and amount of any source of water and any collection or treatment measures.

B. For each outfall, provide a description of: (1) All operations contributing wastewater to the effluent, including process wastewater, sanitary wastewater, cooling water, and storm water runoff; (2) The average flow contributed by each operation; and (3) The treatment received by the wastewater. Continue on additional sheets if necessary.

1. OUTFALL NO *(list)*	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION *(list)*	b. AVERAGE FLOW *(include units)*	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001	Cooling Pond Blowdown		Evaporative Heat Loss;	X-X	
	(Condenser Cooling Water, House Service Water;		Discharge to Surface Water	4-A	
	Essential Service Water; Demineralizer				
	Regenerant Waste; Wastewater Treatment Plant				
	Effluent; House Service Water and Essential				
	Service Water Strainer Backwashes; Sewage				
	Treatment Plant Effluent; Water Pretreatment				
	System Filter Backwash; River Intake Screen				
	Backwash; Cooling Pond Intake Screen				
	Backwash)				
001(a)	Wastewater Treatment Plant Effluent		Oil/Water Separation, Equalization	X-X	X-X
	(Turbine Building Fire and Oil Sump [Turbine		(Turbine Building Fire and Oil Sump		
	Building Floor Drain Tank consisting of turbine		Only); Sedimentation; Equalization	1-U	X-X
	building floor drain sumps, essential service water		(Water Pre-treatment Lime Softening		
	drain sumps, condensate pit sumps; Turbine		Clarator Blowdown only);		
	Building Equipment Drain Tank; Units 1&2 Tendon		Equalization, Coagulation,	X-X	2-D
	Tunnel Sumps; Aux. Boiler Blowdown; Unit 1&2		Flocculation, Floatation,	1-G	1-H
	Diesel Fuel Storage Tanks Sumps; Oil Water		Multimedia Filtration, Microstraining	1-Q	1-N
	Separator No. 1 Effluent; Secondary-Side Drain		Buffering with Circulating Water,	X-X	
	Water] Water Pretreatment Area Floor and		Sludge - air dried, Landfill	X-X	5-Q
	Equipment Drain Sumps; Water Treatment Lime				
	Softening Clarator Blowdown;				

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Please print or type in the unshaded areas only.

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FORM 2C NPDES

EPA

U.S. ENVIRONMENTAL PROTECTION AGENCY
APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

1. OUTFALL NO *(list)*	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION *(list)*	b. AVERAGE FLOW *(include units)*	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
001(a) con't	Wastewater Treatment System Sand Filter				
	Backwash; Condensate Polisher Regenerant				
	Wastes (alternate route); Make-up Demineralizer				
	Regenerant Waste (alternate route))				
001(b)	Sewage Treatment Plant		Grinding, Equalization	1-L	X-X
			Activated Sludge; Sedimentation,	3-A	1-U
			Gravity Filtration, Disinfection;	X-X	2-F
			Sludge to Landfill	5-Q	
001(c)	Radwaste Treatment System Effluent		Ion Exchange; Evaporation;	2-J	1-F
	(Steam Generator Condensate Blowdown;		Reuse/Recycle of Treated Effluent;	4-C	
	Cooling Jacket Blowdown; Auxiliary Building		Microstraining, Oil/Water Separation;	1-H	X-X
	Floor Drains; Laundry Waste Treatment System		Carbon Adsorption;	2-A	
	Drains; Chemical and Volume Control System		Buffering with Circulation Water -	X-X	
	Drains; Boron Recycle System Blowdown;		(the above treatment may be used		
	Radwaste Demineralizer Regenerant Wastes;		singularly or together in combination)		
	Reactor Building Floor and Equipment Drains;				
	Turbine Building Fire and Oil Sump (alternate				
	route); Turbine Building Equipment Drain Tank				
	(alternate route); Turbine Building Floor Drain				
	Tank (alternate route); Evaporator Wastewater)				
001(d)	Demineralizer Regenerant Wastes		Microstraining (Condensate	1-N	
	(Make-up Demineralizer Regenerant Waste;		Polisher Regenerant Waste);		
	Condensate Polisher Waste; Regenerant		Buffering with Circulation Water	X-X	
	Chemical Area Drains; Portable Demineralizer				
	Regenerant Wastes (electrodialysis reversal		Reuse/Recycle (EDR and UF	4-C	
	(EDR), ultrafiltration (UF), and reverse osmosis		wastes)		
	(RO)])				
001(e)	River Intake Screen Backwash		Screening	1-T	
002	North Site Stormwater Runoff Basin	Intermittant	Oil/Water Separation	X-X	
	(Parking Lot Runoff; Transformer Area Runoff;				
	North Station Area Runoff; Turbine Building,				
	Aux Building and Waste Treatment Building				
	Roof Drains)				

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FORM 2C NPDES

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APPLICATION FOR PERMIT TO DISCHARGE WASTEWATER
EXISTING MANUFACTURING, COMMERCIAL, MINING AND SILVICULTURAL OPERATIONS
Consolidated Permits Program

1. OUTFALL NO *(list)*	2. OPERATION(S) CONTRIBUTING FLOW		3. TREATMENT		
	a. OPERATION *(list)*	b. AVERAGE FLOW *(include units)*	a. DESCRIPTION	b. LIST CODES FROM TABLE 2C-1	
003	South Site Stormwater Runoff Basin	Intermittant			
	(South Station Area Runoff; Parking Lot Runoff;				
	Sewage Treatment Plant Effluent (alternate				
	route)				
004	Switchyard Area Runoff	Intermittant	Oil/Water Separation	X-X	

CONTINUED FROM THE FRONT

C. except for storm runoff, leaks, or spills, are any of the discharges described in Items II-A or B intermittent or seasonal?

[X] YES *(complete the following table)* [ ] NO *(go to Section III)*

1. OUTFALL NUMBER *(list)*	2. OPERATION(s) CONTRIBUTING FLOW *(list)*	3. FREQUENCY a. DAYS PER WEEK *(specify average)*	3. FREQUENCY b. MONTHS PER YEAR *(specify average)*	4. FLOW a. FLOW RATE *(in mgd)* 1. LONG TERM AVERAGE	4. FLOW a. FLOW RATE *(in mgd)* 2. MAXIMUM DAILY	4. FLOW b. TOTAL VOLUME *(specify with units)* 1. LONG TERM AVERAGE	4. FLOW b. TOTAL VOLUME *(specify with units)* 2. MAXIMUM DAILY	4. FLOW c. DUR-ATION *(in days)*
001(c)	Rad Waste Treatment System Effluent							
001(d)	Demineralizer Regenerant Wastes							
001(e)	River Intake Screen Backwash							

III. PRODUCTION

A. Does an effluent guideline limitation promulgated by EPA under Section 304 of the Clean Water Act apply to your facility?

[X] YES *(complete Item III-B)* [ ] NO *(go to Section IV)*

B. Are limitations in the applicable effluent guideline expressed in terms of production *(or other measure of operation)*?

[ ] YES *(complete Item III-C)* [X] NO *(go to Section IV)*

C. If you answered "yes" to Item III-B, list the quantity which represents an actual measurement of your level of production, expressed in terms and units used in the applicable effluent guideline, and indicate the affected outfalls.

1. AVERAGE DAILY PRODUCTION a. QUANTITY PER DAY	b. UNITS OF MEASURE	c. OPERATION, PRODUCT, MATERIAL, ETC. *(specify)*	2. AFFECTED OUTFALLS *(list outfall numbers)*
		N/A	

IV. IMPROVEMENTS

A. Are you now required by any Federal, State or Local authority to meet any implementation schedule for the construction, upgrading or operation of wastewater treatment equipment or practices or any other environmental programs which may affect the discharges described in this application? This includes, but is not limited to, permit conditions, administrative or enforcement orders, enforcement compliance schedule letters, stipulations, court orders, and grant or loan conditions.

[ ] YES *(complete the following table)* [X] NO *(go to Item IV-B)*

1. IDENTIFICATION OF CONDITION, AGREEMENT, ETC.	2. AFFECTED OUTFALLS a. NO.	2. AFFECTED OUTFALLS b. SOURCE OF DISCHARGE	3. BRIEF DESCRIPTION OF PROJECT	4. FINAL COMPLIANCE DATE a. RE-QUIRED	4. FINAL COMPLIANCE DATE b. PRO-JECTED

B. OPTIONAL: You may wish to attach additional sheets describing any additional water pollution control programs *(or other environmental projects which may affect your discharges)* you now have underway or which you plan. Indicate whether each program is now underway or planned, and indicate your actual or planned schedules for construction.

[ ] MARK "X" IF DESCRIPTION OF ADDITIONAL CONTROL PROGRAMS IS ATTACHED.

CONTINUED FROM PAGE 2

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V. INTAKE AND EFFLUENT CHARACTERISTICS

A, B,& C: See instructions before proceeding - Complete one set of tables for each outfall - Annotate the outfall number in the space provided. NOTE: Tables V-A, V-B, and V-C are included on separate sheets numbered V-1 through V-9.

D. Use the space below to list any of the pollutants listed in Table 2c-3 of the instructions, which you know or have reason to believe is discharged or may be discharged from any outfall. For every pollutant you list, briefly describe the reasons you believe it to be present and report any analytical data in your possession

1. POLLUTANT	2. SOURCE	1. POLLUTANT	2. SOURCE
	N/A		

VI. POTENTIAL DISCHARGES NOT COVERED BY ANALYSIS

Is any pollutant listed in Item V-C a substance or a component of a substance which you currently use or manufacture as an intermediate or final product or byproduct?

[ ] YES *(list all such pollutants below)* [X] NO *(go to Item VI-B)*

CONTINUED FROM THE FRONT

VII. BIOLOGICAL TOXICITY TESTING DATA

Do you have knowledge or reason to believe that any biological test for acute or chronic toxicity has been made on any of you discharges or on a receiving water in relation to your discharge within the last 3 years?

[ ] YES *(identify the test(s) and describe their purposes below)* [X] NO *(go to Section VIII)*

VIII. CONTRACT ANALYSIS INFORMATION

Were any of the analyses reported in Item V performed by a contract laboratory or consulting firm?

[X] YES *(list the name, address, and telephone number of, and pollutants analyzed by, each such laboratory or firm below)* [ ] NO *(go to Section IX)*

A. NAME	B. ADDRESS	C. TELEPHONE *(area code & no.)*	D. POLLUTANTS ANALYZED *(list)*
Test America	850 W. Bartlett Road Bartlett, IL 60103	(630) 289-3100	All parameters except radioactivity for outfalls 001, 001(a), 001(b) and 001(d)
Quanterra Labs	13715 Rider Trail North Earth City, MO 63045	(800) 333-3305	All analyses for outfall 001(c) and radioactivity for all outfalls

IX. CERTIFICATION

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

A. NAME & OFFICIAL TITLE *(type or print)*	B. PHONE NO. *(area code & no.)*
Generation Support Vice President	630-663-7995
C. SIGNATURE	D. DATE SIGNED
	2·29·00

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS

EPA I.D. NUMBER *(copy from Item1 of Form 1)*: ILD000800505

Form Approved OMB No. 2000-0059 Approval expires 12-31-85

V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)* — OUTFALL NO. 001

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSES	3. UNITS a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE *(optional)* d. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)								mg/L	lbs/day			
b. Chemical Oxygen Demand (COD)								mg/L	lbs/day			
c. Total Organic Carbon (TOC)								mg/L	lbs/day			
d. Total Suspended Solids (TSS)								mg/L	lbs/day			
e. Ammonia								mg/L	lbs/day			
f. Flow	VALUE	19.79	VALUE	16.71	VALUE	11.77	365	MGD		VALUE		
g. Temperature *(winter)*	VALUE	17.8	VALUE	13.3	VALUE	11.3	120	°C		VALUE	3.3	120
h. Temperature *(summer)*	VALUE	33.3	VALUE	31.7	VALUE	29	120	°C		VALUE	22.8	120
i. pH	MINIMUM 7.81	MAXIMUM 8.8	MINIMUM	MAXIMUM			52	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in you discharge. Complete one table for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X" b. BELIEVED PRESENT	2. MARK "X" c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE *(optional)* d. NO. OF ANALYSES
a. Bromide (24959-67-9)	X		5.50	540.21					1	mg/L	lbs/day	< 0.50		1
b. Chlorine, Total Residual	X		0.05	4.91	< 0.04	< 3.44	< 0.03	< 2.95	12	mg/L	lbs/day			
c. Color	X		34						1	Pt-Co		61		1
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		3.34	328.06					1	mg/L	lbs/day	0.22		1
f. Nitrate-Nitrite (as N)	X		< 1.0	< 98.2					1	mg/L	lbs/day	< 1.0		1

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT							4.UNITS		5. INTAKE (optional)		
	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c.LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic *(as N)*	X		1.11	109.02					1	mg/L	lbs/day	0.62		1
h. Oil and Grease	X		< 5	< 491					4	mg/L	lbs/day	5		4
i. Phosphorus *(as P)*, Total (7723-14-0)	X		0.09	8.84					1	mg/L	lbs/day	0.10		1
j. Radioactivity														
(1) Alpha, Total	X		8							pCi/L				
(2) Beta, Total	X		15.1							pCi/L				
(3) Radium, Total	X		< 1.0							pCi/L				
(4) Radium 226, Total	X		< 1.0							pCi/L				
k. Sulfate *(as SO_4)* (14808-79-8)	X		250	24555					1	mg/L	lbs/day	113		1
l. Sulfide *(as S)*	X		< 0.1	< 9.8					1			< 0.10		1
m. Sulfite *(as SO_3)* (14265-45-3)		X												
n. Surfactants	X		< 0.05	< 4.91					1	mg/L	lbs/day	< 0.05		1
o. Aluminum, Total (7429-90-5)	X		0.10	9.82					1	mg/L	lbs/day	0.340		1
p. Barium, Total (7440-39-3)	X		0.038	3.732					1	mg/L	lbs/day	0.042		1
q. Boron, Total (7440-42-8)	X		0.363	35.654					1	mg/L	lbs/day	0.292		1
r. Cobalt, Total (7440-48-4)	X		< 0.10	< 9.82					1	mg/L	lbs/day	< 0.10		1
s. Iron, Total (7439-89-6)	X		0.359	35.261					1	mg/L	lbs/day	0.590		1
t. Magnesium, Total (7439-95-4)	X		82	8054					1	mg/L	lbs/day	28		1
u. Molybdenum, Total (7439-98-7)	X		< 0.10	< 9.82					1	mg/L	lbs/day	< 0.10		1
v. Manganese, Total (7439-96-5)	X		0.016	1.572					1	mg/L	lbs/day	0.054		1
w. Tin, Total (7440-31-5)	X		< 1.0	< 98.2					1	mg/L	lbs/day	< 1.0		1
x. Titanium, Total (7440-32-6)	X		< 0.10	< 9.82					1	mg/L	lbs/day	< 0.10		1

CONTINUE ON PAGE V-3

EPA I.D. NUMBER *(copy from item 1 of Form 1)*	OUTFALL NUMBER
ILD000800505	001

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CONTINUED FROM PAGE 3 OF FORM 2-C

PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a *(secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions)*, mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb of greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are seven pages to this part; please review each carefully. Complete one table (*all 7 pages*) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)	X			< 0.50	< 49.11					1	mg/L	lbs/day	< 0.50		1
2M. Arsenic, Total (7440-38-2)	X			< 0.0050	< 0.4911					1	mg/L	lbs/day	< 0.0050		1
3M. Beryllium, Total (7440-41-7)	X			< 0.0050	< 0.4911					1	mg/L	lbs/day	< 0.0050		1
4M. Cadmium, Total (7440-43-9)	X			< 0.010	< 0.982					1	mg/L	lbs/day	< 0.010		1
5M. Chromium, Total (7440-47-3)	X			< 0.040	< 3.929					1	mg/L	lbs/day	< 0.040		1
6M. Copper, Total (7440-50-8)	X			< 0.004	< 0.393					1	mg/L	lbs/day	0.004		1
7M. Lead, Total (7439-92-1)	X			< 0.200	< 19.644					1	mg/L	lbs/day	< 0.200		1
8M. Mercury, Total (7439-97-6)	X			< 0.0002	< 0.0196					1	mg/L	lbs/day	< 2E-04		1
9M. Nickel, Total (7440-02-0)	X			< 0.050	< 4.911					1	mg/L	lbs/day	< 0.050		1
10M. Selenium, Total (7782-49-2)	X			< 0.0050	< 0.4911					1	mg/L	lbs/day	< 0.0050		1
11M. Silver, Total (7440-22-4)	X			< 0.040	< 3.929					1	mg/L	lbs/day	< 0.040		1
12M. Thallium, Total (7440-28-0)	X			< 0.20	< 19.64					1	mg/L	lbs/day	< 0.20		1
13M. Zinc, Total (7440-66-6)	X			< 0.020	< 1.964					1	mg/L	lbs/day	< 0.020		1
14M. Cyanide, Total (57-12-5)	X			< 0.005	< 0.491					4	mg/L	lbs/day	< 0.005		4
15M. Phenols, Total	X			< 0.020	< 1.964					4	mg/L	lbs/day	< 0.020		4
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichlorobromomethane (75-27-4)			X												
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl bromide (74-83-9)			X												
21V. Methyl chloride (74-87-3)			X												

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EPA I.D. NUMBER *(copy from item 1 of Form 1)*	OUTFALL NUMBER
ILD000800505	001

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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4.UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c.LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS *(continued)*															
22V. Methylene chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloroethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V. Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoromethane (75-69-4)			X												
31V. Vinyl chloride (75-01-4)			X												
GC/MS FRACTION - ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichlorophenol (120-83-2)			X												
3A. 2,4-Dimethylphenol (105-67-9)			X												
4A. 4,6-Dinitro-O-cresol (534-52-1)			X												
5A. 2,4-Dinitrophenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-cresol (59-50-7)			X												
9A. Pentachlorophenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichlorophenol (88-06-2)			X												

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4.UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphthylene (208-96-8)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (a) anthracene (56-55-3)			X												
6B. Benzo (a) pyrene (50-32-8)			X												
7B. 3,4-Benzofluoranthene (205-99-2)			X												
8B. Benzo (ghi) perylene (191-24-2)			X												
9B. Benzo (k) fluoranthene (207-08-9)			X												
10B. Bis (2chloroethoxy) methane (111-91-1)			X												
11B. Bis (2-chloroethyl) ether (111-44-4)			X												
12B. Bis (2-chloroisopropyl) ether (102-60-1)			X												
13B. Bis (2-ethylhexyl) phthalate (117-81-7)			X												
14B. 4-Bromophenyl phenyl ether (101-55-3)			X												
15B. Butyl benzyl phthalate (85-68-7)			X												
16B. 2-Chloronaphthalene (91-58-7)			X												
17B. 4-Chlorophenyl phenyl ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (a,h) anthracene (53-70-3)			X												
20B. 1,2-Dichlorobenzene (95-50-1)			X												
21B. 1,3-Dichlorobenzene (541-73-1)			X												

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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X												
23B. 3,3'-Dichlorobenzadine (91-94-1)			X												
24B. Diethyl phthalate (84-66-2)			X												
25B. Dimethyl phthalate (131-11-3)			X												
26B. Di-N-butyl phthalate (84-74-2)			X												
27B. 2,4-Dinitrotoluene (121-14-2)			X												
28B. 2,6-Dinitrotoluene (606-20-2)			X												
29B. Di-N-octyl phthalate (117-84-0)			X												
30B. 1,2-Diphenylhydrazine (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachlorobenzene (118-74-1)			X												
34B. Hexachlorobutadiene (87-68-3)			X												
35B. Hexachlorocyclopentadiene (77-47-4)			X												
36B. Hexachloroethane (67-72-1)			X												
37B. Indeno (1,2,3-cd) pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitrosodimethylamine (62-75-9)			X												
42B. N-Nitrosodi-N-propylamine (621-64-7)			X												

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TEST-ING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Trichlorobenzene (120-82-1)			X												
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. -BHC (319-84-6)			X												
3P. -BHC (319-85-7)			X												
4P. -BHC (58-89-9)			X												
5P. -BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. -Endosulfan (115-29-7)			X												
12P. -Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4.UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c.LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS

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V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)* — OUTFALL NO. 001(a)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	3. UNITS a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) d. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)								mg/L	lbs/day			
b. Chemical Oxygen Demand (COD)								mg/L	lbs/day			
c. Total Organic Carbon (TOC)								mg/L	lbs/day			
d. Total Suspended Solids (TSS)	11.6	6.00	5.8	2.98	< 3.0	< 1.58	52	mg/L	lbs/day			
e. Ammonia								mg/L	lbs/day			
f. Flow	VALUE	0.110	VALUE	0.075	VALUE	0.062	365	MGD		VALUE		
g. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in you discharge. Complete one table for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) d. NO. OF ANALYSES
a. Bromide (24959-67-9)		X								mg/L	lbs/day			
b. Chlorine, Total Residual		X								mg/L	lbs/day			
c. Color	X		111						1	Pt-Co				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		0.13	0.07					1	mg/L	lbs/day			
f. Nitrate-Nitrite *(as N)*	X		< 1.0	< 0.5					1	mg/L	lbs/day			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X		1.10	0.57					1	mg/L	lbs/day			
h. Oil and Grease	X		5	2.3	5	2.3	< 2	< 1.3	12	mg/L	lbs/day			
i. Phosphorus (as P), Total (7723-14-0)	X		0.05	0.03					1	mg/L	lbs/day			
j. Radioactivity														
(1) Alpha, Total	X		1						1	pCi/L				
(2) Beta, Total	X		3.5						1	pCi/L				
(3) Radium, Total	X		< 1.0						1	pCi/L				
(4) Radium 226, Total	X		< 1.0						1	pCi/L				
k. Sulfate (as SO_4) (14808-79-8)	X		87	45					1	mg/L	lbs/day			
l. Sulfide (as S)	X		< 2.0	< 1.0					1					
m. Sulfite (as SO_3) (14265-45-3)		X												
n. Surfactants	X		0.19	0.10					1	mg/L	lbs/day			
o. Aluminum, Total (7429-90-5)	X		< 0.10	< 0.05					1	mg/L	lbs/day			
p. Barium, Total (7440-39-3)	X		< 0.020	< 0.010					1	mg/L	lbs/day			
q. Boron, Total (7440-42-8)	X		0.172	0.089					1	mg/L	lbs/day			
r. Cobalt, Total (7440-48-4)	X		< 0.10	< 0.05					1	mg/L	lbs/day			
s. Iron, Total (7439-89-6)	X		0.102	0.053					1	mg/L	lbs/day			
t. Magnesium, Total (7439-95-4)	X		18	9.3					1	mg/L	lbs/day			
u. Molybdenum, Total (7439-98-7)	X		< 0.10	< 0.05					1	mg/L	lbs/day			
v. Manganese, Total (7439-96-5)	X		0.011	0.006					1	mg/L	lbs/day			
w. Tin, Total (7440-31-5)	X		< 1.0	< 0.5					1	mg/L	lbs/day			
x. Titanium, Total (7440-32-6)	X		< 0.10	< 0.05					1	mg/L	lbs/day			

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PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb of greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are seven pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)		X		< 0.50	< 0.26					1	mg/L	lbs/day			
2M. Arsenic, Total (7440-38-2)		X		< 0.0050	< 0.0026					1	mg/L	lbs/day			
3M. Beryllium, Total (7440-41-7)		X		< 0.0050	< 0.0026					1	mg/L	lbs/day			
4M. Cadmium, Total (7440-43-9)		X		< 0.010	< 0.005					1	mg/L	lbs/day			
5M. Chromium, Total (7440-47-3)		X		< 0.040	< 0.021					1	mg/L	lbs/day			
6M. Copper, Total (7440-50-8)		X		0.006	0.003					1	mg/L	lbs/day			
7M. Lead, Total (7439-92-1)		X		< 0.200	< 0.103					1	mg/L	lbs/day			
8M. Mercury, Total (7439-97-6)		X		< 0.0002	< 0.0001					1	mg/L	lbs/day			
9M Nickel, Total (7440-02-0)		X		< 0.050	< 0.026					1	mg/L	lbs/day			
10M. Selenium, Total (7782-49-2)		X		< 0.0050	< 0.0026					1	mg/L	lbs/day			
11M. Silver, Total (7440-22-4)		X		< 0.040	< 0.021					1	mg/L	lbs/day			
12M. Thallium, Total (7440-28-0)		X		< 0.20	< 0.10					1	mg/L	lbs/day			
13M. Zinc, Total (7440-66-6)		X		< 0.020	< 0.010					1	mg/L	lbs/day			
14M. Cyanide, Total (57-12-5)		X		< 0.005	< 0.003					4	mg/L	lbs/day			
15M. Phenols, Total		X		< 0.020	< 0.010					4	mg/L	lbs/day			
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4.UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichlorobromomethane (75-27-4)			X												
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl bromide (74-83-9)			X												
21V. Methyl chloride (74-87-3)			X												

EPA I.D. NUMBER *(copy from Item 1 of Form 1)*	OUTFALL NUMBER
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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS *(continued)*															
22V. Methylene chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloroethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V. Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoromethane (75-69-4)			X												
31V. Vinyl chloride (75-01-4)			X												
GC/MS FRACTION - ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichlorophenol (120-83-2)			X												
3A. 2,4-Dimethylphenol (105-67-9)			X												
4A. 4,6-Dinitro-O-cresol (534-52-1)			X												
5A. 2,4-Dinitrophenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-cresol (59-50-7)			X												
9A. Pentachlorophenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichlorophenol (88-06-2)			X												

CONTINUE ON REVERSE

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphthylene (208-96-8)			X												
3B. Anthracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (a) anthracene (56-55-3)			X												
6B. Benzo (a) pyrene (50-32-8)			X												
7B. 3,4-Benzofluoranthene (205-99-2)			X												
8B. Benzo (ghi) perylene (191-24-2)			X												
9B. Benzo (k) fluoranthene (207-08-9)			X												
10B. Bis (2chloroethox-y) methane (111-91-1)			X												
11B. Bis (2-chloroethyl) ether (111-44-4)			X												
12B. Bis (2-chloroiso-propyl) ether (102-80-1)			X												
13B. Bis (2-ethylhexyl) phthalate (117-81-7)			X												
14B. 4-Bromophenyl phenyl ether (101-55-3)			X												
15B. Butyl benzyl phthalate (85-68-7)			X												
16B. 2-Chloronaphthalene (91-58-7)			X												
17B 4-Chlorophenyl phenyl ether (7005-72-3)			X												
18B Chrysene (218-01-9)			X												
19B. Dibenzo (a,h) anthracene (53-70-3)			X												
20B. 1,2-Dichlorobenzene (95-50-1)			X												
21B. 1,3-Dichlorobenzene (541-73-1)			X												

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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X												
23B. 3,3'-Dichlorobenzidine (91-94-1)			X												
24B. Diethyl phthalate (84-66-2)			X												
25B. Dimethyl phthalate (131-11-3)			X												
26B. Di-N-butyl phthalate (84-74-2)			X												
27B. 2,4-Dinitrotoluene (121-14-2)			X												
28B. 2,6-Dinitrotoluene (606-20-2)			X												
29B. Di-N-octyl phthalate (117-84-0)			X												
30B. 1,2-Diphenylhydrazine (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachlorobenzene (118-74-1)			X												
34B. Hexachlorobutadiene (87-68-3)			X												
35B. Hexachlorocyclopentadiene (77-47-4)			X												
36B. Hexachloroethane (67-72-1)			X												
37B. Indeno (1,2,3-cd) pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitrosodimethylamine (62-75-9)			X												
42B. N-Nitrosodi-N-propylamine (621-64-7)			X												

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Trichlorobenzene (120-82-1)			X												
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. -BHC (319-84-6)			X												
3P. -BHC (319-85-7)			X												
4P. -BHC (58-89-9)			X												
5P. -BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. -Endosulfan (115-29-7)			X												
12P. -Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

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V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)* — OUTFALL NO. 001(b)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	3. UNITS a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) d. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)	65.0	10.8	35.2	5.9	< 10.1	< 1.7	52	mg/L	lbs/day			
b. Chemical Oxygen Demand (COD)								mg/L	lbs/day			
c. Total Organic Carbon (TOC)								mg/L	lbs/day			
d. Total Suspended Solids (TSS)	19.3	3.2	11.9	2.0	6.6	1.1	52	mg/L	lbs/day			
e. Ammonia								mg/L	lbs/day			
f. Flow	VALUE	0.045	VALUE	0.029	VALUE	0.020	260	MGD		VALUE		
g. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM 6.15	MAXIMUM 8.15	MINIMUM	MAXIMUM			52	STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in you discharge. Complete one table for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X" b. BELIEVED PRESENT	2. MARK "X" c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) d. NO. OF ANALYSES
a. Bromide (24959-67-9)		X								mg/L	lbs/day			
b. Chlorine, Total Residual		X								mg/L	lbs/day			
c. Color	X		68						1	Pt-Co				
d. Fecal Coliform	X													
e. Fluoride (16984-48-8)	X		0.13	0.02					1	mg/L	lbs/day			
f. Nitrate-Nitrite *(as N)*	X		64.0	10.7					1	mg/L	lbs/day			

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X		0.50	0.08					1	mg/L	lbs/day			
h. Oil and Grease	X		< 5	< 0.8					4	mg/L	lbs/day			
i. Phosphorus (as P), Total (7723-14-0)	X		4.9	0.8					1	mg/L	lbs/day			
j. Radioactivity														
(1) Alpha, Total	X		2						1	pCi/L				
(2) Beta, Total	X		26.2						1	pCi/L				
(3) Radium, Total	X		< 1.0						1	pCi/L				
(4) Radium 226, Total	X		< 1.0						1	pCi/L				
k. Sulfate (as SO_4) (14808-79-8)	X		27	4					1	mg/L	lbs/day			
l. Sulfide (as S)	X		< 1.0	< 0.2					1					
m. Sulfite (as SO_3) (14265-45-3)		X												
n. Surfactants	X		0.09	0.02					1	mg/L	lbs/day			
o. Aluminum, Total (7429-90-5)	X		< 0.10	< 0.02					1	mg/L	lbs/day			
p. Barium, Total (7440-39-3)	X		< 0.020	< 0.003					1	mg/L	lbs/day			
q. Boron, Total (7440-42-8)	X		0.153	0.026					1	mg/L	lbs/day			
r. Cobalt, Total (7440-48-4)	X		< 0.10	< 0.02					1	mg/L	lbs/day			
s. Iron, Total (7439-89-6)	X		0.101	0.017					1	mg/L	lbs/day			
t. Magnesium, Total (7439-95-4)	X		19	3.2					1	mg/L	lbs/day			
u. Molybdenum, Total (7439-98-7)	X		< 0.10	< 0.02					1	mg/L	lbs/day			
v. Manganese, Total (7439-96-5)	X		< 0.010	< 0.002					1	mg/L	lbs/day			
w. Tin, Total (7440-31-5)	X		< 1.0	< 0.2					1	mg/L	lbs/day			
x. Titanium, Total (7440-32-6)	X		< 0.10	< 0.02					1	mg/L	lbs/day			

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PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb of greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are seven pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4.UNITS		5. INTAKE *(optional)*		
	a. TEST-ING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)		X		< 0.50	< 0.08					1	mg/L	lbs/day			
2M. Arsenic, Total (7440-38-2)		X		< 0.0050	< 0.0008					1	mg/L	lbs/day			
3M. Beryllium, Total (7440-41-7)		X		< 0.0050	< 0.0008					1	mg/L	lbs/day			
4M. Cadmium, Total (7440-43-9)		X		< 0.010	< 0.002					1	mg/L	lbs/day			
5M. Chromium, Total (7440-47-3)		X		< 0.040	< 0.007					1	mg/L	lbs/day			
6M. Copper, Total (7440-50-8)		X		0.014	0.002					1	mg/L	lbs/day			
7M. Lead, Total (7439-92-1)		X		< 0.200	< 0.033					1	mg/L	lbs/day			
8M. Mercury, Total (7439-97-6)		X		< 0.0002	< 0.0000					1	mg/L	lbs/day			
9M. Nickel, Total (7440-02-0)		X		< 0.050	< 0.008					1	mg/L	lbs/day			
10M. Selenium, Total (7782-49-2)		X		< 0.0050	< 0.0008					1	mg/L	lbs/day			
11M. Silver, Total (7440-22-4)		X		< 0.040	< 0.007					1	mg/L	lbs/day			
12M. Thallium, Total (7440-28-0)		X		< 0.20	< 0.03					1	mg/L	lbs/day			
13M. Zinc, Total (7440-66-6)		X		0.114	0.019					1	mg/L	lbs/day			
14M. Cyanide, Total (57-12-5)		X		< 0.005	< 0.001					4	mg/L	lbs/day			
15M. Phenols, Total		X		< 0.020	< 0.003					4	mg/L	lbs/day			
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichlorobromomethane (75-27-4)			X												
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl bromide (74-83-9)			X												
21V. Methyl chloride (74-87-3)			X												

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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS *(continued)*															
22V. Methylene chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloroethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V. Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoromethane (75-69-4)			X												
31V. Vinyl chloride (75-01-4)			X												
GC/MS FRACTION - ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichlorophenol (120-83-2)			X												
3A. 2,4-Dimethylphenol (105-67-9)			X												
4A. 4,6-Dinitro-O-cresol (534-52-1)			X												
5A. 2,4-Dinitrophenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-cresol (59-50-7)			X												
9A. Pentachlorophenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichlorophenol (88-06-2)			X												

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4.UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphthylene (208-96-8)			X												
3B Anthracene (120-12-7)			X												
4B Benzidine (92-87-5)			X												
5B. Benzo (a) anthracene (56-55-3)			X												
6B. Benzo (a) pyrene (50-32-8)			X												
7B. 3,4-Benzofluoranthene (205-99-2)			X												
8B. Benzo (ghi) perylene (191-24-2)			X												
9B. Benzo (k) fluoranthene (207-08-9)			X												
10B Bis (2chloroethoxy) methane (111-91-1)			X												
11B Bis (2-chloroethyl) ether (111-44-4)			X												
12B Bis (2-chloroisopropyl) ether (102-60-1)			X												
13B. Bis (2-ethylhexyl) phthalate (117-81-7)			X												
14B. 4-Bromophenyl phenyl ether (101-55-3)			X												
15B. Butyl benzyl phthalate (85-68-7)			X												
16B. 2-Chloronaphthalene (91-58-7)			X												
17B. 4-Chlorophenyl phenyl ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (a,h) anthracene (53-70-3)			X												
20B. 1,2-Dichlorobenzene (95-50-1)			X												
21B. 1,3-Dichlorobenzene (541-73-1)			X												

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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT						d. NO. OF ANALYSES	4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X												
23B. 3,3'-Dichlorobenzidine (91-94-1)			X												
24B. Diethyl phthalate (84-66-2)			X												
25B. Dimethyl phthalate (131-11-3)			X												
26B. Di-N-butyl phthalate (84-74-2)			X												
27B. 2,4-Dinitrotoluene (121-14-2)			X												
28B. 2,6-Dinitrotoluene (606-20-2)			X												
29B. Di-N-octyl phthalate (117-84-0)			X												
30B. 1,2-Diphenylhydrazine (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachlorobenzene (118-74-1)			X												
34B. Hexachlorobutadiene (87-68-3)			X												
35B. Hexachlorocyclopentadiene (77-47-4)			X												
36B. Hexachloroethane (67-72-1)			X												
37B. Indeno (1,2,3-cd) pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitrosodimethylamine (62-75-9)			X												
42B. N-Nitrosodi-N-propylamine (621-64-7)			X												

CONTINUE ON REVERSE

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Trichlorobenzene (120-82-1)			X												
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. -BHC (319-84-6)			X												
3P. -BHC (319-85-7)			X												
4P. -BHC (58-89-9)			X												
5P. -BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. -Endosulfan (115-29-7)			X												
12P. -Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages. SEE INSTRUCTIONS

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V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)* — OUTFALL NO. 001(c)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	3. UNITS a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	4. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	4. INTAKE (optional) d. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)								mg/L	lbs/day			
b. Chemical Oxygen Demand (COD)								mg/L	lbs/day			
c. Total Organic Carbon (TOC)								mg/L	lbs/day			
d. Total Suspended Solids (TSS)	14.0	2.69	4.3	0.82	< 2.2	< 0.42	52	mg/L	lbs/day			
e. Ammonia								mg/L	lbs/day			
f. Flow	VALUE	0.047	VALUE	0.025	VALUE	0.023	167	MGD		VALUE		
g. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in you discharge. Complete one table for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE (if available) (2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	c. LONG TERM AVRG. VALUE (if available) (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE (optional) d. NO. OF ANALYSES
a. Bromide (24959-67-9)		X	< 0.25	< 0.0						mg/L	lbs/day			
b. Chlorine, Total Residual		X								mg/L	lbs/day			
c. Color	X								1	Pt-Co				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		0.65	0.13					1	mg/L	lbs/day			
f. Nitrate-Nitrite *(as N)*	X		< 0.1	< 0.0					1	mg/L	lbs/day			

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X								1	mg/L	lbs/day			
h. Oil and Grease	X		5	1.0	5	1.0	< 2	< 0.4	12	mg/L	lbs/day			
i. Phosphorus (as P), Total (7723-14-0)	X		0.059	0.0					1	mg/L	lbs/day			
j. Radioactivity														
(1) Alpha, Total	X		35.7						1	pCi/L				
(2) Beta, Total	X		3350.0						1	pCi/L				
(3) Radium, Total	X		< 1.0						1	pCi/L				
(4) Radium 226, Total	X		< 1.0						1	pCi/L				
k. Sulfate (as SO_4) (14808-79-8)	X		< 2.5	< 0					1	mg/L	lbs/day			
l. Sulfide (as S)	X		< 1.0	< 0.2					1					
m. Sulfite (as SO_3) (14266-46-3)		X												
n. Surfactants	X								1	mg/L	lbs/day			
o. Aluminum, Total (7429-90-5)	X		< 0.20	< 0.04					1	mg/L	lbs/day			
p. Barium, Total (7440-39-3)	X		< 0.20	< 0.038					1	mg/L	lbs/day			
q. Boron, Total (7440-42-8)	X		< 0.20	< 0.038					1	mg/L	lbs/day			
r. Cobalt, Total (7440-48-4)	X		< 0.05	< 0.01					1	mg/L	lbs/day			
s. Iron, Total (7439-89-6)	X		< 0.10	< 0.019					1	mg/L	lbs/day			
t. Magnesium, Total (7439-95-4)	X		< 5	< 1.0					1	mg/L	lbs/day			
u. Molybdenum, Total (7439-98-7)	X		< 0.04	< 0.01					1	mg/L	lbs/day			
v. Manganese, Total (7439-96-5)	X		< 0.015	< 0.003					1	mg/L	lbs/day			
w. Tin, Total (7440-31-5)	X		< 0.1	< 0.0					1	mg/L	lbs/day			
x. Titanium, Total (7440-32-6)	X		< 0.05	< 0.01					1	mg/L	lbs/day			

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PART C - if you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb of greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are seven pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT						d. NO. OF ANALYSES	4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*			a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)		X		< 0.06	< 0.01					1	mg/L	lbs/day			
2M. Arsenic, Total (7440-38-2)		X		< 0.010	< 0.0019					1	mg/L	lbs/day			
3M. Beryllium, Total (7440-41-7)		X		< 0.005	< 0.0010					1	mg/L	lbs/day			
4M. Cadmium, Total (7440-43-9)		X		< 0.005	< 0.001					1	mg/L	lbs/day			
5M. Chromium, Total (7440-47-3)		X		< 0.010	< 0.002					1	mg/L	lbs/day			
6M. Copper, Total (7440-50-8)		X		< 0.025	< 0.005					1	mg/L	lbs/day			
7M. Lead, Total (7439-92-1)		X		< 0.003	< 0.001					1	mg/L	lbs/day			
8M. Mercury, Total (7439-97-6)		X		< 0.0002	< 0.0000					1	mg/L	lbs/day			
9M. Nickel, Total (7440-02-0)		X		< 0.040	< 0.008					1	mg/L	lbs/day			
10M. Selenium, Total (7782-49-2)		X		< 0.005	< 0.0010					1	mg/L	lbs/day			
11M. Silver, Total (7440-22-4)		X		< 0.010	< 0.002					1	mg/L	lbs/day			
12M. Thallium, Total (7440-28-0)		X		< 0.01	< 0.00					1	mg/L	lbs/day			
13M. Zinc, Total (7440-66-6)		X		< 0.020	< 0.004					1	mg/L	lbs/day			
14M. Cyanide, Total (57-12-5)		X		< 0.005	< 0.001					4	mg/L	lbs/day			
15M. Phenols, Total		X		< 0.050	< 0.010					4	mg/L	lbs/day			
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V Dichlorobromomethane (75-27-4)			X												
13V Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V Methyl bromide (74-83-9)			X												
21V. Methyl chloride (74-87-3)			X												

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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X' a. TEST-ING REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE *(optional)* d. NO. OF ANALYSES
GC/MS FRACTION - VOLATILE COMPOUNDS *(continued)*															
22V. Methylene chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloroethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V. Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoromethane (75-69-4)			X												
31V. Vinyl chloride (75-01-4)			X												
GC/MS FRACTION - ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichlorophenol (120-83-2)			X												
3A. 2,4-Dimethylphenol (105-67-9)			X												
4A. 4,6-Dinitro-O-cresol (534-52-1)			X												
5A. 2,4-Dinitrophenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-cresol (59-50-7)			X												
9A. Pentachlorophenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichlorophenol (88-06-2)			X												

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X' a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	(2) MASS	b. MAXIMUM 30 DAY VALUE (if available) (1) CONCENTRATION	(2) MASS	c. LONG TERM AVRG. VALUE (if available) (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	b. MASS	5. INTAKE (optional) a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	(2) MASS	d. NO. OF ANALYSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphthylene (208-96-8)			X												
3B. Antracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (a) anthracene (56-55-3)			X												
6B. Benzo (a) pyrene (50-32-8)			X												
7B. 3,4-Benzofluoranthene (205-99-2)			X												
8B. Benzo (ghi) perylene (191-24-2)			X												
9B. Benzo (k) fluoranthene (207-08-9)			X												
10B. Bis (2chloroethox-y) methane (111-91-1)			X												
11B. Bis (2-chloroethyl) ether (111-44-4)			X												
12B. Bis (2-chloroiso-propyl) ether (102-60-1)			X												
13B. Bis (2-ethylhexyl) phthalate (117-81-7)			X												
14B. 4-Bromophenyl phenyl ether (101-55-3)			X												
15B. Butyl benzyl phthalate (85-68-7)			X												
16B. 2-Chloronaphthalene (91-58-7)			X												
17B. 4-Chlorophenyl phenyl ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (a,h) anthracene (53-70-3)			X												
20B. 1,2-Dichlorobenzene (95-50-1)			X												
21B. 1,3-Dichlorobenzene (541-73-1)			X												

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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X' a. TESTING REQUIRED	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	3. EFFLUENT a. MAXIMUM DAILY VALUE (2) MASS	3. EFFLUENT b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	3. EFFLUENT b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	3. EFFLUENT c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	3. EFFLUENT c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	3. EFFLUENT d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (2) MASS	5. INTAKE *(optional)* d. NO. OF ANALYSES
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X												
23B. 3,3'-Dichlorobenzedine (91-94-1)			X												
24B. Diethyl phthalate (84-66-2)			X												
25B. Dimethyl phthalate (131-11-3)			X												
26B. Di-N-butyl phthalate (84-74-2)			X												
27B. 2,4-Dinitrotoluene (121-14-2)			X												
28B. 2,6-Dinitrotoluene (606-20-2)			X												
29B. Di-N-octyl phthalate (117-84-0)			X												
30B. 1,2-Diphenyl-hydrazine (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachlorobenzene (118-74-1)			X												
34B. Hexachlorobutadiene (87-68-3)			X												
35B. Hexachlorocyclo-pentadiene (77-47-4)			X												
36B. Hexachloroethane (67-72-1)			X												
37B. Indeno (1,2,3-cd) pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitrosodimethyl-amine (62-75-9)			X												
42B. N-Nitrosodi-N-propylamine (621-64-7)			X												

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS *(continued)*															
43B. N-Nitrosodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Trichlorobenzene (120-82-1)			X												
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. α-BHC (319-84-6)			X												
3P. β-BHC (319-85-7)			X												
4P. γ-BHC (58-89-9)			X												
5P. δ-BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. α-Endosulfan (115-29-7)			X												
12P. β-Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4.UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

PLEASE PRINT OR TYPE IN THE UNSHADED AREAS ONLY. You may report some or all of this information on separate sheets *(use the same format)* instead of completing these pages.
SEE INSTRUCTIONS

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V. INTAKE AND EFFLUENT CHARACTERISTICS *(continued from page 3 of Form 2-C)*

OUTFALL NO. 001(d)

PART A - You must provide the results of at least one analysis for every pollutant in this table. Complete one table for each outfall. See instructions for additional details.

1. POLLUTANT	2. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSES	3. UNITS a. CONCENTRATION	3. UNITS b. MASS	4. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	d. NO. OF ANALYSES
a. Biochemical Oxygen Demand (BOD)								mg/L	lbs/day			
b. Chemical Oxygen Demand (COD)								mg/L	lbs/day			
c. Total Organic Carbon (TOC)								mg/L	lbs/day			
d. Total Suspended Solids (TSS)	2.2	0.42	< 1.1	< 0.21	< 0.8	< 0.15	52	mg/L	lbs/day			
e. Ammonia								mg/L	lbs/day			
f. Flow	VALUE	0.105	VALUE	0.030	VALUE	0.023	365	MGD		VALUE		
g. Temperature *(winter)*	VALUE		VALUE		VALUE			°C		VALUE		
h. Temperature *(summer)*	VALUE		VALUE		VALUE			°C		VALUE		
i. pH	MINIMUM	MAXIMUM	MINIMUM	MAXIMUM				STANDARD UNITS				

PART B - Mark "X" in column 2-a for each pollutant you know or have reason to believe is present. Mark "X" in column 2-b for each pollutant you believe to be absent. If you mark column 2a for any pollutant which is limited either directly, or indirectly but expressly, in an effluent limitations guideline, you must provide the results of at least one analysis for that pollutant. For other pollutants for which you mark column 2a, you must provide quantitative data or an explanation of their presence in you discharge. Complete one table for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X' b. BELIEVED PRESENT	2. MARK 'X' c. BELIEVED ABSENT	3. EFFLUENT a. MAXIMUM DAILY VALUE (1) CONCENTRATION	a. MAXIMUM DAILY VALUE (2) MASS	b. MAXIMUM 30 DAY VALUE *(if available)* (1) CONCENTRATION	b. MAXIMUM 30 DAY VALUE *(if available)* (2) MASS	c. LONG TERM AVRG. VALUE *(if available)* (1) CONCENTRATION	c. LONG TERM AVRG. VALUE *(if available)* (2) MASS	d. NO. OF ANALYSES	4. UNITS a. CONCENTRATION	4. UNITS b. MASS	5. INTAKE *(optional)* a. LONG TERM AVERAGE VALUE (1) CONCENTRATION	a. LONG TERM AVERAGE VALUE (2) MASS	d. NO. OF ANALYSES
a. Bromide (24959-67-9)		X							1	mg/L	lbs/day			
b. Chlorine, Total Residual		X								mg/L	lbs/day			
c. Color	X		6						1	Pt-Co				
d. Fecal Coliform		X												
e. Fluoride (16984-48-8)	X		0.15	0.03					1	mg/L	lbs/day			
f. Nitrate-Nitrite *(as N)*	X		1.3	0.2					1	mg/L	lbs/day			

ITEM V-B CONTINUED FROM FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'		3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
			(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
g. Nitrogen, Total Organic (as N)	X		< 0.50	< 0.10					1	mg/L	lbs/day			
h. Oil and Grease	X		6	1.2					4	mg/L	lbs/day			
i. Phosphorus (as P), Total (7723-14-0)	X		0.3	0.1					1	mg/L	lbs/day			
j. Radioactivity														
(1) Alpha, Total	X		1						1	pCi/L				
(2) Beta, Total	X		8.2						1	pCi/L				
(3) Radium, Total	X		< 1.0						1	pCi/L				
(4) Radium 226, Total	X		< 1.0						1	pCi/L				
k. Sulfate (as SO_4) (14808-79-8)	X		664	127					1	mg/L	lbs/day			
l. Sulfide (as S)	X		< 2.0	< 0.4					1					
m. Sulfite (as SO_3) (14265-45-3)		X												
n. Surfactants	X		< 0.05	< 0.01					1	mg/L	lbs/day			
o. Aluminum, Total (7429-90-5)	X		< 0.10	< 0.02					1	mg/L	lbs/day			
p. Barium, Total (7440-39-3)	X		0.196	0.038					1	mg/L	lbs/day			
q. Boron, Total (7440-42-8)	X		0.196	0.038					1	mg/L	lbs/day			
r. Cobalt, Total (7440-48-4)	X		< 0.10	< 0.02					1	mg/L	lbs/day			
s. Iron, Total (7439-89-6)	X		0.094	0.018					1	mg/L	lbs/day			
t. Magnesium, Total (7439-95-4)	X		33	6.3					1	mg/L	lbs/day			
u. Molybdenum, Total (7439-98-7)	X		< 0.10	< 0.02					1	mg/L	lbs/day			
v. Manganese, Total (7439-96-5)	X		< 0.010	< 0.002					1	mg/L	lbs/day			
w. Tin, Total (7440-31-5)	X		< 1.0	< 0.2					1	mg/L	lbs/day			
x. Titanium, Total (7440-32-6)	X		< 0.10	< 0.02					1	mg/L	lbs/day			

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PART C - If you are a primary industry and this outfall contains process wastewater, refer to Table 2c-2 in the instructions to determine which of the GC/MS fractions you must test for. Mark "X" in column 2-a for all such GC/MS fractions that apply to your industry and for ALL toxic metals, cyanides, and total phenols. If you are not required to mark column 2-a (secondary industries, nonprocess wastewater outfalls, and non-required GC/MS fractions), mark "X" in column 2-b for each pollutant you know or have reason to believe is present. Mark "X" in column 2-c for each pollutant you believe is absent. If you mark column 2a for any pollutant, you must provide the results of at least one analysis for that pollutant. If you mark column 2b for any pollutant, you must provide the results of at least one analysis for that pollutant if you know or have reason to believe it will be discharged in concentrations of 10 ppb of greater. If you mark column 2b for acrolein, acrylonitrile, 2,4 dinitrophenol, or 2-methyl-4,6 dinitrophenol, you must provide the results of at least one analysis for each of these pollutants which you know or have reason to believe that you discharge in concentrations of 100 ppb or greater. Otherwise, for pollutants for which you mark column 2b, you must either submit at least one analysis or briefly describe the reasons the pollutant is expected to be discharged. Note that there are seven pages to this part; please review each carefully. Complete one table (all 7 pages) for each outfall. See instructions for additional details and requirements.

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK "X"			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
METALS, CYANIDE, AND TOTAL PHENOLS															
1M. Antimony, Total (7440-36-0)		X		< 0.50	< 0.10					1	mg/L	lbs/day			
2M. Arsenic, Total (7440-38-2)		X		< 0.0050	< 0.0010					1	mg/L	lbs/day			
3M. Beryllium, Total (7440-41-7)		X		< 0.0050	< 0.0010					1	mg/L	lbs/day			
4M. Cadmium, Total (7440-43-9)		X		< 0.010	< 0.002					1	mg/L	lbs/day			
5M. Chromium, Total (7440-47-3)		X		< 0.040	< 0.008					1	mg/L	lbs/day			
6M. Copper, Total (7440-50-8)		X		< 0.004	< 0.001					1	mg/L	lbs/day			
7M. Lead, Total (7439-92-1)		X		< 0.200	< 0.038					1	mg/L	lbs/day			
8M. Mercury, Total (7439-97-6)		X		< 0.0002	< 0.0000					1	mg/L	lbs/day			
9M. Nickel, Total (7440-02-0)		X		< 0.050	< 0.010					1	mg/L	lbs/day			
10M. Selenium, Total (7782-49-2)		X		< 0.0050	< 0.0010					1	mg/L	lbs/day			
11M. Silver, Total (7440-22-4)		X		< 0.040	< 0.008					1	mg/L	lbs/day			
12M. Thallium, Total (7440-28-0)		X		< 0.20	< 0.04					1	mg/L	lbs/day			
13M. Zinc, Total (7440-66-6)		X		< 0.020	< 0.004					1	mg/L	lbs/day			
14M. Cyanide, Total (57-12-5)		X		< 0.005	< 0.001					4	mg/L	lbs/day			
15M. Phenols, Total		X		< 0.020	< 0.004					4	mg/L	lbs/day			
DIOXIN															
2,3,7,8-Tetrachlorodibenzo-P-Dioxin (1764-01-6)			X	DESCRIBE RESULTS											

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1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS															
1V. Acrolein (107-02-8)			X												
2V. Acrylonitrile (107-13-1)			X												
3V. Benzene (71-43-2)			X												
4V. Bis (Chloromethyl) Ether (542-88-1)			X												
5V. Bromoform (75-25-2)			X												
6V. Carbon tetrachloride (56-23-5)			X												
7V. Chlorobenzene (108-90-7)			X												
8V. Chlorodibromomethane (124-48-1)			X												
9V. Chloroethane (75-00-3)			X												
10V. 2-Chloroethylvinyl ether (110-75-8)			X												
11V. Chloroform (67-66-3)			X												
12V. Dichlorobromomethane (75-27-4)			X												
13V. Dichlorodifluoromethane (75-71-8)			X												
14V. 1,1-Dichloroethane (75-34-3)			X												
15V. 1,2-Dichloroethane (107-06-2)			X												
16V. 1,1-Dichloroethylene (75-35-4)			X												
17V. 1,2-Dichloropropane (78-87-5)			X												
18V. 1,3-Dichloropropylene (542-75-6)			X												
19V. Ethylbenzene (100-41-4)			X												
20V. Methyl bromide (74-83-9)			X												
21V. Methyl chloride (74-87-3)			X												

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CONTINUED FROM PAGE V-4

1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4. UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - VOLATILE COMPOUNDS *(continued)*															
22V. Methylene chloride (75-09-2)			X												
23V. 1,1,2,2-Tetrachloroethane (79-34-5)			X												
24V. Tetrachloroethylene (127-18-4)			X												
25V. Toluene (108-88-3)			X												
26V. 1,2-Trans-dichloroethylene (156-60-5)			X												
27V. 1,1,1-Trichloroethane (71-55-6)			X												
28V. 1,1,2-Trichloroethane (79-00-5)			X												
29V. Trichloroethylene (79-01-6)			X												
30V. Trichlorofluoromethane (75-69-4)			X												
31V. Vinyl chloride (75-01-4)			X												
GC/MS FRACTION - ACID COMPOUNDS															
1A. 2-Chlorophenol (95-57-8)			X												
2A. 2,4-Dichlorophenol (120-83-2)			X												
3A. 2,4-Dimethylphenol (105-67-9)			X												
4A. 4,6-Dinitro-O-cresol (534-52-1)			X												
5A. 2,4-Dinitrophenol (51-28-5)			X												
6A. 2-Nitrophenol (88-75-5)			X												
7A. 4-Nitrophenol (100-02-7)			X												
8A. P-Chloro-M-cresol (59-50-7)			X												
9A. Pentachlorophenol (87-86-5)			X												
10A. Phenol (108-95-2)			X												
11A. 2,4,6-Trichlorophenol (88-06-2)			X												

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4.UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c. LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS															
1B. Acenaphthene (83-32-9)			X												
2B. Acenaphthylene (208-96-8)			X												
3B. Antracene (120-12-7)			X												
4B. Benzidine (92-87-5)			X												
5B. Benzo (a) anthracene (56-55-3)			X												
6B. Benzo (a) pyrene (50-32-8)			X												
7B. 3,4-Benzofluoranthene (205-99-2)			X												
8B. Benzo (ghi) perylene (191-24-2)			X												
9B. Benzo (k) fluoranthene (207-08-9)			X												
10B. Bis (2chloroethoxy) methane (111-91-1)			X												
11B. Bis (2-chloroethyl) ether (111-44-4)			X												
12B. Bis (2-chloroisopropyl) ether (102-60-1)			X												
13B. Bis (2-ethylhexyl) phthalate (117-81-7)			X												
14B. 4-Bromophenyl phenyl ether (101-55-3)			X												
15B. Butyl benzyl phthalate (85-68-7)			X												
16B. 2-Chloronaphthalene (91-58-7)			X												
17B. 4-Chlorophenyl phenyl ether (7005-72-3)			X												
18B. Chrysene (218-01-9)			X												
19B. Dibenzo (a,h) anthracene (53-70-3)			X												
20B. 1,2-Dichlorobenzene (95-50-1)			X												
21B. 1,3-Dichlorobenzene (541-73-1)			X												

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EPA I.D. NUMBER *(copy from Item 1 of Form 1)*	OUTFALL NUMBER
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1. POLLUTANT AND CAS NUMBER *(if available)*	2. MARK 'X'			3. EFFLUENT							4.UNITS		5. INTAKE *(optional)*		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c.LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS *(continued)*															
22B. 1,4-Dichlorobenzene (106-46-7)			X												
23B. 3,3'-Dichlorobenzidine (91-94-1)			X												
24B. Diethyl phthalate (84-66-2)			X												
25B. Dimethyl phthalate (131-11-3)			X												
26B. Di-N-butyl phthalate (84-74-2)			X												
27B. 2,4-Dinitrotoluene (121-14-2)			X												
28B. 2,6-Dinitrotoluene (606-20-2)			X												
29B. Di-N-octyl phthalate (117-84-0)			X												
30B. 1,2-Diphenylhydrazine (122-66-7)			X												
31B. Fluoranthene (206-44-0)			X												
32B. Fluorene (86-73-7)			X												
33B. Hexachlorobenzene (118-74-1)			X												
34B. Hexachlorobutadiene (87-68-3)			X												
35B. Hexachlorocyclopentadiene (77-47-4)			X												
36B. Hexachloroethane (67-72-1)			X												
37B. Indeno (1,2,3-cd) pyrene (193-39-5)			X												
38B. Isophorone (78-59-1)			X												
39B. Naphthalene (91-20-3)			X												
40B. Nitrobenzene (98-95-3)			X												
41B. N-Nitrosodimethylamine (62-75-9)			X												
42B. N-Nitrosodi-N-propylamine (621-64-7)			X												

CONTINUE ON REVERSE

CONTINUED FROM THE FRONT

1. POLLUTANT AND CAS NUMBER (if available)	2. MARK 'X'			3. EFFLUENT							4.UNITS		5. INTAKE (optional)		
	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE (if available)		c.LONG TERM AVRG. VALUE (if available)		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - BASE/NEUTRAL COMPOUNDS (continued)															
43B. N-Nitrosodiphenylamine (86-30-6)			X												
44B. Phenanthrene (85-01-8)			X												
45B. Pyrene (129-00-0)			X												
46B. 1,2,4-Trichlorobenzene (120-82-1)			X												
GC/MS FRACTION - PESTICIDES															
1P. Aldrin (309-00-2)			X												
2P. -BHC (319-84-6)			X												
3P. -BHC (319-85-7)			X												
4P. -BHC (58-89-9)			X												
5P. -BHC (319-86-8)			X												
6P. Chlordane (57-74-9)			X												
7P. 4,4'-DDT (50-29-3)			X												
8P. 4,4'-DDE (72-55-9)			X												
9P. 4,4'-DDD (72-54-8)			X												
10P. Dieldrin (60-57-1)			X												
11P. -Endosulfan (115-29-7)			X												
12P. -Endosulfan (115-29-7)			X												
13P. Endosulfan Sulfate (1031-07-8)			X												
14P. Endrin (72-20-8)			X												
15P. Endrin Aldehyde (7421-93-4)			X												
16P. Heptachlor (76-44-8)			X												

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	a. TESTING REQUIRED	b. BELIEVED PRESENT	c. BELIEVED ABSENT	a. MAXIMUM DAILY VALUE		b. MAXIMUM 30 DAY VALUE *(if available)*		c. LONG TERM AVRG. VALUE *(if available)*		d. NO. OF ANALYSES	a. CONCENTRATION	b. MASS	a. LONG TERM AVERAGE VALUE		d. NO. OF ANALYSES
				(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS	(1) CONCENTRATION	(2) MASS				(1) CONCENTRATION	(2) MASS	
GC/MS FRACTION - PESTICIDES *(continued)*															
17P. Heptachlor Epoxide (1024-57-3)			X												
18P. PCB-1242 (53469-21-9)			X												
19P. PCB-1254 (11097-69-1)			X												
20P. PCB-1221 (11104-28-2)			X												
21P. PCB-1232 (11141-16-5)			X												
22P. PCB-1248 (12672-29-6)			X												
23P. PCB-1260 (11096-82-5)			X												
24P. PCB-1016 (12674-11-2)			X												
25P. Toxaphene (8001-35-2)			X												

MATERIAL SAFETY DATA SHEET

CORPORATE RESEARCH & DEVELOPMENT
120 ERIE BOULEVARD
SCHENECTADY, N.Y. 12305

MATERIALS INFORMATION SERVICES

NO. [illegible]

SODIUM HYPOCHLORITE, AQUEOUS SOLUTION (5-12%)

DATE February 1983

SECTION I. MATERIAL IDENTIFICATION

MATERIAL NAME: SODIUM HYPOCHLORITE, AQUEOUS SOLUTION (5-12%)
OTHER DESIGNATIONS: Soda Bleach Liquor Bleach Solution, Hypochlorite Solution, NaOCl Solution, SUNNY SOL Bleach (Jones Chemicals), Household Bleach (i.e. CLOROX®, PUREX®)
MANUFACTURER: Available from many suppliers, including:

Canadian Industries Limited
Chemicals
Box 10
Montreal, Quebec H3C 2R3

Jones Chemicals, Inc.
100 Sunny Sol Blvd
Caledonia, NY 14423
Tel: (716) 538-2311

SECTION II. INGREDIENTS AND HAZARDS

	%	HAZARD DATA
Sodium hypochlorite (CAS #007 681 529) Water, sodium chloride and sodium hydroxide (if present in excess). (Excess NaOH will pose an increased alkalinity hazard.) *Solution concentration can also be stated in terms of "available chlorine" which is about 95% of NaOCl content by weight.	ca 5-12 Balance	No TLV Established Rat, Oral (12% Solution) LD_{50} ca 12 mg/kg *5% soln is reported to be much less toxic.

SECTION III. PHYSICAL DATA

Boiling point --- decomposes (see Sect V)
Vapor pressure, 20 C, mm Hg ------- 17.5
Water solubility ---------- complete
pH ("neutral" solution)* ---------- 9-10
Molecular weight ---------- 74.4

Specific gravity (20/4C):
5.25% (Household bleach) - 1.09
8.0% ---------- 1.15
12.0% ---------- 1.21
Freezing point, 12.0%, deg C - ca -2C

Appearance & Odor: Clear, pale yellow or greenish liquid with a chlorine odor.
*Some products may contain an excess of NaOH and have a higher pH.

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point and Method	Autoignition Temp.	Flammability Limits in Air	Lower	Upper
Nonflammable			—	—

Use extinguishing media that is appropriate for surrounding fire. Use water spray from a safe distance to cool fire-exposed containers, to dilute liquid, and control vapors. It is an oxidizing agent. Vigorous reactions can occur with oxidizable materials in a fire situation. It can be decomposed by heat. Chlorine liberated on contact with acid.
If safe, remove containers from fire area to prevent pressure rupture.
Firefighters should wear full protective clothing and self-contained breathing apparatus. (Protection is needed against corrosive fumes and liquid if released.)

SECTION V. REACTIVITY DATA

Anhydrous material is unstable, but these water solutions can be satisfactorily stable for months under proper storage conditions. Rate of decomposition increases with the concentration and with the temperature. (12% NaOCl solution decomposes slowly at 40 C to yield NaCl and $NaClO_3$). Exposure to sunlight accelerates decomposition.
It is incompatible with acids (liberates chlorine), ammonia, urea, oxidizable materials, and metals such as nickel, copper, tin, manganese and iron (which cause liberation of oxygen).

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GENERAL ELECTRIC

Material Safety Data Sheet

Genium Publishing Corporation
1145 Catalyn Street
Schenectady, NY 12303-1836 USA
(518) 377-8855

GENIUM PUBLISHING CORP.

No. 9
SULFURIC ACID, CONCENTRATED
Revision C
Issued: October 1980
Revised: February 1986

SECTION 1. MATERIAL IDENTIFICATION

MATERIAL NAME: SULFURIC ACID, CONCENTRATED

OTHER DESIGNATIONS: Oil of Vitriol, Hydrogen Sulfate; H_2SO_4; CAS #7664-93-9

MANUFACTURER/SUPPLIER: Available from many suppliers, including:
Allied Corporation, PO Box 2064R, Morristown, NJ 07960; Telephone: 800 631-8050

HMIS
H:3
F: 0
R: 2
PPE: *
* See Sect. 8

R 1
I 3
S 4
K B

SECTION 2. INGREDIENTS AND HAZARDS

	%	HAZARD DATA
Hydrogen Sulfate (H_2SO_4) Water * Material is obtained by the reaction of SO_3 and water. Can contain low impurity levels, such as 0.02% max of iron as Fe. Properties vary with H_2SO_4 content. Current OSHA standard and ACGIH (1985-86) TLV. NIOSH has a 10-hr TWA, 40-hr. work week, of 1 mg/m^3.	93-98 Balance*	8-hr TWA: 1 mg/m^3 Human, Mist Inhalation, TCLo: 3 mg/m^3, 24 wk. (Toxic Mouth Effects) Rat, Oral, LD_{50}: 2140 mg/kg

SECTION 3. PHYSICAL DATA

	93.19% H_2SO_4	98.33% H_2SO_4	100% H_2SO_4
Boiling Point, 1 atm, deg C	ca 281	ca 338	ca 330 (dc)
Specific Gravity (60/60°F)	1.8354	1.84	1.84
Volatiles, % @ 340°C	ca 100	ca 100	ca 100
Melting Point, deg C	ca -34	ca 3	10.4

Water Solubility ... Complete Miscible
Vapor Pressure, mm Hg @ 100°F ... <1 (93.19% H_2SO_4); Deg. Baume ... 66 (93.19% H_2SO_4) - Density of H_2SO_4 is often reported in degrees Baume Be). Formula is Be=145 [145/sp gr for liquids heavier than water].

Appearance and odor: Clear, colorless, hygroscopic, oily liquid with no odor. Mists greater than 1 mg/m^3 are easily recognizable. Those at 5 mg/m^3 are distinctly objectionable.

SECTION 4. FIRE AND EXPLOSION DATA

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	LOWER	UPPER
None - Nonflammable	NA	NA	NA	NA

Sulfuric acid is nonflammable; however, it is a strong oxidizing agent and may cause ignition by contact with combustible materials. Small fires may be smothered with suitable dry chemical. Cool exterior of storage tanks of H_2SO_4 with water to avoid rupture if exposed to fire. Do not add water or other liquid to the acid! The acid, especially when diluted with water, can react with metals to liberate flammable hydrogen gas.
Sulfuric acid mists and vapors from a fire area are corrosive (see sect. 5).
Fire fighters must wear self-contained breathing equipment and fully protective clothing.

SECTION 5. REACTIVITY DATA

Sulfuric acid is stable under normal conditions of use and storage. It does not undergo hazardous polymerization. It is a strong mineral acid reacting with bases and metals. The concentrated acid is also a dehydrating agent, picking up moisture readily from the air or other materials. Hydrogen gas may be generated within a H_2SO_4 container. Vent drums cautiously.

This material reacts exothermically with water. (Acid should always be added slowly to water. Water added to acid can cause boiling and uncontrolled splashing of the acid.) Sulfur oxides can result from decomposition and from oxidizing reactions of sulfuric acid.

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SECTION 6. HEALTH HAZARD INFORMATION | TLV

Concentrated sulfuric acid is a strong mineral acid, an oxidizing agent, and a dehydrating agent that is rapidly damaging to all human tissue with which it comes in contact. Ingestion may cause severe injury or death. Eye contact produces severe or permanent injury. Inhalation of mists can damage both the upper respiratory tract and the lungs. Sulfuric acid is not listed as a carcinogen by the NTP, IARC, or OSHA.

FIRST AID: EYE CONTACT: Immediately flush eyes (including under eyelids) with plenty of running water for at least 15 minutes. Speed in diluting and rinsing out acid with water is extremely important if permanent eye damage is to be avoided. Obtain medical help as soon as possible.* SKIN CONTACT: Immediately flush affected areas with water, removing contaminated clothing while under the safety shower. Continue washing with water and get medical attention.* INHALATION: Remove to fresh air. Restore breathing. Call a physician immediately. INGESTION: Dilute acid immediately with large amounts of milk or water, then give milk of magnesia to neutralize. Never give anything by mouth to an unconscious person. Do not induce vomiting; if it occurs spontaneously, continue to administer fluid. Obtain medical attention as soon as possible.*

Maintain observation of patient for possible delayed onset of pulmonary edema.

* GET MEDICAL HELP = In plant, paramedic, community.

SECTION 7. SPILL, LEAK, AND DISPOSAL PROCEDURES

Handle major spills by a predetermined plan. Contact supplier for assistance in this planning, in meeting local regulations, and for disposing of large amounts. Notify safety personnel. Provide optimum ventilation; vapors are extremely irritating. Stop leak if you can do so without risk.

Cleanup personnel need protection against inhalation or contact. Keep upwind. Contain spill. Minor leaks or spills can be diluted with much water and neutralized with soda ash or lime. If water is not available, cover contaminated area with sand, ashes, or gravel and neutralize cautiously with soda ash or lime.

DISPOSAL: Follow Federal, state, and local regulations. Runoff to sewer may create hydrogen gas, which is a fire or explosion hazard. EPA (CWA) RQ 1000 lbs. (40 CFR 117).

SECTION 8. SPECIAL PROTECTION INFORMATION

Provide general ventilation to meet current TLV requirements in the workplace. Where mists are up to 50 mg/m^3, a high-efficiency particulate respirator with full facepiece is warranted; a type-C supplier-air respirator with full facepiece operated in pressure-demand mode is used to 100 mg/m^3.

Avoid eye contact by use of chemical safety goggles or face shield where splashing may occur. Acid-resistant protective clothing, such as rubber gloves, aprons, boots, and suits, is recommended to avoid body contact.

Eyewash fountain and safety showers with deluge type of heads should be readily available where this material is handled or stored.

Contact lenses pose a special hazard; soft lenses may absorb and all lenses concentrate irritants.

Comprehensive preplacement and annual medical examinations with emphasis on dental erosion, cardiopulmonary system, and mucous membrane irritation and cough are indicated.

SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

Sulfuric acid in carboys or drums should be stored in clean, ventilated storage areas having acid-resistant floors with good drainage. Keep out of direct sunlight, do not store above 89.6°F (32°C). Storage facilities are to be separate from organic materials, metallic powders, chromates, chlorates, nitrates, carbides, oxidizables, etc. Soda ash, sand, or lime should be kept in general storage or work areas for emergency use. Protect containers against physical damage. Glass bottles need extra protection. Sulfuric acid is highly corrosive to most metals, especially below 77% H_2SO_4. Avoid breathing mist or vapors. Avoid contact with skin or eyes. Do not ingest. Do not add water to concentrated acid. Drums may contain hydrogen gas, so open cautiously. Use nonsparking tools free of oil, dirt, and grit and vapor-proof electrical fixtures

DOT Classification: Corrosive Material. ID No.: UN1830 Label: Corrosive

Data Source(s) Code: 1-12, 19, 20, 24, 26, 31, 37-39, 42, 82. CK

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Approvals [illegible] 6/86.

Indust. Hygiene/Safety [illegible] 6/86

Medical Review [illegible] 6/86

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MATERIAL SAFETY DATA SHEET

GENIUM PUBLISHING CORPORATION
1145 CATALYN ST., SCHENECTADY, NY 12303 USA (518) 377-8854

From Genium's MSDS Collection, to be used as a reference.

MSDS # N 3A
SODIUM HYDROXIDE
50% LIQUID
Revision A
Issued: October, 1977
Revised: August, 1985

SECTION 1. MATERIAL IDENTIFICATION

MATERIAL NAME: SODIUM HYDROXIDE, 50% LIQUID
OTHER DESIGNATIONS: Liquid caustic soda, lye solution, CAS #1310-73-2 (NaOH).
MANUFACTURER: Available from many sources including:
Diamond Shamrock Co., Chlor-Alkali Div.
351 Phelps Court, Box 152300
Irving, TX 75015-2300
(800) 241-3134

SECTION 2. INGREDIENTS AND HAZARDS

	%	HAZARD DATA
SODIUM HYDROXIDE (NaOH)	>48.5	Ceiling Limit: 2 mg/
TYPICAL IMPURITIES:		
Carbonate (as Na_2CO_3)	<0.25	1% NaOH Soln
Chloride (as NaCl)	<1.15	
Chlorate (as $NaClO_3$)	<0.25	Eye, rabbit: Severe irritation
Sulfate (as Na_2SO_4)	<0.03	
Silica (as SiO_2)	<0.01	
Water	balance	
• Current (1985-86) ACGIH TLV. Current OSHA PEL is 2.0 mg/m^3 averaged over	8 hours.	

SECTION 3. PHYSICAL DATA

Boiling point, 1 atm .... ca 140°C
Volatiles (water) 50%
Water Solubility ..... complete
Viscosity @ 20°C, cps ... 50
Specific gravity, 60/60°F ... 1.53
Density, lbs/gal 12.76

APPEARANCE & ODOR: Clear liquid - No odor.

DESCRIPTION: A 50% solution of sodium hydroxide (NaOH) in water.

SECTION 4. FIRE AND EXPLOSION DATA

Flash Point and Method	Autoignition Temp.	Flammability Limits in Air	Lower	Upp
None - not combustible	N/A	N/A	N/A	N/A

EXTINGUISHING MEDIA:
Use extinguishing agents suitable for the surrounding fire. Use water spray to cool containers of this material which are involved in a fire situation to help prevent rupture.
Sodium hydroxide will react with metals such as aluminum, tin, and zinc to generate flammable and explosi hydrogen gas.

Firefighters should wear self contained breathing apparatus and full protective gear to prevent contact w this corrosive material.

SECTION 5. REACTIVITY DATA

This material is stable under normal storage conditions in sealed containers. Polymerization will not oc There are no hazardous decomposition products. It reacts with CO_2 in the air to form sodium carbonate. I reacts violently with acids accompanied by heat generation and with many organic chemicals, especially nitrocarbons and halocarbons. It can react with trichloroethylene to form spontaneously flammable dichloroacetylene.
Avoid contact with leather and wool. Contact with aluminum, tin, magnesium, zinc, and alloys that contain these metals causes the formation of hydrogen gas (MSDS #65) (flammable).

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SECTION 6. HEALTH HAZARD INFORMATION

TLV Ceiling Unit: 2 mg/m^3

Sodium Hydroxide is a strong alkali and is dangerous when improperly handled. It is destructive to all human tissue it contacts, producing severe burns. Eye contact causes severe, permanent injury. Skin contact causes irritation and, if not removed immediately, severe burns with scarring. The effects of inhalation of the mist varies from mild irritation to destructive burns. Pneumonitis may occur. Ingestion causes severe burns of the mouth, throat and stomach and may be fatal.

FIRST AID: Wash eyes immediately with plenty of running water for at least 15 minutes, including under eyelids and all surfaces. Speed in rinsing eyes with water is important if permanent injury is to be avoided. Get medical help immediately. SKIN CONTACT: Flush exposed area promptly with large quantities of water. Remove contaminated clothes while washing. Prolong washing in serious cases until medical help arrives. Get medical attention for serious exposure. INGESTION: Immediately give person large quantities of water or milk to drink. (Never give anything by mouth to an unconscious person). Do not induce vomiting. Obtain medical assistance immediately. INHALATION: Remove from exposure to mist and get prompt medical help. (Paramedic, Inplant, community).

SECTION 7. SPILL, LEAK AND DISPOSAL PROCEDURES

Planning ahead is essential for handling spills. Clean-up personnel should wear protective equipment to prevent skin and eye contact. Pick-up spill with vacuum equipment (alkali resistant) for disposal or flush to holding area with water. Neutralize residue with dilute acid and rinse with water.

DISPOSAL: Waste caustic must never be discharged directly to sewers, drains or surface waters. Dilute well with water and carefully neutralize with acid. Follow all applicable federal, state and local regulations.

EPA HAZARDOUS WASTE NUMBER: D002, corrosive (soln $\geq$ pH 12.5)-40CFR 261.22

REPORTABLE SPILL QUANTITY: 1000 lbs (40CFR117)

SECTION 8. SPECIAL PROTECTION INFORMATION

Provide adequate general ventilation and exhaust ventilation to meet TLV requirement, especially where the possibility of mist formation exists. Use a NIOSH-approved respirator with full face covering for mist, where needed. Use chemical safety goggles. A plastic faceshield, in addition to safety goggles, should be worn if splashing is probable. Use rubber gloves, apron or protective clothing and rubber boots where needed to prevent contact with sodium hydroxide solution.

Eyewash stations and safety showers must be immediately available.

THIS MATERIAL POSES A SPECIAL HAZARD TO CONTACT LENSES WEARERS; the slippery nature of this solution would make it extremely difficult to remove the contact lenses. Critical rinsing of the contaminated eye would be delayed.

SECTION 9. SPECIAL PRECAUTIONS AND COMMENTS

Store in well-sealed containers. Protect containers from physical damage. Avoid handling conditions which can lead to spills or mist formation. Have abundant water (preferably running water) available where material is stored, unloaded, and handled for emergency use. Drains servicing areas where this material is stored or used should have retention basins for pH adjustment and dilution of spills and flushings before discharge. Workers handling this material should be trained in proper handling precautions and emergency procedures, with proper protective equipment nearby.

DOT HAZARD CLASSIFICATION: Corrosive Material

DOT LABEL: Corrosive

DOT ID NUMBER: UN1824

DATA SOURCE(S) CODE (See Glossary) 2, 4, 9, 11, 12, 27, 55, 58.V.

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APPROVALS. DO Accrocco, 11/85

INDUST. HYGIENE/SAFETY [signature] 11/85

MEDICAL REVIEW: [signature] Nov 85

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ATTENTION: Safety and Industrial Hygiene advises users to review the intended use of this information with his/her supervisor or Safety and Industrial Hygiene advisor.

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01 - GENERAL INFORMATION

MATERIAL SAFETY DATA SHEET
NALCO CHEMICAL COMPANY
ONE NALCO CENTER
NAPERVILLE, ILLINOIS 60566-1024
AREA
312-961-9500
PRODUCT
NALCLEAR 7744 ANIONIC POLYMER
EMERGENCY TELEPHONE NUMBER
MEDICAL
(312) 920-1510 (24 HOURS)
PREPARED BY:
JOHN J. KASPER, MSC., MANAGER PRODUCT SAFETY
DATE CHANGED:
06/20/88
DATE PRINTED:
07/09/88

02 - SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME:
NALCLEAR 7744 ANIONIC POLYMER
DESCRIPTION:
AN AQUEOUS SOLUTION OF AN ACRYLAMIDE/ACRYLATE POLYMER
NFPA 704M/HMIS RATING:
1/1 HEALTH
1/1 FLAMMABILITY
0/0 REACTIVITY
0 OTHER
0=INSIGNIFICANT
1=SLIGHT
2=MODERATE
3=HIGH
4=EXTREME

03 - SECTION 2 HAZARDOUS INGREDIENTS

OUR HAZARD EVALUATION OF THE INGREDIENT(S) UNDER OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 HAS FOUND NONE OF THE INGREDIENT(S) HAZARDOUS.

04 - SECTION 3 PRECAUTIONARY LABEL INFORMATION

CAUTION:
MAY CAUSE IRRITATION TO SKIN AND EYES. AVOID CONTACT WITH SKIN, EYES, AND CLOTHING. AVOID PROLONGED OR REPEATED BREATHING OF VAPOR. USE WITH ADEQUATE VENTILATION. DO NOT TAKE INTERNALLY.
EMPTY CONTAINERS MAY CONTAIN RESIDUAL PRODUCT. DO NOT REUSE CONTAINER UNLESS PROPERLY RECONDITIONED.

05 - SECTION 4 FIRST AID INFORMATION

EYES:
FLUSH WITH WATER FOR 15 MINUTES. CALL A PHYSICIAN.
SKIN:
WASH THOROUGHLY WITH SOAP AND RINSE WITH WATER. CALL A PHYSICIAN.
NOTE TO PHYSICIAN:
NO SPECIFIC ANTIDOTE IS KNOWN. BASED ON THE INDIVIDUAL REACTIONS OF THE PATIENT, THE PHYSICIAN'S JUDGMENT SHOULD BE USED TO CONTROL SYMPTOMS AND CLINICAL CONDITION.
CAUTION:

IF UNCONSCIOUS, HAVING TROUBLE BREATHING OR IN CONVULSIONS, DO NOT INDUCE VOMITING OR GIVE WATER.

06 - SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE:
EYE, SKIN
EYE CONTACT:
MAY CAUSE IRRITATION WITH PROLONGED CONTACT.
SKIN CONTACT:
MAY CAUSE IRRITATION WITH PROLONGED CONTACT.
SYMPTOMS OF EXPOSURE:
A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY SYMPTOMS FROM EXPOSURE.
AGGRAVATION OF EXISTING CONDITIONS:
A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY WORSENING OF EXISTING CONDITIONS.

07 - SECTION 6 TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES:
ACUTE TOXICITY STUDIES HAVE NOT BEEN CONDUCTED ON THIS PRODUCT, BUT ACUTE STUDIES HAVE BEEN CONDUCTED ON A SIMILAR PRODUCT. THE RESULTS ARE SHOWN BELOW.
ACUTE ORAL TOXICITY (ALBINO RATS):
LD50 = GREATER THAN 5,000 MG/KG
PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):
SKIN IRRITATION INDEX DRAIZE RATING:
0.0/8.0 NON-IRRITATING
COMMENTS:
A SIMILAR PRODUCT PRODUCED NO IRRITATION.
PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):
EYE IRRITATION INDEX DRAIZE RATING:
2.3/110.0 MINIMALLY IRRITATING

08 - SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

COLOR:
CREAM
FORM:
LIQUID
ODOR:
SLIGHT HYDROCARBON
DENSITY:
8.5 LBS/GAL.
SOLUBILITY IN WATER:
DISPERSIBLE

SPECIFIC GRAVITY:
1.01 @ 60 DEGREES F
PH (NEAT) = 4.2 PLUS/MINUS 0.5
FLASH POINT:
GREATER THAN 200 DEGREES F
ASTM D-1298
ASTM E-70
NOTE: THESE PHYSICAL PROPERTIES ARE TYPICAL VALUES FOR THIS PRODUCT.

09 - SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT:
GREATER THAN 200 DEGREES F
EXTINGUISHING MEDIA:
THIS PRODUCT WOULD NOT BE EXPECTED TO BURN UNLESS ALL THE WATER IS BOILED AWAY. THE REMAINING ORGANICS MAY BE IGNITABLE. USE WATER TO COOL CONTAINERS EXPOSED TO FIRE.

10 - SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY:
NONE KNOWN
THERMAL DECOMPOSITION PRODUCTS:
IN THE EVENT OF COMBUSTION CO, CO2 MAY BE FORMED. DO NOT BREATHE SMOKE OR FUMES. WEAR SUITABLE PROTECTIVE EQUIPMENT.

11 - SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION:
RESPIRATORY PROTECTION IS NOT NORMALLY NEEDED.
FOR LARGE SPILLS, ENTRY INTO LARGE TANKS, VESSELS OR ENCLOSED SMALL SPACES WITH INADEQUATE VENTILATION, A PRESSURE-DEMAND, SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.
VENTILATION:
GENERAL VENTILATION IS RECOMMENDED.
PROTECTIVE EQUIPMENT:
USE IMPERMEABLE GLOVES AND CHEMICAL SPLASH GOGGLES (ANSI Z 87.1 REQUIREMENTS AND SELECTION OF GLOVES, GOGGLES, SHOES, ETC.) WHEN ATTACHING FEEDING EQUIPMENT OR DOING MAINTENANCE.
IF CLOTHING IS CONTAMINATED, REMOVE CLOTHING AND THOROUGHLY WASH THE AFFECTED AREA. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

12 - SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER
(312-920-1510)
SPILL CONTROL AND RECOVERY:
SMALL LIQUID SPILLS:
CONTAIN WITH ABSORBENT MATERIAL, SUCH AS CLAY, SOIL OR ANY COMMERCIALLY AVAILABLE ABSORBENT. SHOVEL RECLAIMED LIQUID AND ABSORBENT INTO RECOVERY OR SALVAGE DRUMS FOR DISPOSAL. REFER TO CERCLA IN SECTION 14.

LARGE LIQUID SPILLS:
DIKE TO PREVENT FURTHER MOVEMENT AND RECLAIM INTO RECOVERY OR SALVAGE DRUMS OR TANK TRUCK FOR DISPOSAL. REFER TO CERCLA IN SECTION 14.

DISPOSAL:
IF THIS PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261, SINCE IT DOES NOT HAVE THE CHARACTERISTICS OF SUBPART C, (I.E. D001 THROUGH D017) NOR IS IT LISTED UNDER SUBPART D. AS A NON-HAZARDOUS LIQUID WASTE, IT SHOULD BE SOLIDIFIED BEFORE DISPOSAL TO A SANITARY LANDFILL. CAN BE DEEP-WELL INJECTED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

13 - SECTION 12 ENVIRONMENTAL INFORMATION

IF RELEASED INTO THE ENVIRONMENT, SEE CERCLA IN SECTION 14.

14 - SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - PRODUCT IS NOT REGULATED DURING TRANSPORTATION

15 - SECTION 14 REGULATORY INFORMATION

THE FOLLOWING REGULATIONS APPLY TO THIS PRODUCT.
FEDERAL REGULATIONS:
OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:
BASED ON OUR HAZARD EVALUATION, NONE OF THE INGREDIENTS IN THIS PRODUCT ARE HAZARDOUS.

CERCLA/SUPERFUND, 40 CFR 117, 302:
NOTIFICATION OF SPILLS OF THIS PRODUCT IS NOT REQUIRED.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):
THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED IN APPENDIX A AND B AS AN EXTREMELY HAZARDOUS SUBSTANCE.

SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):
OUR HAZARD EVALUATION HAS FOUND THAT THIS PRODUCT IS NOT HAZARDOUS UNDER 29 CFR 1910.1200.

UNDER SECTION 311, SUBMITTAL OF MSDS'S OR A LIST OF PRODUCT NAMES TO THE LOCAL EMERGENCY PLANNING COMMISSION, STATE EMERGENCY RESPONSE COMMISSION AND LOCAL FIRE DEPARTMENT IS REQUIRED AFTER OCTOBER 17, 1987 IF YOU HAVE:

- 10,000 POUNDS OR MORE OF A HAZARDOUS SUBSTANCE, OR
- 500 POUNDS OR THE THRESHOLD PLANNING QUANTITY, WHICHEVER IS LESS, OF AN EXTREMELY HAZARDOUS SUBSTANCE.

AFTER OCTOBER 17, 1989, MSDS(S), OR A LIST OF PRODUCT NAMES FOR ALL HAZARDOUS SUBSTANCES BETWEEN ZERO (0) AND 10,000 POUNDS, NOT PREVIOUSLY REPORTED, MUST BE SUBMITTED.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):
THIS PRODUCT CONTAINS THE FOLLOWING INGREDIENT(S), (WITH CAS # AND % RANGE) WHICH APPEAR(S) ON THE LIST OF TOXIC CHEMICALS.
SODIUM SULFATE 7757-82-6 1-10

TOXIC SUBSTANCES CONTROL ACT (TSCA):
THE CHEMICAL INGREDIENTS IN THIS PRODUCT ARE ON THE 8(B) INVENTORY LIST (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:
IF THIS PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (FORMERLY SEC. 307), 40 CFR 116 (FORMERLY SEC. 311):
NONE OF THE INGREDIENTS ARE SPECIFICALLY LISTED.

CLEAN AIR ACT, 40 CFR 60, SECTION 111, 40 CFR 61, SECTION 112:
THIS PRODUCT DOES NOT CONTAIN INGREDIENTS COVERED BY THE CLEAN AIR ACT.
STATE REGULATIONS:
CALIFORNIA PROPOSITION 65:
THIS PRODUCT COMPLIES WITH THE MSDS AND LABELING REQUIREMENTS OF THE SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65).

MICHIGAN CRITICAL MATERIALS:
THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED ON THE MICHIGAN CRITICAL MATERIALS REGISTER.

STATE RIGHT TO KNOW LAWS:
THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED BY STATE RIGHT TO KNOW LAWS.

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| 16 - SECTION 15 ADDITIONAL INFORMATION |

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NONE

HEADING: SECTION 16 USER'S RESPONSIBILITY
THIS PRODUCT MATERIAL SAFETY DATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT IS TO BE USED IN APPLICATIONS CONSISTENT WITH OUR PRODUCT LITERATURE. INDIVIDUALS HANDLING THIS PRODUCT SHOULD BE INFORMED OF THE RECOMMENDED SAFETY PRECAUTIONS AND SHOULD HAVE ACCESS TO THIS INFORMATION. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING PRACTICES AND TRAINING PROGRAMS CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE OPERATIONS. PLEASE CONSULT YOUR LOCAL SALES REPRESENTATIVE FOR ANY FURTHER INFORMATION.

HEADING: SECTION 17 BIBLIOGRAPHY
ANNUAL REPORT ON CARCINOGENS, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, PUBLIC HEALTH SERVICE, PB 33-135855, 1983.

CASARETT AND DOULL'S TOXICOLOGY, THE BASIC SCIENCE OF POISONS, DOULL, J., KLAASSEN, C. D., AND AMDUR, M. O., EDS., MACMILLIAN PUBLISHING COMPANY, INC., N.Y., 2ND EDITION, 1980.

CHEMICAL HAZARDS OF THE WORKPLACE, PROCTOR, N. H., AND HUGHES, J. P., EDS., J. P. LIPINCOTT COMPANY, N. Y., 1981.

DANGEROUS PROPERTIES OF INDUSTRIAL MATERIALS, SAX, N. IRVING, ED., VAN NOSTRAND REINHOLD COMPANY, N.Y., 6TH EDITION, 1984.

IARC MONOGRAPHS ON THE EVALUATION OF THE CARCINOGENIC RISK OF CHEMICALS TO MAN, GENEVA: WORLD HEALTH ORGANIZATION, INTERNATIONAL AGENCY FOR RESEARCH ON CANCER, 1972-1977.

PATTY'S INDUSTRIAL HYGIENE AND TOXICOLOGY, CLAYTON, G. D., CLAYTON, F. E., EDS., JOHN WILEY AND SONS, N. Y., 3RD EDITION, VOL. 2 A-C, 1981.

REGISTRY OF TOXIC EFFECTS ON CHEMICAL SUBSTANCES, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, 1983 SUPPLEMENT OF 1981-1982 EDITION, VOL. 1-3, OH, 1984.

TITLE 29 CODE OF FEDERAL REGULATIONS PART 1910, SUBPART Z, TOXIC AND HAZARDOUS SUBSTANCES, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).

THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS IN THE WORKROOM ENVIRONMENT WITH INTENDED CHANGES, AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, OH.

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01 - GENERAL INFORMATION

MATERIAL SAFETY DATA SHEET
ONE NALCO CENTER
NAPERVILLE, ILLINOIS 60563-1198
PRODUCT
NALCO 9249
Emergency Telephone Number
Medical (708) 920-1510 (24 hours)

02 - SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME:
NALCO 9248
DESCRIPTION:
An aqueous solution of a polyacrylate
NFPA 704M/HMIS RATING:
1/1 HEALTH

1/1 FLAMMABILITY
0/0 REACTIVITY
0 OTHER
0=Insignificant
1=Slight
2=Moderate
3=High
4=Extreme

03 - SECTION 2 HAZARDOUS INGREDIENTS

Our hazard evaluation of the ingredient(s) under OSHA's Hazard Communication Rule, 29 CFR 1910.1200 has found none of the ingredient(s) hazardous.

04 - SECTION 3 PRECAUTIONARY LABEL INFORMATION

CAUTION:
May cause irritation to skin and eyes. Avoid contact with skin, eyes and clothing. Do not take internally.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

05 - SECTION 4 FIRST AID INFORMATION

EYES:
Flush with water for 15 minutes. Call a physician.
SKIN:
Flush with water for 15 minutes.
INGESTION:
Do not induce vomiting. Give water. Call a physician.
INHALATION:
Remove to fresh air. Treat symptoms. Call a physician.
NOTE TO PHYSICIAN:
No specific antidote is known. Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.
CAUTION:
If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

06 - SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE:
Eye, Skin
EYE CONTACT:
May cause irritation with prolonged contact.
SKIN CONTACT:
May cause irritation with prolonged contact.
SYMPTOMS OF EXPOSURE:
A review of available data does not identify any symptoms from exposure not previously mentioned.
AGGRAVATION OF EXISTING CONDITIONS:
A review of available data does not identify any worsening of existing conditions.

07 - SECTION 6 TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES:
Acute toxicity studies have been conducted on this product. The results are shown below.
ACUTE ORAL TOXICITY (ALBINO RATS):
LD50 = Greater than 5,000 mg/kg
ACUTE DERMAL TOXICITY (ALBINO RABBITS):
LD50 = Greater than 2,000 mg/kg
PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):
SKIN IRRITATION INDEX DRAIZE RATING:
0.0/8.0 Non-irritating
PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):
EYE IRRITATION INDEX DRAIZE RATING:
2.7/110.0 Minimally irritating

08 - SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

COLOR:
Clear water-white
FORM:
Liquid
ODOR:
Organic
DENSITY:
10.2 lbs/gal.
SOLUBILITY IN WATER:
Completely
SPECIFIC GRAVITY:
1.21 - 1.23 @ 60 Degrees F ASTM D-1298
pH (NEAT) =
3.6 - 4.0 ASTM E-70
VISCOSITY:
51 cps @ 60 Degrees F ASTM D-2983
FREEZE POINT:

20 Degrees F ASTM D-1177

FLASH POINT:

None (PMCC) ASTM D-93

NOTE:

These physical properties are typical values for this product.

09 - SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT:

None (PMCC) ASTM D-93

EXTINGUISHING MEDIA:

This product would not be expected to burn unless all the water is boiled away. The remaining organics may be ignitable. Use water to cool containers exposed to fire.

UNUSUAL FIRE AND EXPLOSION HAZARD:

May evolve NOx or under fire conditions. Containers exposed in a fire should be cooled with water to prevent vapor pressure build up leading to a rupture.

10 - SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY:

Avoid contact with strong oxidizers (eg. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

THERMAL DECOMPOSITION PRODUCTS:

In the event of combustion CO, CO2, NOx may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

11 - SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION:

Respiratory protection is not normally needed since the volatility and toxicity are low. If significant vapors, mists or aerosols are generated, wear a NIOSH approved or equivalent respirator.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

VENTILATION:

General ventilation is recommended.

PROTECTIVE EQUIPMENT:

Use impermeable gloves and chemical splash goggles when attaching feeding equipment or doing maintenance.

The availability of an eye wash fountain and safety shower is recommended.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

12 - SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (708-920-1510)

SPILL CONTROL AND RECOVERY:

Small liquid spills:

Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 14.

Large liquid spills:

Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 14.

DISPOSAL:

If this product becomes a wastes, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous liquid waste, it should be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to an industrial waste landfill. A non-hazardous liquid waste can also be incinerated in accordance with local, state and federal regulations.

13 - SECTION 12 ENVIRONMENTAL INFORMATION

AQUATIC DATA:

96 hour static acute LC50 to Bluegill Sunfish = Greater than 1,000 ppm

96 hour no observed effect concentration is 1,000 ppm based on no mortality or abnormal effects.

96 hour static acute LC50 to Rainbow Trout = Greater than 1,000 ppm

96 hour no observed effect concentration is 1,000 ppm based on no mortality or abnormal effects.

48 hour static acute LC50 to Daphnia Magna = Greater than 1,000 ppm

48 hour no observed effect concentration is 560 ppm based on no mortality or abnormal effects.

TOXICITY RATING:

Essentially non-toxic

96 hour static acute LC50 Mysid Shrimp = 464 mg/L

TOXICITY RATING:
Slightly toxic

96-hour static acute LC50 to Silversides (Menidia beryllina) =
Greater than 1,000 mg/L
TOXICITY RATING:
Essentially non-toxic

If released into the environment, see CERCLA in Section 14.

14 - SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE -
PRODUCT IS NOT REGULATED DURING TRANSPORTATION

15 - SECTION 14 REGULATORY INFORMATION

The following regulations apply to this product.
FEDERAL REGULATIONS:
OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:
Based on our hazard evaluation, none of the ingredients in this product are hazardous.
CERCLA, 40 CFR 117, 302:
Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:
SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):
This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.
SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):
Our hazard evaluation has found that this product is not hazardous under 29 CFR 1910.1200.
SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):
This product does not contain ingredients on the List of Toxic Chemicals.
TOXIC SUBSTANCES CONTROL ACT (TSCA):
This chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).
RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:
Consult Section 11 for RCRA classification.
FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311):
None of the ingredients are specifically listed.
CLEAN AIR ACT, 40 CFR 60, SECTION 111, 40 CFR 61, SECTION 112:
This product does not contain ingredients covered by the Clean Air Act.

Contents for this MSDS

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01 - PRODUCT IDENTIFICATION

PRODUCT NAME: HYDRAZINE, ANHYDROUS (95%)
FORMULA: NH2NH2
FORMULA WT: 32.05
CAS NO.: 302-01-2
NIOSH/RTECS NO.: MU7175000
COMMON SYNONYMS: HYDRAZINE; DIAMIDE; DIAMINE
PRODUCT CODES: N360

- STANDARD PHRASE

CHEMTREC # (800) 424-9300
NATIONAL RESPONSE CENTER # (800) 424-8802
J. T. BAKER INC.
222 RED SCHOOL LANE
PHILLIPSBURG, NJ 08865
24-HOUR EMERGENCY TELEPHONE -- (201) 859-2151

EFFECTIVE: 06/10/88
REVISION #03

PRECAUTIONARY LABELLING

BAKER SAF-T-DATA(*) SYSTEM

HEALTH	-	3	SEVERE (CANCER CAUSING)
FLAMMABILITY	-	3	SEVERE (FLAMMABLE)
REACTIVITY	-	3	SEVERE (EXPLOSIVE)
CONTACT	-	3	SEVERE (LIFE)

HAZARD RATINGS ARE 0 TO 4 (0 = NO HAZARD; 4 = EXTREME HAZARD).

LABORATORY PROTECTIVE EQUIPMENT

GOGGLES & SHIELD; LAB COAT & APRON; VENT HOOD; PROPER GLOVES; CLASS B EXTINGUISHER

PRECAUTIONARY LABEL STATEMENTS

POISON DANGER
CAUTION: CANCER HAZARD
MATERIAL MAY BE MUTAGENIC
FLAMMABLE - VAPOR MAY EXPLODE IN FIRE
CONTACT WITH OTHER MATERIALS MAY CAUSE FIRE - CAUSES BURNS
HARMFUL IF SWALLOWED, INHALED, OR ABSORBED THROUGH SKIN
EXCEPTIONAL HEALTH AND CONTACT HAZARDS - READ MATERIAL SAFETY DATA SHEET
KEEP AWAY FROM HEAT, SPARKS, FLAME. DO NOT GET IN EYES, ON SKIN, ON CLOTHING. DO NOT BREATHE VAPOR. KEEP IN TIGHTLY CLOSED CONTAINER IN COOL AREA AWAY FROM DIRECT SUNLIGHT. USE WITH ADEQUATE VENTILATION. WASH THOROUGHLY AFTER HANDLING. IN CASE OF FIRE, USE WATER SPRAY, ALCOHOL FOAM, DRY CHEMICAL, CARBON DIOXIDE. IN CASE OF SPILL, SOAK UP WITH SAND OR EARTH. DO NOT USE WATER.

SAF-T-DATA(*) STORAGE COLOR CODE: RED STRIPE (STORE SEPARATELY)

02 - HAZARDOUS COMPONENTS

COMPONENT	%	CAS NO.
HYDRAZINE	95-100	302-01-2

03 - PHYSICAL DATA

BOILING POINT:	113 C (235 F)	VAPOR PRESSURE(MM HG):	10
MELTING POINT:	2 C (36 F)	VAPOR DENSITY(AIR=1):	1.1
SPECIFIC GRAVITY (H2O=1)	1.01	EVAPORATION RATE: (BUTYL ACETATE=1)	N/A

SOLUBILITY(H2O): COMPLETE (IN ALL PROPORTIONS) % VOLATILES BY VOLUME: 100

APPEARANCE & ODOR: CLEAR, COLORLESS, FUMING LIQUID. AMMONIA-LIKE ODOR.

04 - FIRE AND EXPLOSION HAZARD DATA

FLASH POINT (OPEN CUP 38 C (100 F) NFPA 704M RATING: 3-3-2

FLAMMABLE LIMITS: UPPER - 100 % LOWER - 4.7 %

FIRE EXTINGUISHING MEDIA
USE WATER SPRAY, CARBON DIOXIDE, DRY CHEMICAL OR ORDINARY FOAM.

SPECIAL FIRE-FIGHTING PROCEDURES
FIREFIGHTERS SHOULD WEAR PROPER PROTECTIVE EQUIPMENT AND SELF-CONTAINED

BREATHING APPARATUS WITH FULL FACEPIECE OPERATED IN POSITIVE PRESSURE MODE.
MOVE CONTAINERS FROM FIRE AREA IF IT CAN BE DONE WITHOUT RISK. USE WATER
TO KEEP FIRE-EXPOSED CONTAINERS COOL.
FLUSH AREA WITH WATER UNTIL COOL SO REIGNITION WILL NOT OCCUR.

UNUSUAL FIRE & EXPLOSION HAZARDS
VAPORS MAY FLOW ALONG SURFACES TO DISTANT IGNITION SOURCES AND FLASH BACK.
CLOSED CONTAINERS EXPOSED TO HEAT MAY EXPLODE. CONTACT WITH STRONG
OXIDIZERS MAY CAUSE FIRE.
CAN BE AN EXPLOSION HAZARD, ESPECIALLY WHEN HEATED.

TOXIC GASES PRODUCED
NITROGEN OXIDES, AMMONIA, HYDROGEN GAS

****
| 05 - HEALTH HAZARD DATA |
****

THIS SUBSTANCE IS LISTED AS AN ACGIH SUSPECTED HUMAN CARCINOGEN, A NTP
ANTICIPATED HUMAN CARCINOGEN, AND AN IARC PROBABLE HUMAN CARCINOGEN
(GROUPS 2A AND 2B). SOME REPORTS HAVE INDICATED THAT THIS SUBSTANCE MAY
BE MUTAGENIC. TLV LISTED DENOTES (SKIN). THERE IS NO STEL VALUE
ESTABLISHED FOR THIS PRODUCT.

THRESHOLD LIMIT VALUE (TLV/TWA): 0.1 MG/M3 (0.1 PPM)

PERMISSIBLE EXPOSURE LIMIT (PEL): 1.3 MG/M3 (1 PPM)

TOXICITY:	LD50 (ORAL-RAT) (MG/KG)	- 60
	LD50 (IPR-RAT) (MG/KG)	- 59
	LD50 (SKIN-RABBIT) (MG/KG)	- 91
	LC50 (INHL-RAT-4H) (PPM)	- 570

CARCINOGENICITY: NTP: YES IARC: YES Z LIST: NO OSHA REG: NO

EFFECTS OF OVEREXPOSURE
INHALATION MAY CAUSE HEADACHE, NAUSEA, VOMITING, DIZZINESS, NARCOSIS,
SUFFOCATION, LOWER BLOOD PRESSURE, CENTRAL NERVOUS SYSTEM DEPRESSION.
INHALATION OF VAPORS MAY CAUSE SEVERE IRRITATION OR BURNS OF THE
RESPIRATORY SYSTEM, PULMONARY EDEMA, OR LUNG INFLAMMATION.
CONTACT WITH SKIN OR EYES MAY CAUSE SEVERE IRRITATION OR BURNS. PROLONGED
CONTACT MAY CAUSE SKIN SENSITIZATION. SUBSTANCE IS READILY ABSORBED
THROUGH THE SKIN.
INGESTION MAY CAUSE NAUSEA, VOMITING, HEADACHES, DIZZINESS,
GASTROINTESTINAL IRRITATION, CENTRAL NERVOUS SYSTEM DEPRESSION, AND
BURNS TO MOUTH AND THROAT.
CHRONIC EFFECTS OF OVEREXPOSURE MAY INCLUDE DAMAGE TO KIDNEYS, LIVER,
LUNGS, BLOOD, OR CENTRAL NERVOUS SYSTEM.

TARGET ORGANS
CENTRAL NERVOUS SYSTEM, RESPIRATORY SYSTEM, LUNGS, KIDNEYS, LIVER, BLOOD,
EYES, SKIN

MEDICAL CONDITIONS GENERALLY AGGRAVATED BY EXPOSURE
NONE IDENTIFIED

ROUTES OF ENTRY
INGESTION, INHALATION, ABSORPTION, EYE CONTACT, SKIN CONTACT

EMERGENCY AND FIRST AID PROCEDURES
CALL A PHYSICIAN.
IF SWALLOWED, DO NOT INDUCE VOMITING; IF CONSCIOUS, GIVE WATER, MILK, OR MILK OF MAGNESIA.
IF INHALED, REMOVE TO FRESH AIR. IF NOT BREATHING, GIVE ARTIFICIAL RESPIRATION. IF BREATHING IS DIFFICULT, GIVE OXYGEN.
IN CASE OF CONTACT, IMMEDIATELY FLUSH EYES OR SKIN WITH PLENTY OF WATER FOR AT LEAST 15 MINUTES WHILE REMOVING CONTAMINATED CLOTHING AND SHOES.
WASH CLOTHING BEFORE RE-USE.

FOR PRODUCTS SOLD IN THE STATE OF CALIFORNIA, THE STATE REQUIRES THAT WE PROVIDE TO USERS AND THEIR EMPLOYEES THE FOLLOWING MESSAGE:

WARNING: THIS PRODUCT IS A CHEMICAL KNOWN TO THE STATE OF CALIFORNIA TO CAUSE CANCER.

06 - REACTIVITY DATA

STABILITY: STABLE

HAZARDOUS POLYMERIZATION: WILL NOT OCCUR

CONDITIONS TO AVOID: HEAT, FLAME, OTHER SOURCES OF IGNITION, SUNLIGHT, LIGHT, SHOCK

INCOMPATIBLES: STRONG OXIDIZING AGENTS, STRONG ACIDS, NITRIC ACID, METAL OXIDES, MOST COMMON METALS, COPPER, ZINC, LEAD, COMBUSTIBLE MATERIALS, ORGANIC MATERIALS, POROUS MATERIALS; ESP. WOOD, ASBESTOS, SOIL, RUST

DECOMPOSITION PRODUCTS: OXIDES OF NITROGEN, AMMONIA, HYDROGEN

07 - SPILL AND DISPOSAL PROCEDURES

STEPS TO BE TAKEN IN THE EVENT OF A SPILL OR DISCHARGE
WEAR SELF-CONTAINED BREATHING APPARATUS AND FULL PROTECTIVE CLOTHING.
SHUT OFF IGNITION SOURCES; NO FLARES, SMOKING, OR FLAMES IN AREA.
FLUSH AREA WITH FLOODING AMOUNTS OF WATER. (USE CAUTION)
NEUTRALIZE WITH SODIUM HYPOCHLORITE SOLUTION.
TAKE UP WITH SAND OR OTHER NON-COMBUSTIBLE ABSORBENT MATERIAL AND PLACE INTO CONTAINER FOR LATER DISPOSAL; THEN FLUSH AREA WITH WATER.

J. T. BAKER SOLUSORB(R) SOLVENT ADSORBENT IS RECOMMENDED FOR SPILLS OF THIS PRODUCT.

DISPOSAL PROCEDURE
DISPOSE IN ACCORDANCE WITH ALL APPLICABLE FEDERAL, STATE, AND LOCAL

ENVIRONMENTAL REGULATIONS.

EPA HAZARDOUS WASTE NUMBER: U133 (TOXIC WASTE)

08 - PROTECTIVE EQUIPMENT

VENTILATION: USE GENERAL OR LOCAL EXHAUST VENTILATION TO MEET TLV REQUIREMENTS.

RESPIRATORY PROTECTION: A CHEMICAL CARTRIDGE RESPIRATOR WITH ORGANIC VAPOR CARTRIDGE IS RECOMMENDED. IF AIRBORNE CONCENTRATION EXCEEDS TLV, A SELF-CONTAINED BREATHING APPARATUS IS ADVISED.

EYE/SKIN PROTECTION: SAFETY GOGGLES AND FACE SHIELD, UNIFORM, PROTECTIVE SUIT, BUTYL RUBBER GLOVES ARE RECOMMENDED.

09 - STORAGE AND HANDLING PRECAUTIONS

SAF-T-DATA(*) STORAGE COLOR CODE: RED STRIPE (STORE SEPARATELY)

SPECIAL PRECAUTIONS

BOND AND GROUND CONTAINERS WHEN TRANSFERRING LIQUID. KEEP CONTAINER TIGHTLY CLOSED. STORE IN A COOL, DRY, WELL-VENTILATED, FLAMMABLE LIQUID STORAGE AREA.
ISOLATE FROM INCOMPATIBLE MATERIALS.
STORE IN LIGHT-RESISTANT CONTAINERS.
KEEP PRODUCT OUT OF LIGHT.
STORE UNDER NITROGEN.

10 - TRANSPORTATION DATA AND ADDITIONAL INFORMATION

DOMESTIC (D.O.T.)

PROPER SHIPPING NAME	HYDRAZINE, ANHYDROUS
HAZARD CLASS	FLAMMABLE LIQUID
UN/NA	UN2029
LABELS	FLAMMABLE LIQUID, POISON
REPORTABLE QUANTITY	1 LBS.

INTERNATIONAL (I.M.O.)

PROPER SHIPPING NAME	HYDRAZINE, ANHYDROUS
HAZARD CLASS	3.3, 6.1
UN/NA	UN2029
LABELS	FLAMMABLE LIQUID, POISON, CORROSIVE

(*) AND (R) DESIGNATE TRADEMARKS.

N/A = NOT APPLICABLE OR NOT AVAILABLE

- STANDARD PHRASE
THE INFORMATION PUBLISHED IN THIS MATERIAL SAFETY DATA SHEET HAS BEEN COMPILED FROM OUR EXPERIENCE AND DATA PRESENTED IN VARIOUS TECHNICAL PUBLICATIONS. IT IS THE USER'S RESPONSIBILITY TO DETERMINE THE SUITABILITY OF THIS INFORMATION FOR THE ADOPTION OF NECESSARY SAFETY PRECAUTIONS. WE RESERVE THE RIGHT TO REVISE MATERIAL SAFETY DATA SHEETS PERIODICALLY AS NEW INFORMATION BECOMES AVAILABLE. J.T.BAKER INC. MAKES NO WARRANTY OR REPRESENTATION ABOUT THE ACCURACY OR COMPLETENESS NOR FITNESS FOR PURPOSE OF THE INFORMATION CONTAINED HEREIN.

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MATERIAL SAFETY DATA SHEET

CORPORATE RESEARCH & DEVELOPMENT

SCHENECTADY, N. Y. 12305

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MATERIALS INFORMATION SERVICES

No. 68

CALCIUM HYPOCHLORITE (Dry)

Date July 1980

SECTION I. MATERIAL IDENTIFICATION

MATERIAL NAME: CALCIUM HYPOCHLORITE (Dry)
OTHER DESIGNATIONS: Calcium Oxychloride, $Ca(OCl)_2$, CAS #007 778 543, HTH (Trade name)
MANUFACTURER: Available from several sources, including:

Canadian Industries Limited
Chemicals
Box 10
Montreal, Quebec, Canada H3C 2R3

Olin Corporation
120 Long Ridge Road
Stamford, CT 06904
Phone: (203) 356-2345

SECTION II. INGREDIENTS AND HAZARDS	%	HAZARD DATA
Calcium Hypochlorite	*	No TLV Established
*Concentration usually stated in terms of weight % of available chlorine. (See ASTM D2022) HTH (high-test hypochlorite) contains about 70% available chlorine. Solid materials with less than 39% available chlorine include chloride of lime and bleaching powder; these contain much chloride ion and water and possibly other impurities, for example: $Ca(OCl)Cl \cdot 2H_2O$. The presence of magnesium hypochlorite in material of high available chlorine level may reduce its stability.		Rat, Oral LD_{50} 850 mg/kg

SECTION III. PHYSICAL DATA

Boiling point, deg C	N/A	Specific gravity	2.35
Vapor pressure, mm Hg	N/A	Melting point, deg C	decomposes @ 100
Solubility in water, 20 C, % by wt	14	Molecular weight	142.98

Appearance and Odor: White non-hygroscopic granules or tablets having a strong chlorine odor.

SECTION IV. FIRE AND EXPLOSION DATA

Flash Point and Method	Autoignition Temp.	Flammability Limits In Air	LOWER	UPPER
N/A	N/A	N/A		

Use a water spray to cool fire-exposed containers of this material and drench area with large amounts of water from a safe position. When containers are heated in a fire situation, they are subject to violent rupture! Contamination or mixing with foreign materials (combustibles, grease, chemicals, etc.) can cause fires of great intensity.

Firefighters need to use self-contained breathing apparatus and full protective clothing for fires involving this material, especially in enclosed areas.

SECTION V. REACTIVITY DATA

Calcium hypochlorite is stable at room temperature in suitable closed containers when kept dry and free from contamination. It does not polymerize.

It is a powerful oxidizing agent which can readily ignite combustibles. Violent reactions or explosions can occur, for example with amines, carbon tetrachloride, charcoal, ethyl alcohol, metal oxides, mercaptans, organic sulfides, sulfur, turpentine, and strong reducing agents. A mixture with glycerine can ignite spontaneously. Material containing over 60% available chlorine will ignite on contact with lubricating oil (addition of about 20% or more of water will prevent this).

In the absence of combustibles and other chemicals, when heated above 100 C, it can undergo exothermic decomposition, evolving oxygen. On contact with acids it forms hypochlorous acid and liberates Cl2.

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NO. 68

SECTION VI. HEALTH HAZARD INFORMATION

TLV None Established

All tissue contacted can be irritated and/or damaged by this strong oxidizing agent, the degree of injury depending on the dose, available chlorine level, and exposure time. Skin contact can produce vesicular eruptions and eczematoid dermatitis. Eye contact can result in severe eye damage. Inhalation of dust irritates the respiratory tract and may cause pulmonary edema. Ingestion irritates mouth, throat and stomach, and gastric acid will liberate hypochlorous acid. Fatalities can result from severe complications of local injury, shock, toxemia, hemorrhage, wall perforation & obstruction.

FIRST AID:

Eye Contact: Immediately flush with lots of running water for 15 minutes. Call physician.

Skin Contact: Immediately remove contaminated clothing. Flush affected area with water. Get medical help if contact area was large or if symptoms persist.

Inhalation: Remove to fresh air. Support breathing if needed. Get medical help.

Ingestion: Promptly rinse mouth with water and then give large amounts of milk or water to drink, followed by milk of magnesia. Contact physician or hospital. Do not induce vomiting unless instructed by physician.

SECTION VII. SPILL, LEAK, AND DISPOSAL PROCEDURES

Notify safety personnel of spills. Remove combustibles and ignition sources. Those involved in clean up need protection against contact with solid or inhalation of dust. Prevent generation of dust. Prevent direct discharge into sewers or waterways.

Recover uncontaminated solid material in clean, dry containers. Other spilled material is covered with weak reducing agent, slurried with water, and then flushed with water to a suitable holding tank. Wash spill site well with soap solution containing a weak reducing agent.

DISPOSAL: Use reducing agents to destroy "available chlorine." Adjust pH of reduced liquid to neutral and decant. Discharge neutral liquid, diluting with much water. Dispose of neutral sludge (if any) in a landfill. Follow Federal, State, and Local regulations. (Contact supplier for detailed procedures.)

SECTION VIII. SPECIAL PROTECTION INFORMATION

Suppliers indicate no ventilation requirements in handling this material, but do suggest a dust mask be used for respiratory protection.

It is recommended that sufficient ventilation be provided to prevent any irritation from dust inhalation and to disperse any hypochlorite decomposition products. An approved respirator with a dust filter and cartridge or canister for chlorine absorption should be available.

Use neoprene rubber gloves, chemical goggles, and protective outer wear to prevent contact with the eyes, skin or clothing.

Eyewash stations, safety showers and washing facilities should be available to handling and use areas.

SECTION IX. SPECIAL PRECAUTIONS AND COMMENTS

Store in closed containers in a cool, dry, well-ventilated low fire-risk area, away from combustible and incompatible materials (see Sect. V). Prevent contamination of material. Protect containers from physical damage. Do not drop, roll, or skid containers.

This material is a powerful oxidizing agent; use with caution! Mix only with water.

Water solutions are not stable, but undergo a slow decomposition.

Prevent contact with eyes, skin, mucous membranes, and clothing. Do not ingest.'

DOT Classification (for over 39% available chlorine) - OXIDIZER

DATA SOURCE(S) CODE: 1,4-11,20,25,26,34

Judgments as to the suitability of information herein for purchaser's purposes are necessarily purchaser's responsibility. Therefore, although reasonable care has been taken in the preparation of such information, General Electric Company extends no warranties, makes no representations and assumes no responsibility as to the accuracy or suitability of such information for application to purchaser's intended purposes or for consequences of its use.

APPROVALS: MIS CRD J.M. Nielsen

Industrial Hygiene and Safety J.W. 7-25-80

MEDICAL REVIEW: 5 August 1980

GENERAL ELECTRIC

****
This is an MSDS from the Commonwealth Edison MSDS Program

ATTENTION: Safety and Industrial Hygiene advises users to review the intended use of this information with his/her supervisor or Safety and Industrial Hygiene advisor.

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01 - GENERAL INFORMATION

CE002125
NALCO
PRODUCT: NALCOLYTE 8103 COAGULANT
EMERGENCY TELEPHONE NUMBER: MEDICAL (312) 920-1510 (24 HOURS)
NALCO CHEMICAL COMPANY
ONE NALCO CENTER
NAPERVILLE, ILLINOIS 60566-1024
AREA 312-961-9500
PREPARED BY: JOHN J. KASPER, MSC., MANAGER PRODUCT SAFETY
DATE CHANGED: 01/25/88
DATE PRINTED: 02/03/88

02 - SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: NALCOLYTE 8103 COAGULANT
DESCRIPTION: AN AQUEOUS SOLUTION OF A POLYQUATERNARY AMINE

NFPA 704M RATING:
0 HEALTH
1 FLAMMABILITY
0 REACTIVITY
0 OTHER
0 = INSIGNIFICANT
1 = SLIGHT
2 = MODERATE
3 = HIGH
4 = EXTREME

****
| 03 - SECTION 2 HAZARDOUS INGREDIENTS |
****

OUR HAZARD EVALUATION OF THE INGREDIENT(S) UNDER OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200 HAS FOUND NONE OF THE INGREDIENT(S) HAZARDOUS.

****
| 04 - SECTION 3 PRECAUTIONARY LABEL INFORMATION |
****

CAUTION: MAY CAUSE IRRITATION TO SKIN AND EYES. AVOID CONTACT WITH SKIN, EYES AND CLOTHING. DO NOT TAKE INTERNALLY.
EMPTY CONTAINERS MAY CONTAIN RESIDUAL PRODUCT. DO NOT REUSE CONTAINER UNLESS PROPERLY RECONDITIONED.

****
| 05 - SECTION 4 FIRST AID INFORMATION |
****

EYES: FLUSH WITH WATER FOR 15 MINUTES. CALL A PHYSICIAN.
SKIN: FLUSH WITH WATER FOR 15 MINUTES.
INGESTION: DO NOT INDUCE VOMITING. GIVE WATER. CALL A PHYSICIAN.
NOTE TO PHYSICIAN: NO SPECIFIC ANTIDOTE IS KNOWN. BASED ON THE INDIVIDUAL REACTIONS OF THE PATIENT, THE PHYSICIAN'S JUDGMENT SHOULD BE USED TO CONTROL SYMPTOMS AND CLINICAL CONDITION.
CAUTION: IF UNCONSCIOUS, HAVING TROUBLE BREATHING OR IN CONVULSIONS, DO NOT INDUCE VOMITING OR GIVE WATER.

****
| 06 - SECTION 5 HEALTH EFFECTS INFORMATION |
****

PRIMARY ROUTE(S) OF EXPOSURE: EYE, SKIN
EYE CONTACT: NON-IRRITATING.
SKIN CONTACT: CAN CAUSE TRANSIENT IRRITATION.
SYMPTOMS OF EXPOSURE: A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY SYMPTOMS FROM EXPOSURE.
AGGRAVATION OF EXISTING CONDITIONS: A REVIEW OF AVAILABLE DATA DOES NOT IDENTIFY ANY WORSENING OF EXISTING CONDITIONS.

****
| 07 - SECTION 6 TOXICOLOGY INFORMATION |

****

ACUTE TOXICITY STUDIES: ACUTE TOXICITY STUDIES HAVE BEEN CONDUCTED ON THIS PRODUCT. THE RESULTS ARE SHOWN BELOW.
ACUTE ORAL TOXICITY (ALBINO RATS): LD50 = 4,699 MG/KG
95% CONFIDENCE LIMIT = 3,772 - 5,854 MG/KG
ACUTE DERMAL TOXICITY (ALBINO RABBITS): LD50 = GREATER THAN 2,000 MG/KG
PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):
SKIN IRRITATION INDEX DRAIZE RATING: 0.84/8.0 MILDLY IRRITATING
PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):
EYE IRRITATION INDEX DRAIZE RATING: 1.0/110.0 PRACTICALLY NON-IRRITATING

****
| 08 - SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES |
****

COLOR: CLEAR LIGHT YELLOW
FORM: LIQUID
ODOR: ODORLESS
DENSITY: 9.1 LBS/GAL.
SOLUBILITY IN WATER: COMPLETELY
SPECIFIC GRAVITY: 1.09 @ 60 DEGREES F ASTM D-1298
PH (NEAT): 4.5 ASTM E-70
FREEZE POINT: 14 DEGREES F ASTM D-1177
FLASH POINT: 200 DEGREES F (PMCC) ASTM D-93
NOTE: THESE PHYSICAL PROPERTIES ARE TYPICAL VALUES FOR THIS PRODUCT.

****
| 09 - SECTION 8 FIRE AND EXPLOSION INFORMATION |
****

FLASH POINT: 200 DEGREES F (PMCC) ASTM D-93
EXTINGUISHING MEDIA: THIS PRODUCT WOULD NOT BE EXPECTED TO BURN UNLESS ALL THE WATER IS BOILED AWAY. THE REMAINING ORGANICS MAY BE IGNITABLE. USE WATER TO COOL CONTAINERS EXPOSED TO FIRE.
UNUSUAL FIRE AND EXPLOSION HAZARD: MAY EVOLVE NOX UNDER FIRE CONDITIONS.

****
| 10 - SECTION 9 REACTIVITY INFORMATION |
****

INCOMPATIBILITY: AVOID ALKALINE MATERIALS (EG. AMMONIA AND ITS SOLUTIONS, CARBONATES, SODIUM HYDROXIDE (CAUSTIC), POTASSIUM HYDROXIDE, CALCIUM HYDROXIDE (LIME), CYANIDES, SULFIDES, HYPOCHLORITES, CHLORITES) WHICH CAN GENERATE HEAT WITH SPLATTERING OR BOILING AND THE RELEASE OF TOXIC FUMES.
THERMAL DECOMPOSITION PRODUCTS: IN THE EVENT OF COMBUSTION CO, CO2, NOX MAY BE FORMED. DO NOT BREATHE SMOKE OR FUMES. WEAR SUITABLE PROTECTIVE EQUIPMENT.

****
| 11 - SECTION 10 PERSONAL PROTECTION EQUIPMENT |
****

RESPIRATORY PROTECTION: RESPIRATORY PROTECTION IS NOT NORMALLY NEEDED SINCE THE VOLATILITY AND TOXICITY ARE LOW. IF SIGNIFICANT VAPORS, MISTS

OR AEROSOLS ARE GENERATED, WEAR A NIOSH APPROVED OR EQUIVALENT RESPIRATOR, (ANSI Z 88.2, 1980 FOR REQUIREMENTS AND SELECTION).
FOR LARGE SPILLS, ENTRY INTO LARGE TANKS, VESSELS OR ENCLOSED SMALL SPACES WITH INADEQUATE VENTILATION, A PRESSURE-DEMAND, SELF-CONTAINED BREATHING APPARATUS IS RECOMMENDED.
VENTILATION: GENERAL VENTILATION IS RECOMMENDED.
PROTECTIVE EQUIPMENT: USE IMPERMEABLE GLOVES AND CHEMICAL SPLASH GOGGLES (ANSI Z 87.1 REQUIREMENTS AND SELECTION OF GLOVES, GOGGLES, SHOES, ETC.) WHEN ATTACHING FEEDING EQUIPMENT OR DOING MAINTENANCE.
IF CLOTHING IS CONTAMINATED, REMOVE CLOTHING AND THOROUGHLY WASH THE AFFECTED AREA. LAUNDER CONTAMINATED CLOTHING BEFORE REUSE.

12 - SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER: (312-920-1510)
SPILL CONTROL AND RECOVERY:
SMALL LIQUID SPILLS: CONTAIN WITH ABSORBENT MATERIAL, SUCH AS CLAY, SOIL OR ANY COMMERCIALLY AVAILABLE ABSORBENT. SHOVEL RECLAIMED LIQUID AND ABSORBENT INTO RECOVERY OR SALVAGE DRUMS FOR DISPOSAL. REFER TO CERCLA IN SECTION 14.
LARGE LIQUID SPILLS: DIKE TO PREVENT FURTHER MOVEMENT AND RECLAIM INTO RECOVERY OR SALVAGE DRUMS OR TANK TRUCK FOR DISPOSAL. REFER TO CERCLA IN SECTION 14.
THIS PRODUCT IS TOXIC TO FISH. IT SHOULD NOT BE DIRECTLY DISCHARGED INTO LAKES, PONDS, STREAMS, WATERWAYS OR PUBLIC WATER SUPPLIES.
DISPOSAL: IF THIS PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE AS DEFINED UNDER THE RESOURCE CONSERVATION AND RECOVERY ACT (RCRA) 40 CFR 261, SINCE IT DOES NOT HAVE THE CHARACTERISTICS OF SUBPART C, (I.E. D001 THROUGH D017) NOR IS IT LISTED UNDER SUBPART D.
AS A NON-HAZARDOUS LIQUID WASTE, IT SHOULD BE SOLIDIFIED BEFORE DISPOSAL TO A SANITARY LANDFILL. CAN BE INCINERATED IN ACCORDANCE WITH LOCAL, STATE AND FEDERAL REGULATIONS.

13 - SECTION 12 ENVIRONMENTAL INFORMATION

AQUATIC DATA:
96 HOUR STATIC ACUTE LC50 TO BLUEGILL SUNFISH = 0.90 PPM
72 HOUR STATIC ACUTE LC50 TO BLUEGILL SUNFISH = 0.90 PPM
48 HOUR STATIC ACUTE LC50 TO BLUEGILL SUNFISH = 1.0 PPM
24 HOUR STATIC ACUTE LC50 TO BLUEGILL SUNFISH = 1.6 PPM
95% CONFIDENCE LIMIT OF 96 HOUR LC50 = 0.8 - 1.1 PPM
96 HOUR NO OBSERVED EFFECT CONCENTRATION IS 0.56 PPM BASED ON NO MORTALITY OR ABNORMAL EFFECTS.
96 HOUR STATIC ACUTE LC50 TO RAINBOW TROUT = 0.47 PPM
72 HOUR STATIC ACUTE LC50 TO RAINBOW TROUT = 0.50 PPM
48 HOUR STATIC ACUTE LC50 TO RAINBOW TROUT = 0.56 PPM
24 HOUR STATIC ACUTE LC50 TO RAINBOW TROUT = 0.79 PPM
95% CONFIDENCE LIMIT OF 96 HOUR LC50 = 0.41 - 5.5 PPM
96 HOUR NO OBSERVED EFFECT CONCENTRATION IS 0.18 PPM BASED ON NO

MORTALITY OR ABNORMAL EFFECTS.
96 HOUR STATIC ACUTE LC50 TO SHEEPSHEAD MINNOW = GREATER THAN 1000 PPM
48 HOUR STATIC ACUTE LC50 TO SHEEPSHEAD MINNOW = GREATER THAN 1000 PPM
24 HOUR STATIC ACUTE LC50 TO SHEEPSHEAD MINNOW = GREATER THAN 1000 PPM
96 HOUR NO OBSERVED EFFECT CONCENTRATION IS 100 PPM BASED ON NO MORTALITY OR ABNORMAL EFFECTS.
IF RELEASED INTO THE ENVIRONMENT, SEE CERCLA IN SECTION 14.

14 - SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE: PRODUCT IS NOT REGULATED DURING TRANSPORTATION

15 - SECTION 14 REGULATORY INFORMATION

THE FOLLOWING REGULATIONS APPLY TO THIS PRODUCT.
FEDERAL REGULATIONS:
OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200: BASED ON OUR HAZARD EVALUATION, THIS PRODUCT IS NOT HAZARDOUS.
CERCLA, 40 CFR 117, 302: NOTIFICATION OF SPILLS OF THIS PRODUCT IS NOT REQUIRED.
SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:
SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355): THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED IN APPENDIX A AND B AS AN EXTREMELY HAZARDOUS SUBSTANCE.
SECTIONS 311 AND 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370): OUR HAZARD EVALUATION HAS FOUND THAT THIS PRODUCT IS NOT HAZARDOUS UNDER 29 CFR 1910.1200.
UNDER SECTION 311, SUBMITTAL OF MSDS'S OR A LIST OF PRODUCT NAMES TO THE LOCAL EMERGENCY PLANNING COMMISSION, STATE EMERGENCY RESPONSE COMMISSION AND LOCAL FIRE DEPARTMENT IS REQUIRED AFTER OCTOBER 17, 1987 IF YOU HAVE: - 10,000 POUNDS OR MORE OF A HAZARDOUS SUBSTANCE, OR
- 500 POUNDS OR THE THRESHOLD PLANNING QUANTITY, WHICHEVER IS LESS, OF AN EXTREMELY HAZARDOUS SUBSTANCE.
AFTER OCTOBER 17, 1989, MSDS(S), OR A LIST OF PRODUCT NAMES FOR ALL HAZARDOUS SUBSTANCES BETWEEN ZERO (0) AND 10,000 POUNDS, NOT PREVIOUSLY REPORTED, MUST BE SUBMITTED.
SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372): THIS PRODUCT DOES NOT CONTAIN INGREDIENTS (AT A LEVEL OF 1% OR GREATER) ON THE LIST OF TOXIC CHEMICALS.
TOXIC SUBSTANCES CONTROL ACT (TSCA): THE CHEMICAL INGREDIENTS IN THIS PRODUCT ARE ON THE 8(B) INVENTORY LIST (40 CFR 710).
U.S. EPA - OFFICE OF DRINKING WATER - ADDITIVES EVALUATION BRANCH: THE USEPA HAS APPROVED THIS PRODUCT FOR USE AS A COAGULATION AID IN THE TREATMENT OF POTABLE WATER. THE MAXIMUM RECOMMENDED PRODUCT DOSAGE LIMIT IS 50 PPM.
RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D: IF THIS PRODUCT BECOMES A WASTE, IT DOES NOT MEET THE CRITERIA OF A HAZARDOUS WASTE.
FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15

(FORMERLY SEC. 307), 40 CFR 116 (FORMERLY SEC. 311): NONE OF THE INGREDIENTS ARE SPECIFICALLY LISTED.
CLEAN AIR ACT, 40 CFR 60, SECTION 111, 40 CFR 61, SECTION 112: THIS PRODUCT DOES NOT CONTAIN INGREDIENTS COVERED BY THE CLEAN AIR ACT.
STATE REGULATIONS:
CALIFORNIA PROPOSITION 65: THIS PRODUCT COMPLIES WITH THE MSDS AND LABELING REQUIREMENTS OF THE SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT OF 1986 (PROPOSITION 65).
MICHIGAN CRITICAL MATERIALS: THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED ON THE MICHIGAN CRITICAL MATERIALS REGISTER.
STATE RIGHT TO KNOW LAWS: THIS PRODUCT DOES NOT CONTAIN INGREDIENTS LISTED BY STATE RIGHT TO KNOW LAWS.

****
| 16 - SECTION 15 ADDITIONAL INFORMATION |
****

NONE
HEADING: SECTION 16 USER'S RESPONSIBILITY
THIS PRODUCT MATERIAL SAFETY DATA SHEET PROVIDES HEALTH AND SAFETY INFORMATION. THE PRODUCT IS TO BE USED IN APPLICATIONS CONSISTENT WITH OUR PRODUCT LITERATURE. INDIVIDUALS HANDLING THIS PRODUCT SHOULD BE INFORMED OF THE RECOMMENDED SAFETY PRECAUTIONS AND SHOULD HAVE ACCESS TO THIS INFORMATION. FOR ANY OTHER USES, EXPOSURES SHOULD BE EVALUATED SO THAT APPROPRIATE HANDLING PRACTICES AND TRAINING PROGRAMS CAN BE ESTABLISHED TO ENSURE SAFE WORKPLACE OPERATIONS. PLEASE CONSULT YOUR LOCAL SALES REPRESENTATIVE FOR ANY FURTHER INFORMATION.
HEADING: SECTION 17 BIBLIOGRAPHY
ANNUAL REPORT ON CARCINOGENS, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, PUBLIC HEALTH SERVICE, PB 33-135855, 1983.
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PATTY'S INDUSTRIAL HYGIENE AND TOXICOLOGY, CLAYTON, G. D., CLAYTON, F. E., EDS., JOHN WILEY AND SONS, N. Y., 3RD EDITION, VOL. 2 A-C, 1981.
REGISTRY OF TOXIC EFFECTS ON CHEMICAL SUBSTANCES, U.S. DEPARTMENT OF HEALTH AND HUMAN SERVICES, PUBLIC HEALTH SERVICE, CENTER FOR DISEASE CONTROL, NATIONAL INSTITUTE FOR OCCUPATIONAL SAFETY AND HEALTH, 1983 SUPPLEMENT OF 1981-1982 EDITION, VOL. 1-3, OH, 1984.
TITLE 29 CODE OF FEDERAL REGULATIONS PART 1910, SUBPART Z, TOXIC AND HAZARDOUS SUBSTANCES, OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION (OSHA).
THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS IN THE WORKROOM ENVIRONMENT WITH INTENDED CHANGES, AMERICAN CONFERENCE OF GOVERNMENTAL INDUSTRIAL HYGIENISTS, OH.

NALCO

MATERIAL SAFETY DATA SHEET

PRODUCT

NALCO 92UM001 LIQUID

Emergency Telephone Number

Medical (708) 920-1510 (24 hours)

SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: NALCO 92UM001 LIQUID
DESCRIPTION: An organic amine

NFPA 704M/HMIS RATING: 3/3 HEALTH 1/1 FLAMMABILITY 0/0 REACTIVITY 0 OTHER
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

SECTION 2 HAZARDOUS INGREDIENTS

Our hazard evaluation has identified the following chemical ingredient(s) as hazardous under OSHA's Hazard Communication Rule, 29 CFR 1910.1200. Consult Section 14 for the nature of the hazard(s).

INGREDIENT(S)	CAS #	APPROX.%
Monoethanolamine	141-43-5	20-40

SECTION 3 PRECAUTIONARY LABEL INFORMATION

WARNING: Causes burns to skin and eyes. Do not get in eyes, on skin, or on clothing. Wear goggles and face shield when handling. Avoid prolonged or repeated breathing of vapor. Use with adequate ventilation. Do not take internally.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

SECTION 4 FIRST AID INFORMATION

EYES:	Immediately flush for at least 15 minutes while holding eyelids open. Call a physician at once.
SKIN:	Immediately flush with water for at least 15 minutes. For a large splash, flood body under a shower. Call a physician at once.
INGESTION:	Do not induce vomiting. Give water. Call a physician at once.
INHALATION:	Remove to fresh air. Treat symptoms. Call a physician at once.

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

SECTION 4 FIRST AID INFORMATION (CONTINUED)

NOTE TO PHYSICIAN: Probable mucosal damage may contraindicate the use of gastric lavage. Measures against circulatory shock, respiratory depression and convulsions may be needed.

SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin

EYE CONTACT: Corrosive to the eyes with possible permanent damage depending on the length of exposure and on the first aid action given.

SKIN CONTACT: Corrosive to the skin with possible permanent damage depending on the length of exposure and on the first aid action given.

SYMPTOMS OF EXPOSURE: A review of available data does not identify any symptoms from exposure not previously mentioned.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not identify any worsening of existing conditions.

SECTION 6 TOXICOLOGY INFORMATION

TOXICITY STUDIES: Toxicity studies have not been conducted on this product, but toxicity studies of the ingredient(s) in Section 2 have been reviewed. The results are shown below.

ACUTE ORAL TOXICITY (ALBINO RATS):
Monoethanolamine LD50 = 2.1 - 2.7 g/kg

ACUTE DERMAL TOXICITY (ALBINO RABBITS):
Monoethanolamine LD50 = Greater than 2 g/kg

ACUTE INHALATION TOXICITY (DOGS):
Monoethanolamine LC50 = Greater than 2 ppm (7-hour exposure)

PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS): Monoethanolamine
SKIN IRRITATION INDEX DRAIZE RATING: 8.0/8.0 Corrosive

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS): Monoethanolamine
EYE IRRITATION INDEX DRAIZE RATING: 110.0/110.0 Corrosive

SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Colorless	FORM: Liquid	ODOR:	Slight ammonia
DENSITY:	8.5 lbs/gal.		
SOLUBILITY IN WATER:	Dispersible		
SPECIFIC GRAVITY:	1.02 @ 77 Degrees F		ASTM D-1298
pH (NEAT) =	12.6		ASTM E-70
VISCOSITY:	5 cps @ 71 Degrees F		ASTM D-2983
FLASH POINT:	Greater than 200 Degrees F (PMCC)		ASTM D-93

NOTE: These physical properties are typical values for this product.

SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: Greater than 200 Degrees F (PMCC) ASTM D-93

EXTINGUISHING MEDIA: Based on the NFPA guide, use dry chemical, foam, carbon dioxide or other extinguishing agent suitable for Class B fires. Use water to cool containers exposed to fire. For large fires, use water spray or fog, thoroughly drenching the burning material.

UNUSUAL FIRE AND EXPLOSION HAZARD: May evolve NOx under fire conditions. This product should not be heated above 140 degrees F when in contact with aluminum due to potential release of flammable hydrogen gas.

SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY: N-nitrosamines, many are cancer causing agents to laboratory animals, may be formed when certain amines are mixed with nitrous acid, organic or inorganic nitrites or atmospheres with high nitrous oxide concentrations.

Avoid contact with strong acids (eg. sulfuric, phosphoric, nitric, hydrochloric, chromic, sulfonic) which can generate heat, splattering or boiling and the release of toxic fumes.

STORAGE: Do not store in aluminum. Will chemically react releasing flammable hydrogen gas.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion CO, CO2, NOx may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: Use either a chemical cartridge respirator with a dust/mist prefilter or supplied air.

SECTION 10 PERSONAL PROTECTION EQUIPMENT (CONTINUED)

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

VENTILATION: General ventilation is recommended.

PROTECTIVE EQUIPMENT: Wear impermeable gloves, boots, apron and a face shield with chemical splash goggles. Examples of impermeable gloves available on the market are neoprene, nitrile, PVC, natural rubber, viton and butyl (compatibility studies have not been performed). A full slicker suit is recommended if gross exposure is possible.

The availability of an eye wash fountain and safety shower is recommended.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (708-920-1510)

SPILL CONTROL AND RECOVERY:

Small liquid spills: Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 14.

Large liquid spills: Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 14.

For large indoor spills, evacuate employees and ventilate area. Those responsible for control and recovery should wear the protective equipment specified in Section 10.

DISPOSAL: If this product becomes a waste, it meets the criteria of a hazardous waste as defined under the Resources Conservation and Recovery Act (RCRA) 40 CFR 261. Hazardous Waste D002.

As a hazardous liquid waste, it must be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to a licensed industrial waste landfill (Hazardous Waste Treatment, Storage and Disposal facility). A hazardous liquid waste can also be incinerated in accordance with local, state, and federal regulations.

SECTION 12 ENVIRONMENTAL INFORMATION

If released into the environment, see CERCLA in Section 14.

SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - ETHANOLAMINE SOLUTIONS
8, UN 2491, III

SECTION 14 REGULATORY INFORMATION

The following regulations apply to this product.

FEDERAL REGULATIONS:

OSHA HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:
Based on our hazard evaluation, the following ingredient in this product is hazardous and the reason is shown below.

Monoethanolamine - Corrosive

Monoethanolamine = TWA 3 ppm, STEL 6 ppm ACGIH/TLV
8 mg/m3, 15 mg/m3 ACGIH/TLV

Monoethanolamine = TWA 3 ppm, STEL 6 ppm OSHA/PEL
8 mg/m3, 15 mg/m3 OSHA/PEL

CERCLA/SUPERFUND, 40 CFR 117, 302:
Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986
(TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):
This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 and 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS
(40 CFR 370):
Our hazard evaluation has found this product to be hazardous. The product should be reported under the following EPA hazard categories:

XX Immediate (acute) health hazard
— Delayed (chronic) health hazard
XX Fire hazard
— Sudden release of pressure hazard

SECTION 14 REGULATORY INFORMATION (CONTINUED)

— Reactive hazard

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):
This product does not contain ingredients on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA):
The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:
Consult Section 11 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15/ formerly Sec. 307, 40 CFR 116/formerly Sec. 311:
None of the ingredients are specifically listed.

Clean Air Act, Sec. 111 (40 CFR 60), Sec. 112 (40 CFR 61, 1990 Amendments):
This product contains the following ingredients covered by the Clean Air Act:

Monoethanolamine - Section 111

STATE REGULATIONS:

CALIFORNIA PROPOSITION 65:
This product does not contain any chemicals which require warning under California Proposition 65.

MICHIGAN CRITICAL MATERIALS:
This product does not contain ingredients listed on the Michigan Critical Materials Register.

STATE RIGHT TO KNOW LAWS:
Regulated in those states using the TLV for monoethanolamine as a criteria for listing.

INTERNATIONAL REGULATIONS:

This is a WHMIS controlled product under The House of Commons of Canada Bill C-70 (Class E). The product contains the following substance(s), from the Ingredient Disclosure List or has been evaluated based on its toxicological properties, to contain the following hazardous ingredient(s):

Chemical Name	CAS #	% Concentration Range

SECTION 14 REGULATORY INFORMATION (CONTINUED)

Monoethanolamine	141-43-5	20-40

SECTION 15 ADDITIONAL INFORMATION

None

SECTION 16 USER'S RESPONSIBILITY

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

SECTION 17 BIBLIOGRAPHY

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REGISTRY OF TOXIC EFFECTS ON CHEMICAL SUBSTANCES, U.S. Department of Health and Human Services, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, 1983 supplement of 1981-1982 edition, Vol. 1-3, OH, 1984.

SECTION 17 BIBLIOGRAPHY (CONTINUED)

Title 29 Code of Federal Regulations Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA).

THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS IN THE WORKROOM ENVIRONMENT WITH INTENDED CHANGES, American Conference of Governmental Industrial Hygienists, OH.

PREPARED BY: Ricky A. Stackhouse PhD., Toxicologist
DATE CHANGED: 01/02/92 DATE PRINTED: 02/22/93

MONOETHANOLAMINE

MEA

Common Synonyms	Oily odor	Colorless	Slight ammonia odor
Beta-Aminoethyl alcohol 2-Hydroxyethylamine Ethanolamine 2-Aminoethanol	Salts and mixes with water. Freezing point is 51°F		

Avoid contact with solid
Wear goggles and self-contained breathing apparatus
Stop discharge if possible
Call fire department
Isolate and remove discharged material
Notify local health and pollution control agencies

Fire

Combustible
Wear goggles and self-contained breathing apparatus
Extinguish with dry chemical, alcohol foam or carbon dioxide
Cool exposed containers with water

Exposure

CALL FOR MEDICAL AID

LIQUID OR SOLID
Irritating to skin and eyes
Harmful if swallowed
Remove contaminated clothing and shoes
Flush affected areas with plenty of water
IF IN EYES hold eyelids open and flush with plenty of water
IF SWALLOWED and victim is CONSCIOUS have victim drink water
2 mins

Water Pollution

Dangerous in aquatic life in high concentrations
May be dangerous if it enters water intakes

Notify local health and wildlife officials
Notify operators of nearby water intakes

1. RESPONSE TO DISCHARGE

(See Response Methods Handbook)
Dispose and flush

2. LABEL

2.1 Category: Corrosive
2.2 Class: 8

3. CHEMICAL DESIGNATIONS

3.1 CG Compatibility Class: Amine/amino
3.2 Formula: $HOCH_2CH_2NH_2$
3.3 IMO/UN Classification: Not listed
3.4 DOT ID No.: 2491
3.5 CAS Registry No.: 141-43-5

4. OBSERVABLE CHARACTERISTICS

4.1 Physical State (at ambient): Liquid
4.2 Color: Colorless
4.3 Odor: Mildly ammoniacal

5. HEALTH HAZARDS

5.1 Personal Protective Equipment: Full face shield, goggles, and rubber gloves
5.2 Symptoms Following Exposure: Vapor irritates eyes and nose. Liquid causes local injury to mouth, throat, digestive tract, skin, and eyes.
5.3 Treatment of Exposure: INGESTION: induce vomiting by giving large volumes of warm soapy water (2 tablespoons per quart). Call a doctor. EYES: Flush with water for at least 15 min. Call a doctor. SKIN: Flush with water.
5.4 Threshold Limit Value: 3 ppm
5.5 Short Term Inhalation Limits: Data not available
5.6 Toxicity by Ingestion: Grade 2; LD_{50} = 0.5 to 5 g/kg (rat)
5.7 Late Toxicity: Data not available
5.8 Vapor (Gas) Irritant Characteristics: Vapors cause moderate irritation such that concentrations and high concentrations unbearable. The effect is temporary.
5.9 Liquid or Solid Irritant Characteristics: Causes smarting of the skin and first-degree burns on short exposure; may cause necrosis/burns on long exposure.
5.10 Odor Threshold: Data not available
5.11 IDLH Value: 1,000 ppm

6. FIRE HAZARDS

6.1 Flash Point: 185°F C.C., 200°F O.C.
6.2 Flammable Limits in Air: Data not available
6.3 Fire Extinguishing Agents: Water spray, alcohol foam, dry chemical or carbon dioxide
6.4 Fire Extinguishing Agents Not to Be Used: Not pertinent
6.5 Special Hazards of Combustion Products: Irritating vapors generated when heated.
6.6 Behavior in Fire: Not pertinent
6.7 Ignition Temperature: Data not available
6.8 Electrical Hazard: Not pertinent
6.9 Burning Rate: Data not available
6.10 Adiabatic Flame Temperature: Data not available

(Continued)

7. CHEMICAL REACTIVITY

7.1 Reactivity with Water: No reaction
7.2 Reactivity with Common Materials: No reaction
7.3 Stability During Transport: Stable
7.4 Neutralizing Agents for Acids and Caustics: Flush with water
7.5 Polymerization: Not pertinent
7.6 Inhibitor of Polymerization: Not pertinent
7.7 Molar Ratio (Reactant to Product): Data not available
7.8 Reactivity Group: 8

8. WATER POLLUTION

8.1 Aquatic Toxicity: [illegible] ppm/48 hr/[illegible]/[illegible] water
8.2 Waterfowl Toxicity: Data not available
8.3 Biological Oxygen Demand (BOD): 16% 5 days, (theor.) 0%, 5 days; 64%, 20 days
8.4 Food Chain Concentration Potential: None

9. SHIPPING INFORMATION

9.1 Grades of Purity: 98+ 85% (15% water); concentrated 99+ %
9.2 Storage Temperature: Ambient
9.3 Inert Atmosphere: No requirement
9.4 Venting: Open

10. HAZARD ASSESSMENT CHART

Not Applicable

11. HAZARD CLASSIFICATIONS

11.1 Code of Federal Regulations: Corrosive material
11.2 NAS Hazard Rating for Bulk Water Transportation:

Category	Rating
Fire	1
Health	
Vapor Hazard	2
Liquid or Solid Hazard	2
Poisons	2
Water Pollution	
Human Toxicity	2
Aquatic Toxicity	1
Additional Effect	2
Reactivity	
Other Chemicals	3
Water	2
Self Reaction	3

11.3 NFPA Hazard Classification:

Category	Classification
Health Hazard (Blue)	2
Flammability (Red)	2
Reactivity (Yellow)	1

12. PHYSICAL AND CHEMICAL PROPERTIES

12.1 Physical State at 15°C and 1 atm: Liquid
12.2 Molecular Weight: 61.08
12.3 Boiling Point at 1 atm: 338°F = 170°C = 443°K
12.4 Freezing Point: 50.5°F = 10.3°C = 283.5°K
12.5 Critical Temperature: 649°F = 341°C = 614°K
12.6 Critical Pressure: 947 psia = 64 atm = 4.45 MN/m²
12.7 Specific Gravity: 1.018 at 20°C (Solid)
12.8 Liquid Surface Tension: Not pertinent
12.9 Liquid-Water Interfacial Tension: Not pertinent
12.10 Vapor (Gas) Specific Gravity: Not pertinent
12.11 Ratio of Specific Heats of Vapor (Gas): Not pertinent
12.12 Latent Heat of Vaporization: 369 Btu/lb = 205 cal/g = 8.57 × 10⁵ J/kg
12.13 Heat of Combustion: −10,710 Btu/lb = −5950 cal/g = −249 × 10⁵ J/kg
12.14 Heat of Decomposition: Not pertinent
12.15 Heat of Solution: 440 Btu/lb = −10 cal/g = −0.4 × 10⁵ J/kg
12.16 Heat of Polymerization: Not pertinent
12.17 Heat of Fusion: Data not available
12.18 Limiting Value: Data not available
12.19 Reid Vapor Pressure: 0.01 psia

6. FIRE HAZARDS (Continued)

6.11 Stoichiometric Air to Fuel Ratio: Data not available
6.12 Flame Temperature: Data not available

Power Generation Chemicals | **Product Bulletin**

Elimin-ox

NALCO

NALCO ELIMIN-OX® OXYGEN SCAVENGER

Product Benefits

ELIMIN-OX is an all-volatile oxygen scavenger that does not require special handling and feeding equipment to provide safer chemical application. This easy-to-use liquid product does not add solids to the treated water, which would require increased blowdown or limit use at high pressures. The benefits of corrosion protection and boiler metal passivation include:

- Improved boiler reliability—fewer outages caused by corrosion and resultant tube failures
- Extended equipment life due to reduced oxygen corrosion of feedwater equipment, feedwater heaters, pumps, economizers

Principal Uses

ELIMIN-OX is used in boiler feedwater and condensate systems for scavenging oxygen and maintaining passive metal surfaces.

ELIMIN-OX is recommended for the following applications:

- Boilers using demineralized or high purity makeup
- Once-through boilers
- Waters used for spray attemperation of steam
- Condensate and steam systems where oxygen is present
- Wet lay-up of boilers and superheaters
- May be used in place of hydrazine where the steam contacts catalysts

General Description

ELIMIN-OX is a liquid chemical metal passivator and oxygen scavenger.

Color	Colorless
Odor	Musty
Density (@ 60°F)	8.5 lb/gal
Viscosity (@ 60°F)	3 cp
pH (Neat)	7.3
(1% Solution)	6.7
Freeze Point	28°F
Freeze-Thaw Recovery	Small amount of precipitation
Flash Point (PMCC)	None

Handling

Caution! May cause irritation to skin and eyes. Avoid contact with skin, eyes, and clothing. Do not take internally. In case of contact, wash skin with soap and water; for eyes, immediately flush with large amounts of water for at least 15 minutes, and get medical attention. Remove contaminated clothing and wash before reuse. Keep out of reach of children. Refer to the Material Safety Data Sheet for additional information.

Continued on Reverse Side

NALCO CHEMICAL COMPANY
ONE NALCO CENTER ◻ NAPERVILLE, ILLINOIS 60566-1024

SUBSIDIARIES IN ARGENTINA, AUSTRIA, BRAZIL, CHILE, COLOMBIA, ECUADOR, FINLAND, FRANCE, HOLLAND, HONG KONG, ITALY, JAPAN, PHILIPPINES, SAUDI ARABIA, SPAIN, SWEDEN, TAIWAN, USA, VENEZUELA, AND WEST GERMANY ◻ AFFILIATES IN AUSTRALIA, CANADA, INDIA, INDONESIA, MEXICO, SINGAPORE, SOUTH AFRICA, THE UNITED KINGDOM, AND USA

Registered Trademarks of Nalco Chemical Co.

NALCO

Feeding

ELIMIN-OX oxygen scavenger should be fed to the deaerator storage section below the water line using an 18-inch NAL-QUILL® injector. Condensate oxygen protection can be supplemented by feeding to the steam header, condensate extraction pump discharge, and the condensate hotwell.

ELIMIN-OX should be fed neat (undiluted). Product dilution can result in loss of product activity due to the reaction of the scavenger with ambient levels of oxygen in the dilution water.

Product dilution is only acceptable when feed rates are sufficiently low to preclude neat feed. If the product must be diluted, a stainless steel (304 or 316), polyethylene, or fiberglass solution tank is recommended. A floating "doughnut-type" cover is necessary to minimize the reaction with air. Use condensate or softened water between 50 and 100°F with minimal agitation.

NALCO ELIMIN-OX oxygen scavenger cannot be mixed with other chemicals. Chemical additions to the formulation may result in complete loss of oxygen scavenging activity or phase separation of the chemical.

ELIMIN-OX must be fed continuously. Any interruption in feed will result in corrosion in the feedwater system and possible tube failure in the boiler.

Dosage

The dosage of ELIMIN-OX varies depending on oxygen levels. Your Nalco representative can recommend the proper dosage needed to ensure maximum program performance.

Shipping

ELIMIN-OX is shipped from manufacturing locations and regional distribution centers in 55-gallon, nonreturnable steel drums, and in returnable PORTA-FEED® and PORTA-FEED, Jr. containers containing 385 and 175 gallons net respectively. It is also available in bulk quantities.

Storage

The suggested in-plant storage limit is one year.

ELIMIN-OX should be kept from freezing. Store ELIMIN-OX at temperatures below 120°F and above 40°F.

FDA/USDA Status

ELIMIN-OX cannot be used where compliance with FDA or USDA regulations is required.

ELIMIN-OX is not regulated as a hazardous waste or toxic pollutant.

Remarks

If you need assistance or information, please call your nearest Nalco representative, or our Naperville office at (312) 961-9500.

For **Medical and Transportation Emergencies** involving Nalco products call (24-hour response): (312) 920-1510.

MATERIAL SAFETY DATA SHEET

NALCO

PRODUCT

ELIMIN-OX OXYGEN SCAVENGER

Emergency Telephone Number

Medical (708) 920-1510 (24 hours)

SECTION 1 PRODUCT IDENTIFICATION

TRADE NAME: ELIMIN-OX OXYGEN SCAVENGER
DESCRIPTION: An aqueous solution of a modified amino compound

NFPA 704M/HMIS RATING: 1/1 HEALTH 0/0 FLAMMABILITY 0/0 REACTIVITY 0 OTHER
0=Insignificant 1=Slight 2=Moderate 3=High 4=Extreme

SECTION 2 HAZARDOUS INGREDIENTS

Our hazard evaluation of the ingredient(s) under OSHA's Hazard Communication Rule, 29 CFR 1910.1200 has found none of the ingredient(s) hazardous.

SECTION 3 PRECAUTIONARY LABEL INFORMATION

CAUTION: May cause skin irritation. Avoid contact with skin and clothing. Avoid prolonged or repeated breathing of vapor. Use with adequate ventilation. Do not take internally.

Empty containers may contain residual product. Do not reuse container unless properly reconditioned.

SECTION 4 FIRST AID INFORMATION

EYES: Flush with water for 15 minutes.
SKIN: Flush with water for 15 minutes.
INGESTION: Induce vomiting. Give water. Call a physician.
INHALATION: Remove to fresh air. Treat symptoms. Call a physician.

NOTE TO PHYSICIAN: Based on the individual reactions of the patient, the physician's judgment should be used to control symptoms and clinical condition.

CAUTION: If unconscious, having trouble breathing or in convulsions, do not induce vomiting or give water.

SECTION 5 HEALTH EFFECTS INFORMATION

PRIMARY ROUTE(S) OF EXPOSURE: Eye, Skin

EYE CONTACT: Non-irritating.
SKIN CONTACT: Can cause mild, short-lasting irritation.

SYMPTOMS OF EXPOSURE: A review of available data does not identify any symptoms from exposure.

AGGRAVATION OF EXISTING CONDITIONS: A review of available data does not

NALCO

PRODUCT

ELIMIN-OX OXYGEN SCAVENGER

Emergency Telephone Number

Medical (708) 920-1510 (24 hours)

SECTION 5 HEALTH EFFECTS INFORMATION (CONTINUED)

identify any worsening of existing conditions.

SECTION 6 TOXICOLOGY INFORMATION

ACUTE TOXICITY STUDIES: Acute toxicity studies have been conducted on this product. The results are shown below.

ACUTE ORAL TOXICITY (ALBINO RATS): LD50 = Greater than 5 g/kg

ACUTE DERMAL TOXICITY (ALBINO RABBITS): LD50 = Greater than 2 g/kg

PRIMARY SKIN IRRITATION TEST (ALBINO RABBITS):
SKIN IRRITATION INDEX DRAIZE RATING: 0.23/8.0 Minimal irritation

PRIMARY EYE IRRITATION TEST (ALBINO RABBITS):
EYE IRRITATION INDEX DRAIZE RATING: 0.33/110.0 Practically non-irritating

SECTION 7 PHYSICAL AND CHEMICAL PROPERTIES

COLOR: Colorless	FORM: Liquid	
DENSITY:	8.5-8.6 lbs/gal.	
SOLUBILITY IN WATER:	Completely	
SPECIFIC GRAVITY:	1.02-1.03 @ 60 Degrees F	ASTM D-1298
pH (NEAT) =	6 - 10 pH (at 1%) 6.7	ASTM E-70
VISCOSITY:	3 cps @ 60 Degrees F	ASTM D-2983
FREEZE POINT:	28 Degrees F	ASTM D-1177
FLASH POINT:	None (PMCC)	ASTM D-93

NOTE: These physical properties are typical values for this product.

SECTION 8 FIRE AND EXPLOSION INFORMATION

FLASH POINT: None (PMCC) ASTM D-93

EXTINGUISHING MEDIA: Not applicable

UNUSUAL FIRE AND EXPLOSION HAZARD: May evolve NOx under fire conditions. Containers exposed in a fire should be cooled with water to prevent vapor pressure buildup leading to a rupture.

SECTION 9 REACTIVITY INFORMATION

INCOMPATIBILITY: Avoid mineral acids and nitrites.

SECTION 9 REACTIVITY INFORMATION (CONTINUED)

Avoid contact with strong oxidizers (eg. chlorine, peroxides, chromates, nitric acid, perchlorates, concentrated oxygen, permanganates) which can generate heat, fires, explosions and the release of toxic fumes.

THERMAL DECOMPOSITION PRODUCTS: In the event of combustion CO, CO2, NOx may be formed. Do not breathe smoke or fumes. Wear suitable protective equipment.

SECTION 10 PERSONAL PROTECTION EQUIPMENT

RESPIRATORY PROTECTION: Respiratory protection is not normally needed since the volatility and toxicity are low. If significant vapors, mists or aerosols are generated, wear a NIOSH approved or equivalent respirator.

For large spills, entry into large tanks, vessels or enclosed small spaces with inadequate ventilation, a pressure-demand, self-contained breathing apparatus is recommended.

VENTILATION: General ventilation is recommended.

PROTECTIVE EQUIPMENT: Use impermeable gloves and chemical splash goggles when attaching feeding equipment, doing maintenance or handling product. Examples of impermeable gloves available on the market are neoprene, nitrile, PVC, natural rubber, viton and butyl (compatibility studies have not been performed).

The availability of an eye wash fountain and safety shower is recommended.

If clothing is contaminated, remove clothing and thoroughly wash the affected area. Launder contaminated clothing before reuse.

SECTION 11 SPILL AND DISPOSAL INFORMATION

IN CASE OF TRANSPORTATION ACCIDENTS, CALL THE FOLLOWING 24-HOUR TELEPHONE NUMBER (708-920-1510)

SPILL CONTROL AND RECOVERY:

Small liquid spills: Contain with absorbent material, such as clay, soil or any commercially available absorbent. Shovel reclaimed liquid and absorbent into recovery or salvage drums for disposal. Refer to CERCLA in Section 14.

Large liquid spills: Dike to prevent further movement and reclaim into recovery or salvage drums or tank truck for disposal. Refer to CERCLA in Section 14.

For large indoor spills, evacuate employees and ventilate area. Those

SECTION 11 SPILL AND DISPOSAL INFORMATION (CONTINUED)

responsible for control and recovery should wear the protective equipment specified in Section 10.

DISPOSAL: If this product becomes a waste, it does not meet the criteria of a hazardous waste as defined under the Resource Conservation and Recovery Act (RCRA) 40 CFR 261, since it does not have the characteristics of Subpart C, nor is it listed under Subpart D.

As a non-hazardous liquid waste, it should be solidified with stabilizing agents (such as sand, fly ash, or cement) so that no free liquid remains before disposal to an industrial waste landfill. A non-hazardous liquid waste can also be deep-well injected in accordance with local, state and federal regulations.

SECTION 12 ENVIRONMENTAL INFORMATION

AQUATIC DATA:

96 hour static acute LC50 to Bluegill Sunfish = 190 ppm

96 hour static acute LC50 to Rainbow Trout = 360 ppm

AQUATIC DATA:

Results below are based on the product.

96 hour static acute LC50 to Fathead Minnow = 400 mg/L

96 hour no observed effect concentration is 100 mg/L based on no mortality or abnormal effects.

TOXICITY RATING: Slight toxic

48 hour static acute LC50 to Daphnia magna = 96 mg/L

48 hour no observed effect concentration is 20 mg/L based on no mortality or abnormal effects.

TOXICITY RATING: Moderately toxic

If released into the environment, see CERCLA in Section 14.

SECTION 13 TRANSPORTATION INFORMATION

DOT PROPER SHIPPING NAME/HAZARD CODE - PRODUCT IS NOT REGULATED DURING TRANSPORTATION

SECTION 14 REGULATORY INFORMATION

The following regulations apply to this product.

FEDERAL REGULATIONS:

OSHA'S HAZARD COMMUNICATION RULE, 29 CFR 1910.1200:
Based on our hazard evaluation, this product is not hazardous.

CERCLA, 40 CFR 117, 302:
Notification of spills of this product is not required.

SARA/SUPERFUND AMENDMENTS AND REAUTHORIZATION ACT OF 1986 (TITLE III) - SECTIONS 302, 311, 312 AND 313:

SECTION 302 - EXTREMELY HAZARDOUS SUBSTANCES (40 CFR 355):
This product does not contain ingredients listed in Appendix A and B as an Extremely Hazardous Substance.

SECTIONS 311 and 312 - MATERIAL SAFETY DATA SHEET REQUIREMENTS (40 CFR 370):
Our hazard evaluation has found that this product is not hazardous under 29 CFR 1910.1200.

SECTION 313 - LIST OF TOXIC CHEMICALS (40 CFR 372):
This product does not contain ingredients on the List of Toxic Chemicals.

TOXIC SUBSTANCES CONTROL ACT (TSCA):
The chemical ingredients in this product are on the 8(b) Inventory List (40 CFR 710).

RESOURCE CONSERVATION AND RECOVERY ACT (RCRA), 40 CFR 261 SUBPART C & D:
Consult Section 11 for RCRA classification.

FEDERAL WATER POLLUTION CONTROL ACT, CLEAN WATER ACT, 40 CFR 401.15 (formerly Sec. 307), 40 CFR 116 (formerly Sec. 311):
None of the ingredients are specifically listed.

CLEAN AIR ACT, 40 CFR 60, SECTION 111, 40 CFR 61, SECTION 112:
This product does not contain ingredients covered by the Clean Air Act.

STATE REGULATIONS:

NALCO

PRODUCT

ELIMIN-OX OXYGEN SCAVENGER

Emergency Telephone Number

Medical (708) 920-1510 (24 hours)

SECTION 14 REGULATORY INFORMATION (CONTINUED)

CALIFORNIA PROPOSITION 65:
Hydrazine is known to the State of California to cause cancer. This product contains levels of hydrazine as an impurity at less than 0.01%.

MICHIGAN CRITICAL MATERIALS:
This product does not contain ingredients listed on the Michigan Critical Materials Register.

STATE RIGHT TO KNOW LAWS:
The following ingredient(s) are disclosed for compliance with State Right To Know Laws:

Carbohydrazide	497-18-7
Water	7732-18-5

INTERNATIONAL REGULATIONS:

This is not a WHMIS controlled product under The House of Commons of Canada Bill C-70.

SECTION 15 ADDITIONAL INFORMATION

None

SECTION 16 USER'S RESPONSIBILITY

This product material safety data sheet provides health and safety information. The product is to be used in applications consistent with our product literature. Individuals handling this product should be informed of the recommended safety precautions and should have access to this information. For any other uses, exposures should be evaluated so that appropriate handling practices and training programs can be established to ensure safe workplace operations. Please consult your local sales representative for any further information.

SECTION 17 BIBLIOGRAPHY

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SECTION 17 BIBLIOGRAPHY (CONTINUED)

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REGISTRY OF TOXIC EFFECTS ON CHEMICAL SUBSTANCES, U.S. Department of Health and Human Services, Public Health Service, Center for Disease Control, National Institute for Occupational Safety and Health, 1983 supplement of 1981-1982 edition, Vol. 1-3, OH, 1984.

Title 29 Code of Federal Regulations Part 1910, Subpart Z, Toxic and Hazardous Substances, Occupational Safety and Health Administration (OSHA).

THRESHOLD LIMIT VALUES FOR CHEMICAL SUBSTANCES AND PHYSICAL AGENTS IN THE WORKROOM ENVIRONMENT WITH INTENDED CHANGES, American Conference of Governmental Industrial Hygienists, OH.

PREPARED BY: Ricky A. Stackhouse PhD., Toxicologist
DATE CHANGED: 01/24/92 DATE PRINTED: 09/08/92

BETZDEARBORN MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 29-JAN-1997
PRINTED DATE: 20-SEP-1999

1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : DEPOSITROL BL5301

PRODUCT APPLICATION AREA: WATER-BASED DEPOSIT CONTROL AGENT.

COMPANY ADDRESS:
BetzDearborn Inc.
4636 Somerton Road , Trevose , PA 19053
Information phone number: 215 355-3300

EMERGENCY TELEPHONE (HEALTH/ACCIDENT): (800)-877-1940 (USA)

2) COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

CAS#	CHEMICAL NAME
2809-21-4	PHOSPHONIC ACID,(1-HYDROXYETHYLIDINE)BIS- (HEDP) Corrosive (eyes)

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

3) HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW

CAUTION

May cause moderate irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard: Corrosive to steel
Emergency Response Guide #153
Odor: Mild; Appearance: Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause moderate irritation to the skin.

ACUTE EYE EFFECTS:
May cause moderate irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:
May cause gastrointestinal irritation with possible nausea, vomiting, abdominal discomfort and diarrhea.

TARGET ORGANS:
No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin, irritation, and/or tearing of eyes (direct contact).

4) FIRST AID MEASURES

SKIN CONTACT:
Remove contaminated clothing. Wash exposed area with a large quantity of soap solution or water for 15 minutes.
EYE CONTACT:
Immediately flush eyes with water for 15 minutes. Immediately contact a physician for additional treatment.
INHALATION:
Remove victim from contaminated area to fresh air. Apply appropriate first aid treatment as necessary.
INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

5) FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition (destructive fires) yields elemental oxides.
FLASH POINT:
> 200F > 93C P-M(CC)
MISCELLANEOUS:
Corrosive to steel
UN3265;Emergency Response Guide #153

6) ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7) HANDLING AND STORAGE

HANDLING:
Acidic. Do not mix with alkaline material.
STORAGE:
Keep containers closed when not in use. Use approved containers only. Store in cool, well-vented area. Contact with metals may release flammable hydrogen gas.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME	EXPOSURE LIMITS

PHOSPHONIC ACID,(1-HYDROXYETHYLIDINE)BIS- (HEDP)
PEL (OSHA): NOT DETERMINED
TLV (ACGIH): NOT DETERMINED

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.
SKIN PROTECTION:
rubber gloves-- Wash off after each use. Replace as necessary.
EYE PROTECTION:
splash proof chemical goggles

9) PHYSICAL AND CHEMICAL PROPERTIES

Specific Grav.(70F,21C)	1.406	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	< -30	Vapor Density (air=1)	< 1.00
Freeze Point (C)	< -34		
Viscosity(cps 70F,21C)	80	% Solubility (water)	100.0

Odor		Mild
Appearance		Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		< 1.0
Evaporation Rate (Ether=1)		< 1.00

NA = not applicable ND = not determined

10) STABILITY AND REACTIVITY

STABILITY:
Stable under normal storage conditions.
HAZARDOUS POLYMERIZATION:
Will not occur.
INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
Thermal decomposition (destructive fires) yields elemental oxides.
BETZDEARBORN INTERNAL PUMPOUT/CLEANOUT CATEGORIES:
"B"

11) TOXICOLOGICAL INFORMATION

Oral LD50 RAT:	>4,000 mg/kg
NOTE - Estimated value	
Dermal LD50 RABBIT:	>4,000 mg/kg
NOTE - Estimated value	
Eye Irritation Score RABBIT:	9.3
NOTE - Maximum score at 48 hr;	completely reversible by day 14

12) ECOLOGICAL INFORMATION

AQUATIC TOXICOLOGY

Fathead Minnow 48 Hour Static Screen
Toxicity estimated from product with similar formulation at a pH of 6-9.

0% Mortality: 500 mg/L

Daphnia magna 48 Hour Static Screen
Toxicity estimated from product with similar formulation at a pH of 6-9.

0% Mortality: 500 mg/L

BIODEGRADATION

COD (mg/gm):	329 Calculated
TOC (mg/gm):	89 Calculated
BOD-5 (mg/gm):	3 Calculated
BOD-28 (mg/gm):	7 Calculated

13) DISPOSAL CONSIDERATIONS

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
D002=Corrosive(pH, steel).

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14) TRANSPORT INFORMATION

DOT HAZARD:	Corrosive to steel
UN / NA NUMBER:	UN3265
DOT EMERGENCY RESPONSE GUIDE #:	153

15) REGULATORY INFORMATION

TSCA:
All components of this product are listed in the TSCA inventory.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
SARA SECTION 312 HAZARD CLASS:
Immediate(acute)
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:

No regulated constituent present at OSHA thresholds

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16) OTHER INFORMATION

NFPA/HMIS	CODE TRANSLATION	
Health	2	Moderate Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	29-JAN-1997		** NEW **

BETZDEARBORN MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 28-JAN-1997
PRINTED DATE: 20-SEP-1999

1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : DEPOSITROL BL5400

PRODUCT APPLICATION AREA: WATER-BASED DEPOSIT CONTROL AGENT.

COMPANY ADDRESS:
BetzDearborn Inc.
4636 Somerton Road , Trevose , PA 19053
Information phone number: 215 355-3300

EMERGENCY TELEPHONE (HEALTH/ACCIDENT): (800)-877-1940 (USA)

2) COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

CAS#	CHEMICAL NAME
2809-21-4	PHOSPHONIC ACID,(1-HYDROXYETHYLIDINE)BIS- (HEDP) Corrosive (eyes)

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

3) HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW

DANGER

May cause moderate irritation to the skin. Corrosive to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard: Corrosive to steel
Emergency Response Guide #153
Odor: Mild; Appearance: Colorless To Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause moderate irritation to the skin.

ACUTE EYE EFFECTS:
Corrosive to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:
May cause severe irritation or burning of the gastrointestinal tract.

TARGET ORGANS:
No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin, irritation, and/or tearing of eyes (direct contact).

4) FIRST AID MEASURES

SKIN CONTACT:
Remove contaminated clothing. Wash exposed area with a large quantity of soap solution or water for 15 minutes.
EYE CONTACT:
Immediately flush eyes with water for 15 minutes. Immediately contact a physician for additional treatment.
INHALATION:
Remove victim from contaminated area to fresh air. Apply appropriate first aid treatment as necessary.
INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

5) FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition (destructive fires) yields elemental oxides.
FLASH POINT:
> 200F SETA(CC)
MISCELLANEOUS:
Corrosive to steel
UN3265;Emergency Response Guide #153

6) ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7) HANDLING AND STORAGE

HANDLING:
Acidic. Corrosive(Eyes). Do not mix with alkaline material.
STORAGE:
Keep containers closed when not in use. Do not freeze. If frozen, thaw and mix completely prior to use.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

CHEMICAL NAME

PHOSPHONIC ACID,(1-HYDROXYETHYLIDINE)BIS- (HEDP)
PEL (OSHA): NOT DETERMINED
TLV (ACGIH): NOT DETERMINED

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.
SKIN PROTECTION:
neoprene gloves-- Wash off after each use. Replace as necessary.
EYE PROTECTION:
splash proof chemical goggles

9) PHYSICAL AND CHEMICAL PROPERTIES

Specific Grav. (70F)	1.437	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	< -30.00	Vapor Density (air=1)	< 1.00
Viscosity (cps 70F)	85	% Solubility (water)	100.0

Odor	Mild
Appearance	Colorless To Yellow
Physical State	Liquid
Flash Point (F)	> 200 SETA(CC)
pH As Is (approx.)	< 1.0
Evaporation Rate (Ether=1)	< 1.00

NA = not applicable ND = not determined

CONTINUED

10) STABILITY AND REACTIVITY

STABILITY:
Stable under normal storage conditions.
HAZARDOUS POLYMERIZATION:
Will not occur.
INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
Thermal decomposition (destructive fires) yields elemental oxides.
BETZ INTERNAL PUMPOUT/CLEANOUT CATEGORIES:
"B"

11) TOXICOLOGICAL INFORMATION

Oral LD50 RAT:	2,400 mg/kg
Dermal LD50 RABBIT:	>7,940 mg/kg
NOTE - FHSA	
Skin Irritation Score RABBIT:	0
Eye Irritation Score RABBIT:	CORROSIVE
90 Day Feed Study RAT:	NOEL:10,000 ppm
NOTE - Hemopoeitic effects at 30,000 ppm	
90 Day Feed Study DOG:	.062-1%
NOTE - 2 year-feed study. Reversible anemia developed at 1% in diet.	
90 Day Feed Study DOG:	20-60 mg/kg
NOTE - 30-day study. No pathological effects.	
Ames Assay BACTERIA:	NEGATIVE
NOTE - +/- metabolic activation	
Non-Ames Mutagenicity :	NEGATIVE
NOTE - Mouse Lymphoma Assay +/- metabolic activation	

12) ECOLOGICAL INFORMATION

AQUATIC TOXICOLOGY

Rainbow Trout 96 Hour Static Acute Bioassay

LC50: 610 mg/L
No Effect Level: 250 mg/L

Daphnia magna 48 Hour Static Renewal Bioassay
pH of test solutions was adjusted to a level of 6-9.

LC50: 755 mg/L
No Effect Level: 420 mg/L

Bluegill Sunfish 96 Hour Static Acute Bioassay

LC50: 1440 mg/L
No Effect Level: 880 mg/L

Sheepshead Minnow 96 Hour Static Acute Bioassay

LC50: 3630 mg/L
No Effect Level: 170 mg/L

Fathead Minnow 96 Hour Static Renewal Bioassay
pH of test solutions was adjusted to a level of 6-9.

LC50: 3040 mg/L
No Effect Level: 1370 mg/L

BIODEGRADATION

COD (mg/gm):	390
TOC (mg/gm):	91
BOD-5 (mg/gm):	1
BOD-28 (mg/gm):	1

13) DISPOSAL CONSIDERATIONS

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
D002=Corrosive(pH, steel).

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14) TRANSPORT INFORMATION

DOT HAZARD:	Corrosive to steel
UN / NA NUMBER:	UN3265
DOT EMERGENCY RESPONSE GUIDE #:	153

15) REGULATORY INFORMATION

TSCA:
All components of this product are listed in the TSCA inventory.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
SARA SECTION 312 HAZARD CLASS:
Immediate(acute)
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:

No regulated constituent present at OSHA thresholds

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16) OTHER INFORMATION

NFPA/HMIS	CODE TRANSLATION	
Health	3	Serious Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	CORR	DOT corrosive
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	28-JAN-1997		** NEW **

BETZDEARBORN MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 06-FEB-1998
PRINTED DATE: 20-SEP-1999

1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : DIANODIC DN2300

PRODUCT APPLICATION AREA: WATER-BASED DEPOSIT CONTROL AGENT.

COMPANY ADDRESS:
BetzDearborn Inc.
4636 Somerton Road , Trevose , PA 19053
Information phone number: 215 355-3300

EMERGENCY TELEPHONE (HEALTH/ACCIDENT): (800)-877-1940 (USA)

2) COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

This product is not hazardous as defined by OSHA regulations.

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

3) HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW

CAUTION

Non-hazardous to skin. May cause slight irritation to the eyes.
Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable
Emergency Response Guide is not applicable
Odor: Slight; Appearance: Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; Non-hazardous to skin.

ACUTE EYE EFFECTS:
May cause slight irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:
May cause slight gastrointestinal irritation.

TARGET ORGANS:
No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin, irritation, and/or tearing of eyes (direct contact).

4) FIRST AID MEASURES

SKIN CONTACT:
No treatment required.
EYE CONTACT:
Immediately flush eyes with water for 15 minutes. Immediately contact a physician for additional treatment.
INHALATION:
Remove victim from contaminated area to fresh air. Apply appropriate first aid treatment as necessary.
INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

5) FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition (destructive fires) yields elemental oxides.
FLASH POINT:
> 200F > 93C P-M(CC)

6) ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7) HANDLING AND STORAGE

HANDLING:
Normal chemical handling.
STORAGE:
Keep containers closed when not in use. Store in cool ventilated location. Store away from oxidizers.

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

This product is not hazardous as defined by OSHA regulations.

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.
SKIN PROTECTION:
Use of gloves made of rubber or synthetic material is optional. Wash off after each use. Replace as necessary.
EYE PROTECTION:
splash proof chemical goggles

9) PHYSICAL AND CHEMICAL PROPERTIES

Specific Grav.(70F,21C)	1.169	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	25	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-4		
Viscosity(cps 70F,21C)	42	% Solubility (water)	100.0

Odor		Slight
Appearance		Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		5.2
Evaporation Rate (Ether=1)		< 1.00

NA = not applicable ND = not determined

10) STABILITY AND REACTIVITY

STABILITY:
Stable under normal storage conditions.
HAZARDOUS POLYMERIZATION:
Will not occur.
INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
Thermal decomposition (destructive fires) yields elemental oxides.
BETZDEARBORN INTERNAL PUMPOUT/CLEANOUT CATEGORIES:
"A"

11) TOXICOLOGICAL INFORMATION

Oral LD50 RAT:	>5,000 mg/kg
Dermal LD50 RABBIT:	>2,000 mg/kg
Skin Irritation Score RABBIT:	0.3
NOTE - Value is for testing of a similar material	
Eye Irritation Score RABBIT:	2.0
NOTE - Value is for testing of a similar material; completely reversible by 72 hrs.	

12) ECOLOGICAL INFORMATION

AQUATIC TOXICOLOGY

Fathead Minnow 96 Hour Static Renewal Bioassay
pH of test solutions was adjusted to a level of 6-9.

LC50: 1960 mg/L
No Effect Level: 313 mg/L

Daphnia magna 48 Hour Static Renewal Bioassay
pH of test solutions was adjusted to a level of 6-9.

LC50: 1767 mg/L
No Effect Level: 1250 mg/L

Mysid Shrimp 48 Hour Static Renewal Bioassay
pH of test solutions was adjusted to a level of 6-9.

10% Mortality: 16000 mg/L
0% Mortality: 8000 mg/L

Sheepshead Minnow 96 Hour Static Renewal Bioassay
pH of test solutions was adjusted to a level of 6-9.

0% Mortality: 16000 mg/L

BIODEGRADATION

COD (mg/gm):	368 Calculated
TOC (mg/gm):	144 Calculated
BOD-5 (mg/gm):	10 Calculated
BOD-28 (mg/gm):	32 Calculated

13) DISPOSAL CONSIDERATIONS

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14) TRANSPORT INFORMATION

DOT HAZARD:	Not Applicable
UN / NA NUMBER:	Not applicable
DOT EMERGENCY RESPONSE GUIDE #:	Not applicable

CONTINUED

15) REGULATORY INFORMATION

TSCA:
All components of this product are listed in the TSCA inventory.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
FOOD AND DRUG ADMINISTRATION:
FDA APPROVED FOR MILL SUPPLY WATER
USDA FEDERALLY INSPECTED MEAT AND POULTRY PLANTS:
SEC.G5,G7
SARA SECTION 312 HAZARD CLASS:
Product is non-hazardous under Section 311/312
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:

No regulated constituent present at OSHA thresholds

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16) OTHER INFORMATION

NFPA/HMIS	CODE TRANSLATION	
Health	0	Minimal Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	29-JAN-1997		** NEW **
	08-MAY-1997	15	29-JAN-1997
	10-SEP-1997	3,8,10,11,16;EDIT:4	08-MAY-1997
	10-NOV-1997	15	10-SEP-1997
	06-FEB-1998	12	10-NOV-1997

BETZDEARBORN MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 03-SEP-1997
PRINTED DATE: 29-NOV-1999

BetzDearborn

1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : DEPOSITROL BL5323

PRODUCT APPLICATION AREA: WATER-BASED CORROSION INHIBITOR/DEPOSIT CONTROL AGENT.

COMPANY ADDRESS:
BetzDearborn Inc.
4636 Somerton Road , Trevose , PA 19053
Information phone number: 215 355-3300

EMERGENCY TELEPHONE (HEALTH/ACCIDENT): (800)-877-1940 (USA)

2) COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

CAS#	CHEMICAL NAME
2809-21-4	PHOSPHONIC ACID,(1-HYDROXYETHYLIDINE)BIS- (HEDP) Corrosive (eyes)

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

CONTINUED

PRODUCT NAME : DEPOSITROL BL5323
EFFECTIVE DATE: 03-SEP-1997

3) HAZARDS IDENTIFICATION

****

EMERGENCY OVERVIEW

CAUTION

May cause slight irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable
Emergency Response Guide is not applicable
Odor: Slight; Appearance: Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical, carbon dioxide, foam or water

****

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure; May cause slight irritation to the skin.

ACUTE EYE EFFECTS:
May cause moderate irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:
May cause slight gastrointestinal irritation.

TARGET ORGANS:
No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin.

4) FIRST AID MEASURES

SKIN CONTACT:
Remove contaminated clothing. Wash exposed area with a large quantity of soap solution or water for 15 minutes.
EYE CONTACT:
Immediately flush eyes with water for 15 minutes. Immediately contact a physician for additional treatment.
INHALATION:
Remove victim from contaminated area to fresh air. Apply appropriate first aid treatment as necessary.
INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

5) FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical, carbon dioxide, foam or water
HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition (destructive fires) yields elemental oxides.
FLASH POINT:
> 200F > 93C P-M(CC)

6) ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7) HANDLING AND STORAGE

HANDLING:
Acidic. Do not mix with alkaline material.
STORAGE:
Keep containers closed when not in use. Do not freeze. If frozen, thaw and mix completely prior to use.

PRODUCT NAME : DEPOSITROL BL5323
EFFECTIVE DATE: 03-SEP-1997

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

CHEMICAL NAME — **EXPOSURE LIMITS**

PHOSPHONIC ACID,(1-HYDROXYETHYLIDINE)BIS- (HEDP)
PEL (OSHA): NOT DETERMINED
TLV (ACGIH): NOT DETERMINED

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.
SKIN PROTECTION:
neoprene gloves-- Wash off after each use. Replace as necessary.
EYE PROTECTION:
splash proof chemical goggles

9) PHYSICAL AND CHEMICAL PROPERTIES

Specific Grav.(70F,21C)	1.256	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	25	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-4		
Viscosity(cps 70F,21C)	90	% Solubility (water)	100.0

Odor		Slight
Appearance		Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		2.2
Evaporation Rate (Ether=1)		< 1.00

NA = not applicable ND = not determined

10) STABILITY AND REACTIVITY

STABILITY:
Stable under normal storage conditions.
HAZARDOUS POLYMERIZATION:
Will not occur.
INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
Thermal decomposition (destructive fires) yields elemental oxides.
BETZDEARBORN INTERNAL PUMPOUT/CLEANOUT CATEGORIES:
"B"

11) TOXICOLOGICAL INFORMATION

Oral LD50 RAT:	>2,000 mg/kg
NOTE - Estimated value	
Dermal LD50 RABBIT:	>2,000 mg/kg
NOTE - Estimated value	

12) ECOLOGICAL INFORMATION

AQUATIC TOXICOLOGY
No Data Available.

BIODEGRADATION

COD (mg/gm):	416 Calculated
TOC (mg/gm):	152 Calculated
BOD-5 (mg/gm):	9 Calculated
BOD-28 (mg/gm):	31 Calculated

13) DISPOSAL CONSIDERATIONS

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14) TRANSPORT INFORMATION

DOT HAZARD:	Not Applicable
UN / NA NUMBER:	Not applicable
DOT EMERGENCY RESPONSE GUIDE #:	Not applicable

 CONTINUED

PRODUCT NAME : DEPOSITROL BL5323
EFFECTIVE DATE: 03-SEP-1997

15) REGULATORY INFORMATION

TSCA:
All components of this product are listed in the TSCA inventory.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
SARA SECTION 312 HAZARD CLASS:
Immediate(acute)
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:

No regulated constituent present at OSHA thresholds

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16) OTHER INFORMATION

NFPA/HMIS	CODE	TRANSLATION
Health	1	Slight Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	03-SEP-1997		** NEW **

BETZDEARBORN MATERIAL SAFETY DATA SHEET

EFFECTIVE DATE: 26-JUN-1996
PRINTED DATE: 11-DEC-1998

1) CHEMICAL PRODUCT AND COMPANY IDENTIFICATION

PRODUCT NAME : POWERLINE 369210

PRODUCT APPLICATION AREA: WATER-BASED DEPOSIT CONTROL AGENT.

COMPANY ADDRESS:
BetzDearborn Inc.
4636 Somerton Road, Trevose, Pa. 19053
Information phone number: (215) - 355-3300

EMERGENCY TELEPHONE (HEALTH/ACCIDENT): (800)-877-1940 (USA)

2) COMPOSITION / INFORMATION ON INGREDIENTS

Information for specific product ingredients as required by the U.S. OSHA HAZARD COMMUNICATION STANDARD is listed. Refer to additional sections of this MSDS for our assessment of the potential hazards of this formulation.

HAZARDOUS INGREDIENTS:

CAS#	CHEMICAL NAME
2809-21-4	PHOSPHONIC ACID,(1-HYDROXYETHYLIDINE)BIS- (HEDP) Corrosive (eyes)

No component is considered to be a carcinogen by the National Toxicology Program, the International Agency for Research on Cancer, or the Occupational Safety and Health Administration at OSHA thresholds for carcinogens.

PRODUCT NAME : POWERLINE 369210
EFFECTIVE DATE: 26-JUN-1996

3) HAZARDS IDENTIFICATION

EMERGENCY OVERVIEW

CAUTION

May cause moderate irritation to the skin. May cause moderate irritation to the eyes. Mists/aerosols may cause irritation to upper respiratory tract.

DOT hazard is not applicable
Emergency Response Guide is not applicable
Odor: Slight; Appearance: Colorless To Yellow, Liquid

Fire fighters should wear positive pressure self-contained breathing apparatus(full face-piece type). Proper fire-extinguishing media: dry chemical/CO2/foam or water—Slippery condition; use sand/grit.

POTENTIAL HEALTH EFFECTS

ACUTE SKIN EFFECTS:
Primary route of exposure: May cause moderate irritation to the skin.

ACUTE EYE EFFECTS:
May cause moderate irritation to the eyes.

ACUTE RESPIRATORY EFFECTS:
Mists/aerosols may cause irritation to upper respiratory tract.

INGESTION EFFECTS:
May cause gastrointestinal irritation with possible nausea, vomiting, abdominal discomfort and diarrhea.

TARGET ORGANS:
No evidence of potential chronic effects.

MEDICAL CONDITIONS AGGRAVATED:
Not known.

SYMPTOMS OF EXPOSURE:
May cause redness or itching of skin, irritation, and/or tearing of eyes (direct contact).

PRODUCT NAME : POWERLINE 369210
EFFECTIVE DATE: 26-JUN-1996

4) FIRST AID MEASURES

SKIN CONTACT:
Remove contaminated clothing. Wash exposed area with a large quantity of soap solution or water for 15 minutes.
EYE CONTACT:
Immediately flush eyes with water for 15 minutes. Immediately contact a physician for additional treatment.
INHALATION:
Remove victim from contaminated area to fresh air. Apply appropriate first aid treatment as necessary.
INGESTION:
Do not feed anything by mouth to an unconscious or convulsive victim. Do not induce vomiting. Immediately contact physician. Dilute contents of stomach using 3-4 glasses milk or water.

5) FIRE FIGHTING MEASURES

FIRE FIGHTING INSTRUCTIONS:
Fire fighters should wear positive pressure self-contained breathing apparatus (full face-piece type).
EXTINGUISHING MEDIA:
dry chemical/CO2/foam or water–Slippery condition; use sand/grit.
HAZARDOUS DECOMPOSITION PRODUCTS:
Thermal decomposition (destructive fires) yields elemental oxides.
FLASH POINT:
> 200F > 93C P-M(CC)

6) ACCIDENTAL RELEASE MEASURES

PROTECTION AND SPILL CONTAINMENT:
Ventilate area. Use specified protective equipment. Contain and absorb on absorbent material. Place in waste disposal container. Flush area with water. Wet area may be slippery. Spread sand/grit.
DISPOSAL INSTRUCTIONS:
Water contaminated with this product may be sent to a sanitary sewer treatment facility,in accordance with any local agreement,a permitted waste treatment facility or discharged under a permit. Product as is - Incinerate or land dispose in an approved landfill.

7) HANDLING AND STORAGE

HANDLING:
Alkaline. Do not mix with acidic material.
STORAGE:
Keep containers closed when not in use. Reasonable and safe chemical storage.

PRODUCT NAME : POWERLINE 369210
EFFECTIVE DATE: 26-JUN-1996

8) EXPOSURE CONTROLS/PERSONAL PROTECTION

EXPOSURE LIMITS

CHEMICAL NAME

PHOSPHONIC ACID,(1-HYDROXYETHYLIDINE)BIS- (HEDP)
PEL (OSHA): NOT DETERMINED
TLV (ACGIH): NOT DETERMINED

ENGINEERING CONTROLS:
adequate ventilation
PERSONAL PROTECTIVE EQUIPMENT:
Use protective equipment in accordance with 29CFR 1910 Subpart I
RESPIRATORY PROTECTION:
A RESPIRATORY PROTECTION PROGRAM THAT MEETS OSHA'S 29 CFR 1910.134 AND ANSI Z88.2 REQUIREMENTS MUST BE FOLLOWED WHENEVER WORKPLACE CONDITIONS WARRANT A RESPIRATOR'S USE.
USE AIR PURIFYING RESPIRATORS WITHIN USE LIMITATIONS ASSOCIATED WITH THE EQUIPMENT OR ELSE USE SUPPLIED AIR-RESPIRATORS.
If air-purifying respirator use is appropriate, use a respirator with dust/mist filters.
SKIN PROTECTION:
neoprene gloves-- Wash off after each use. Replace as necessary.
EYE PROTECTION:
splash proof chemical goggles

9) PHYSICAL AND CHEMICAL PROPERTIES

Specific Grav.(70F,21C)	1.215	Vapor Pressure (mmHG)	~ 18.0
Freeze Point (F)	25	Vapor Density (air=1)	< 1.00
Freeze Point (C)	-4		
Viscosity(cps 70F,21C)	23	% Solubility (water)	100.0

Odor		Slight
Appearance		Colorless To Yellow
Physical State		Liquid
Flash Point	P-M(CC)	> 200F > 93C
pH As Is (approx.)		2.4
Evaporation Rate (Ether=1)		< 1.00

NA = not applicable ND = not determined

PRODUCT NAME : POWERLINE 369210
EFFECTIVE DATE: 26-JUN-1996

10) STABILITY AND REACTIVITY

STABILITY:
Stable under normal storage conditions.
HAZARDOUS POLYMERIZATION:
Will not occur.
INCOMPATIBILITIES:
May react with strong oxidizers.
DECOMPOSITION PRODUCTS:
Thermal decomposition (destructive fires) yields elemental oxides.
BETZDEARBORN INTERNAL PUMPOUT/CLEANOUT CATEGORIES:
"B"

11) TOXICOLOGICAL INFORMATION

Oral LD50 RAT:	>2,000 mg/kg
NOTE - Estimated value	
Dermal LD50 RABBIT:	>2,000 mg/kg
NOTE - Estimated value	
Eye Irritation Score RABBIT:	MODERATE
NOTE - Completely reversible; estimated based on testing of similar material	

12) ECOLOGICAL INFORMATION

AQUATIC TOXICOLOGY
No Data Available.

BIODEGRADATION

COD (mg/gm):	175 Calculated
TOC (mg/gm):	55 Calculated
BOD-5 (mg/gm):	1 Calculated
BOD-28 (mg/gm):	3 Calculated

13) DISPOSAL CONSIDERATIONS

If this undiluted product is discarded as a waste, the US RCRA hazardous waste identification number is :
Not applicable.

Please be advised; however, that state and local requirements for waste disposal may be more restrictive or otherwise different from federal regulations. Consult state and local regulations regarding the proper disposal of this material.

14) TRANSPORT INFORMATION

DOT HAZARD:	Not Applicable
UN / NA NUMBER:	Not applicable
DOT EMERGENCY RESPONSE GUIDE #:	Not applicable

CONTINUED

PRODUCT NAME : POWERLINE 369210
EFFECTIVE DATE: 26-JUN-1996

15) REGULATORY INFORMATION

TSCA:
All components of this product are listed in the TSCA inventory.
CERCLA AND/OR SARA REPORTABLE QUANTITY (RQ):
No regulated constituent present at OSHA thresholds
SARA SECTION 312 HAZARD CLASS:
Immediate(acute)
SARA SECTION 302 CHEMICALS:
No regulated constituent present at OSHA thresholds
SARA SECTION 313 CHEMICALS:
No regulated constituent present at OSHA thresholds

CALIFORNIA REGULATORY INFORMATION

CALIFORNIA SAFE DRINKING WATER AND TOXIC ENFORCEMENT ACT (PROPOSITION 65) CHEMICALS PRESENT:

No regulated constituent present at OSHA thresholds

MICHIGAN REGULATORY INFORMATION

No regulated constituent present at OSHA thresholds

16) OTHER INFORMATION

NFPA/HMIS		CODE TRANSLATION
Health	2	Moderate Hazard
Fire	1	Slight Hazard
Reactivity	0	Minimal Hazard
Special	NONE	No special Hazard
(1) Protective Equipment	B	Goggles,Gloves

(1) refer to section 8 of MSDS for additional protective equipment recommendations.

CHANGE LOG

	EFFECTIVE DATE	REVISIONS TO SECTION:	SUPERCEDES
MSDS status:	08-NOV-1995		** NEW **
	26-JUN-1996	2	08-NOV-1995

Attachment 3
Letter from Exelon (M. Kanavos) to IEPA (D. LeCrone)
Regarding Renewal of NPDES Permit No. IL0048321
for Braidwood Generating Station (2/29/2012)

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

COPY

February 29, 2012
BW120017

Mr. Darin LeCrone
Manager, Industrial Permits Section
Illinois Environmental Protection Agency
Water Pollution Control, Permit Section #15
1021 North Grand Avenue East
Springfield, IL 62794-9276

048321

Subject: Renewal of NPDES Permit No. IL0048151
Braidwood Generating Station

3/5/12 Corrected via phone ~~Darin LeCrone~~ Roger (Records - IEPA)

Dear Mr. LeCrone:

As a follow-up to the January 23, 2012 meeting with Agency personnel in Springfield regarding the NPDES Permit renewal for Braidwood Station, Exelon Nuclear Generation, Braidwood Nuclear Generating Station, would like to submit the attached list of documents that reflect changes/modifications made to the site NPDES Permit since the last draft permit was issued on February 29, 2000. All of these changes/modifications to the existing permit have been previously approved by the Agency and are being provided to the Agency to bring the NPDES permit renewal package that was submitted in February 2000 up to date.

We respectfully request that these changes be incorporated into the new NPDES Permit when it is issued. If you have any questions/comments, please direct them to either Christina Xydis at (815) 417-3851 or John Petro at (630) 657-3209.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Nuclear Station

Attachment

Attachment to Darin LeCrone Letter Dated 2/23/2012

Below is a list of documents that reflect requests for changes to the existing NPDES permit for Braidwood Generating Station. These changes were requested after the NPDES permit renewal package was submitted in February 2000. This list will serve to update the NPDES permit renewal application package submitted in 2000 with items requested and approved by the Agency since that time. All requests listed below are on file at Exelon as well as with the Agency.

2/29/2000	NPDES permit renewal package.
7/20/2000	Proposed permit administrative change to Special Condition #10.
10/19/2000	Request for approval for Betz-Dearborn Spectrus CT1300.
8/8/2001	Approval from IEPA to construct a CO_2 injection system. Permit No. 2001-EN 4055.
11/14/2001	Raw Water chemical approval request letter for Betz-Dearborn products.
4/1/2002	Request to add sulfuric acid to the Cooling Pond.
7/10/2002	Request to increase blowdown flow via booster pumps.
9/3/2002	Construction permit application for dechlorination system.
6/6/2003	Request for approval for Betz-Dearborn AZ 8104.
2/13/2004	Notice to resume sulfuric acid addition to the Cooling Pond.
3/24/2004	Request to increase blowdown flow.
1/21/2005	Chemical approval request to change chemical vendor to Nalco.
8/24/2005	Request to add zinc acetate to RCS.
12/1/2006	Upgrade of the sulfuric acid system for the Cooling Pond to add Tanks.
10/28/2009	Application for the Diffuser project.
11/6/2009	Request letter to change water supply from the Kankakee River to an on-site deep well. Construction permit application.
2/4/2011	Power Uprate Study.

Braidwood Environmental Audit – Request for Additional Information Response

Question #: SW-13 Category: Surface Water

Statement of Question:

As observed and discussed with Exelon staff during the site audit, provide a brief description of the plant water treatment upgrades being implemented at the lake screen house and how they relate to Braidwood's Lake Chemistry Strategic Plan. Specifically, address whether and how the quality of water in the cooling pond would be modified as a result of the upgrades. Identify the approximate start date(s) of the construction and when the project(s) is scheduled for completion and commissioning to support plant operations.

Response:

Physical upgrades to the Braidwood Station water treatment system were completed in December 2013. The purpose of the upgrades was to eliminate potential personnel hazards that could occur if there was a chemical spill. The upgrades provided separation of incompatible chemicals by replacing one chemical feed building with two buildings. The incompatible chemicals are now pumped from separate chemical feed buildings. The same chemicals are being used now as were used before the water treatment system upgrades, and there have been no changes to the Braidwood Lake Chemistry Strategic Plan and or to lake water quality.

List Attachments Provided:

None.

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-1 Category: Meteorology, Air Quality, and Noise

Statement of Question:

Provide the copy of the Braidwood Station Units 1 and 2 (Braidwood) Federally Enforceable State Operating Permit for stationary emission sources provided at the site audit. Indicate whether correspondence more recent than October 29, 2007, is available regarding the status of this permit, and include as applicable.

Response:

The requested Federally Enforceable State Operating Permit, ID No. 197816AAB is attached. No correspondence with the Illinois Environmental Protection Agency Bureau of Air, Permit Section concerning the renewal application, which was filed on October 30, 2006, has occurred since October 29, 2007.

List Attachments Provided:

1. Federally Enforceable State Operating Permit, ID No. 197816AAB, Expiration Date: April 29, 2007

217/782-2113

FEDERALLY ENFORCEABLE STATE OPERATING PERMIT

PERMITTEE

Exelon Generation Company, LLC
Attn: Terry Steinert
1411 Opus Place, Suite 250
Downers Grove, Illinois 60515

Application No.: 79020011 I.D. No.: 197816AAB
Applicant's Designation: BRAIDFESOP Date Received: May 29, 2001
Subject: Diesel Generators and Boilers
Date Issued: April 29, 2002 Expiration Date: April 29, 2007
Location: Braidwood Nuclear Station, 35100 Route 53, Braceville, Will County

This permit is hereby granted to the above-designated Permittee to OPERATE emission source(s) and/or air pollution control equipment consisting of support equipment for the Braidwood Nuclear Power Station, including four (4)-large diesel engine generators (58.18 mmBtu/hr each), various smaller diesel engines (used for electric generation or pumping water)*, two (2)-auxiliary boilers (93.0 mmBtu/hr each), two (2)-gasoline storage and dispensing facilities with vapor balance systems, and one (1)-Rad Waste Volume Reduction System (RWVRS) pursuant to the above-referenced application. This Permit is subject to standard conditions attached hereto and the following special condition(s):

* This permit does not address emergency engines maintained at the source by the Illinois Department of Nuclear Safety.

1a. This Federally Enforceable State Operating Permit (FESOP) is issued to limit the emissions of air pollutants from all the emission units combined, as listed in the above paragraph to less than major source thresholds, for example, less than 100 tons per year of nitrogen oxide (NO_x), as further described in Attachment A. As a result, the source is excluded from requirements to obtain a Clean Air Act Permit Program (CAAPP) permit.

b. Prior to issuance, a draft of this permit has undergone a public notice and comment period.

2a. Total usage of distillate fuel oil for large engines (generators and other engines with a capacity greater than 600 horsepower each) shall not exceed 80,000 gallons per month and 400,000 gallons per year, based on AP-42 emission factors.

b. Total usage of distillate fuel oil for the small engines with a capacity of 600 horsepower each or smaller shall not exceed 2,500 gallons per month and 12,500 gallons per year, based on AP-42 emission factors.

c. Total usage of distillate fuel oil for the boilers shall not exceed 50,000 gallons per month and 150,000 gallons per year, based on AP-42 emission factors.

d. Operation of the Rad Waste Volume Reduction System (RWVRS) shall not exceed 200 hours per month and 1,512 hours per year, based on information provided in the permit application.

e. Annual throughput of gasoline through the gasoline storage tanks shall not exceed 50,000 gallons.

f. Compliance with annual limits shall be determined from a running total of twelve months of data.

3a. Each gasoline storage tank shall be equipped as follows:

i. The tank shall be equipped with a submerged loading pipe [35 IAC 218.583(a)(1)]; and

ii. All tank vent pipes shall be equipped with pressure/vacuum relief valves with the valves set to resist a pressure of at least 3.5 inches water column and to resist a vacuum of no less than 6.0 inches water column [35 IAC 218.583(a)(3)].

b. Pursuant to 35 IAC 218.583(a), gasoline shall not be transferred from a delivery vessel into a gasoline storage tank unless:

i. The vapors displaced from the tank during filling are processed by a vapor collection system (Stage I vapor recovery system) that prevents:

A. Vapor leaks, as shown by a reading equal to or greater than 100 percent of the LEL (measured as propane) when tested in accordance with the procedure described in EPA 450/2-78-051 Appendix B [35 IAC 218.583(a)(2)(A) and (d)(4)(A)]; and

B. Avoidable leaks of liquid [35 IAC 218.583(a)(2)(A) and (d)(4)(B)].

ii. The delivery vessel displays the appropriate sticker pursuant to the requirements of 35 IAC 218.584(b) or (d) [35 IAC 218.583(a)(2)(C)].

iii. Testing of pressure/vacuum relief valves has been performed as specified by Condition 3(e) below [35 IAC 218.583(a)(4)].

c. Pursuant to 35 IAC 218.583(c), the Permittee shall, with respect to the Stage I vapor recovery system on the gasoline storage tanks:

i. Provide instructions to the personnel operating the facility describing necessary maintenance operations and procedures for

prompt notification of the Permittee in case of any malfunction of a vapor control system [35 IAC 218.583(c)(2)]; and

ii. Repair, replace or modify any worn out or malfunctioning component or element of design of the facility [35 IAC 218.583(c)(3)].

d. Pursuant to 35 IAC 218.583(d), personnel operating the gasoline dispensing facility shall, with respect to the Stage I vapor recovery system:

i. Maintain and operate the vapor control system in accordance with the Permittee's instructions [35 IAC 218.583(d)(1)];

ii. Promptly notify the Permittee of any scheduled maintenance or malfunction requiring replacement or repair of a major component of a vapor control system [35 IAC 218.583(d)(2)];

iii. Maintain gauges, meters or other specified testing devices in proper working order [35 IAC 218.583(d)(3)]; and

iv. Operate the vapor collection system, including delivery vessel unloading points, in a manner that prevents leaks as required by Condition 3(b)(i) above [35 IAC 218.583(d)(4)(A) and (B)].

e. Pursuant to 35 IAC 218.583(a)(4), within 30 days of initial startup of each gasoline storage tank and at least annually thereafter, and within 30 days after replacement of a pressure/vacuum relief valve, the Permittee shall test the relief valves on the tank for compliance with the requirements in Condition 3(a)(ii) [35 IAC 218.583(a)(3)(A)] by measuring and recording the pressure indicated by a pressure/vacuum gauge at each tank vent pipe. The test shall be performed on each tank vent pipe within two hours after product delivery into the respective tank. For manifold tank vent systems, observations at any point within the system shall be adequate.

f. Pursuant to 35 IAC 218.583(d)(5), within 15 business days after discovery of a leak in the vapor collection system on a gasoline storage tank that exceeds the limit of Condition 3(b)(i)(A) [35 IAC 218.583(d)(4)(A)], the Permittee shall repair and then retest the vapor collection system to show compliance.

4. Emissions of volatile organic material (VOM) from storage and handling of gasoline shall not exceed 2.0 ton per year. This limit is based on standard USEPA emission factors for breathing and working losses and information provided in the permit application.

5. The emissions of Hazardous Air Pollutants (HAPs) as listed in Section 112(b) of the Clean Air Act shall not equal or exceed 10 tons per year of any single HAP or 25 tons per year of any combination of such HAPs, or such lesser quantity as USEPA may establish in rule which would require the Permittee to obtain a CAAPP permit from the Illinois EPA.

As a result of this condition, this permit is issued based on the emissions of any HAP from this source not triggering the requirement to obtain a CAAPP permit from the Illinois EPA.

6. At all times, the Permittee shall to the extent practicable, maintain and operate the above referenced emission sources, in a manner consistent with good air pollution control practice for minimizing emissions.

7a. Organic liquid by-products or waste materials shall not be used in these fuel combustion emission sources without written approval from the Illinois EPA.

b. At the above location, the Permittee shall not keep, store, or utilize:

i. Distillate fuel oil (Grades No. 1 and 2) with a sulfur content greater than the larger of the following two values:

A. 0.28 weight percent, or

B. The wt. percent given by the formula: Maximum wt. percent sulfur = (0.000015) x (Gross heating value of oil, Btu/lb).

c. The Illinois EPA shall be allowed to sample all fuels stored at the above location.

8. The Permittee shall maintain records of the following items:

a. Fuel usage for the large engines (generators and other engines with a capacity greater than 600 horsepower) and for the boilers, (gallons/month and gallons/year).

b. Documentation for sulfur content of fuel oil, e.g., analysis results of representative fuel samples or copies of fuel supplier certifications.

c. The Permittee shall maintain the following records for each gasoline storage dispensing facility, including associated gasoline storage tanks:

i. A logbook or other record that identifies each shipment of gasoline added to each tank, with date and amount;

ii. A logbook or other record of each inspection of the tanks and dispensing facilities to verify proper operation, with date and responsible individual;

iii. Maintenance and repair records, as related to the repair or replacement of the Vapor Recovery Systems and storage tank loading pipes;

iv. Records of testing performed pursuant to Condition 3(e) that include the company or entity that performed each test, the operating conditions existing at the time of each test, the dates, times and locations of each measurement, each analytical techniques or methods used, and each measurement result; and

v. The combined gasoline throughput of the storage tanks, (gallons/month and gallons/year).

9. All records and logs required by this permit shall be retained at a readily accessible location at the source for at least three years from the date of entry and shall be made available for inspection and copying by the Illinois EPA or USEPA upon request. Any records retained in an electronic format (e.g., computer) shall be capable of being retrieved and printed on paper during normal source office hours so as to be able to respond to an Illinois EPA request for records during the course of a source inspection.

10a. The Permittee shall submit an Annual Emissions Statement to the Agency by May 1st of each year. This report shall include the fuel oil consumption by the large diesel engines (generators and pumps greater than 600 horsepower), the other engines, and the boilers. If there has been no exceedance during the prior year, the Annual Emissions Statement shall include a statement to that effect.

b. If there is an exceedance of the requirements of this permit, as determined by the records required by this permit or by other means, the Permittee shall submit a report to the Illinois EPA's Compliance Section in Springfield, Illinois within 30 days after the exceedance. The report shall include the emissions released in accordance with the recordkeeping requirements, a copy of the relevant records, a description of the exceedance and efforts to reduce emissions and future occurrences.

11. Two (2) copies of required reports and notifications concerning equipment operation or repairs, performance testing or a continuous monitoring system shall be sent to:

Illinois Environmental Protection Agency
Division of Air Pollution Control
Compliance Section (#40)
P.O. Box 19276
Springfield, Illinois 62794-9276
Telephone: 217/782-5811 Facsimile: 217/782-6348

and one (1) copy shall be sent to the Illinois EPA's regional office at the following address unless otherwise indicated:

Illinois Environmental Protection Agency
Division of Air Pollution Control
9511 West Harrison
Des Plaines, Illinois 60016
Telephone: 847/294-4000 Facsimile: 847/294-4018

If you have any questions concerning this permit, please call Youra Benofamil at 217/782-2113.

Donald E. Sutton, P. E.
Manager, Permit Section
Division of Air Pollution Control

DES:YB:jar

cc: Region 1
Illinois EPA, FOS, CMU
Lotus Notes

I.D. No.: 197816AAB
Application No.: 79020011
Facility: Braidwood Nuclear Power Station

Attachment A

This attachment provides a summary of the maximum emissions from the source operating in compliance with the requirements of this federally enforceable permit. In preparing this summary, the Illinois EPA used the annual operating scenario that results in maximum emissions from this source. This is handling 572,500 gallons of distillate fuel oil. The resulting maximum emissions are well below the levels, e.g., 100 tons per year of NO_x at which this source would be considered a major source for purposes of the Clean Air Act Permit Program. Actual emissions from this source will be less than predicted in this summary to the extent that less material is handled, and control measures are more effective than required in this permit.

1. Large Diesel Engines (Generators and other engines with a capacity greater than 600 horsepower each):

Limit on Total Fuel Usage: 400,000 Gallons/Year

Pollutant	Emission Rate (Lb/mmBtu)	Emissions (Ton/Yr)
NO_x	3.2	88.26
CO	0.85	23.44
SO_2	1.01 * 0.28 = 0.2828	7.80
VOM	0.09	2.48
PM	0.0697	1.92

These emissions reflect, AP-42 emission factors for internal combustion units, and a conversion factor of 137,903 Btu per gallon of distillate oil.

2. Small Diesel Engines with a capacity of 600 horsepower each or smaller:

Limit on Total Fuel Usage: 12,500 Gallons/Year

Pollutant	Emission Rate (Lb/mmBtu)	Emissions (Tons/Yr)
NO_x	4.41	3.80
CO	0.95	0.82
SO_2	0.29	0.25
VOM	0.36	0.31
PM	0.31	0.27

These emissions reflect AP-42 emission factors for internal combustion units and a conversion factor of 137,903 Btu per gallon of distillate oil.

3. Two Boilers:

Limit on Total Fuel Usage: 150,000 Gallons/Year

Pollutant	Emission Rate (Lb/1,000 Gal)	Emissions (Ton/Yr)
NO_x	20.0	1.50
CO	5.0	0.38
SO_2	142 * 0.28 = 39.76	2.98
VOM	0.2	0.02
PM	2.0	0.15

These emissions reflect, AP-42 emission factors for distillate fuel oil fired boilers.

4. Rad Waste Volume Reduction System (RWVRS):

Limit on Hours of Operation: 1,512 Hours/Year

Pollutant	Emission Rate (Lb/Hr)	Emissions (Tons/Yr)
NO_x	0.131	0.10
CO	0.980	0.75
SO_2	0.200	0.16
VOM	0.310	0.25

These emissions reflect, emission factors supplied by the Permittee which are based on tests.

5. Gasoline storage and handling:

Limit on Gasoline Throughput: 50,000 gallons/year

2.0 ton VOM per year

This reflects standard USEPA emission factors from Compilation of Air Pollutant Emission Factors, AP-42 for breathing and working losses.

6. Lime Silo: 0.44 ton PM/year (negligible emissions).

YB:jar

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-2 Category: Meteorology, Air Quality, and Noise

Statement of Question:

Provide copies of Braidwood's annual emission reports for the most recent 5 years.

Response:

The requested documents are attached.

List Attachments Provided:

1. 2012 Annual Emission Report for Braidwood Generating Station
2. 2011 Annual Emission Report for Braidwood Generating Station
3. 2010 Annual Emission Report for Braidwood Generating Station
4. 2009 Annual Emission Report for Braidwood Generating Station
5. 2008 Annual Emission Report for Braidwood Generating Station

BO 4/29/13

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW130044 Origination Date: 4/30/13

Agency/External Stakeholder: IEPA Submittal Due Date: 5/1/2013

Recipient of Correspondence: IEPA, Division of Air Pollution Control
(name and title if known)

Purpose of Submittal: 2012 Annual Emissions Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: Brittney O'Connor *(print)* *(sign)* 4/29/2013 *(date)*

Peer Reviewer: Christina Xidis *(print)* *(sign)* 4/30/13 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☑	4/30/13		4/30/13
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☑	4/30/13	☑ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation.

Exelon Generation Company, LLC

Braidwood Nuclear Power Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

April 30, 2013
BW130044

Illinois Environmental Protection Agency
Division of Air Pollution Control
Air Quality Planning Section (#39)
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: 2012 Annual Emissions Report

Per requirements of 35 Illinois Administrative Code Part 254, Exelon hereby submits the 2012 Annual Emissions Report for the Braidwood Nuclear Generating Station, ID NO.197816AAB. Included in the Annual Emissions Report are the following:

1. Annual Source Emissions Summary
2. Annual Source Emissions Forms

Also included for your information and use is a spreadsheet summarizing each point, control, stack, reportable emissions, and fuel consumed. There were no exceedances for this reporting period.

If you have any questions or comments please contact Christina Xydis of my staff at (815) 417-3851.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

Enclosures

Illinois Environmental Protection Agency
Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2012

197816AAB - Exelon Generation Co LLC

- SOURCE DATA -

SOURCE IDS AND LOCATION

AIRS:	17-197-0196	IEPA USE ONLY	SIC 1:	4911		NAICS 1:	221112
FINDS:	ILD984800003	IEPA USE ONLY	SIC 2:			NAICS 2:	
FEIN:	360938600		SIC 3:			NAICS 3:	
D&B:	0006929509		SIC 4:			NAICS 4:	
LATITUDE:	41:14:37.3632		SIC 5:			NAICS 5:	
LONGITUDE:	88:13:44.6160		SIC 6:			NAICS 6:	

SOURCE ADDRESS

Exelon Generation Co LLC
Rte 53 E
Braceville, IL 60407

CONTACT: Christina Xydis
PHONE: 815-417-3851 EXT:
FAX: 815-417-3999
E-MAIL: christina.xydis@exeloncorp.com

ANNUAL EMISSION REPORT MAILING ADDRESS

Exelon-Braidwood Generating Station
35100 S Rte 53 Ste 84
Braceville, IL 60407

CONTACT: Christina Xydis
PHONE: 815-417-3851 EXT:
FAX: 815-417-3999
E-MAIL: christina.xydis@exeloncorp.com

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

[signature] — AUTHORIZED SIGNATURE

05/01/2013 — DATE

Mark E. Kanavos Plant Manager — TYPED OR PRINTED NAME AND TITLE

815-417-3700 — TELEPHONE NUMBER

The Illinois EPA is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Code 201.302(a, b) and 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/24-45.

197816AAB - Exelon Generation Co LLC

- ANNUAL SOURCE EMISSIONS -

POLLUTANT CODE	SOURCES REPORTED EMISSIONS FOR 2012 (TONS/YEAR)	ALLOWABLE EMISSIONS (TONS/YEAR)	EMISSIONS REPORTED FOR 2011 (TONS/YEAR)	IEPA 2012 ESTIMATED EMISSIONS (TONS/YEAR)
CO	5.7334	25.354560	5.675200	0.248229
CO2	1109.8085	28,146.343680	1,131.912000	277.096342
METHANE	0.0002	0.020966	0.000000	0.000002
N2O	0.0001	0.008299	0.000000	0.000001
NH3	0.0396	0.987168	0.039900	0.009734
NOX	21.6142	93.632767	21.394500	0.935265
PART	0.4793	2.779358	0.473400	0.020847
PM10	0.3955	2.704447	0.391100	0.020839
PM2.5	0.3836	2.245152	0.379800	0.020786
SO2	0.1131	11.232816	0.110600	0.083562
VOM	0.6300	5.046149	0.623600	2.027440

197816AAB - Exelon Generation Co LLC

- PERMIT LISTING -

PERMIT NUMBER	TYPE OF PERMIT	OPERATION NAME	STATUS	STATUS DATE	EXPIRES
79020011	FESOP	DIESEL GENERATORS AND BOILERS	GRANTED	04-29-2002	04-29-2007

Braidwood Generating Station
2012 Annual Emissions Inventory Report

Summary of Points, Controls & Stacks

Point #	Point Description	Control #	Control Description	Stack #	EMISSIONS TONS/YEAR											
					CO	CO_2	Methane	N_2O	NO_x	PART	$PM_{2.5}$	PM_{10}	SO_2	VOM	NH_3	LEAD
0001	4 Large Diesel Engine Generators	N/A	N/A	0001	5.5970	1084.0858	N/A	N/A	21.0712	0.4590	0.3661	0.3773	0.0998	0.5926	0.0384	N/A
0002	2 Auxiliary Boilers	N/A	N/A	0002	0.0035	1.5486	0.0002	0.0001	0.0139	0.0014	0.0002	0.0007	0.0015	0.0001	0.0006	N/A
0014	Small Diesel Engines (600hp or less)	N/A	N/A	0014	0.0329	5.5078	N/A	N/A	0.1529	0.0108	0.0108	0.0108	0.0101	0.0125	N/A	N/A
0008	Lime Silo	0001	Bag Filter	0003	N/A	N/A	N/A	N/A	N/A	0.0000	N/A	0.0000	N/A	N/A	N/A	N/A
0009	Rad Waste Volume Reduction System	0002	Gas Solid Separator		0.0000	0.0000	0.0000	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0003	Venturi Scrubber		0.0000	0.0000	0.0000	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0004	Hepa Filter		0.0000	0.0000	0.0000	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0005	Activate Charcoal Bed	0004	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0013	2@2000 Gasoline Storage Tanks	"A"	Vapor Recovery System	0007	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0142	N/A	N/A
"B"	Auxiliary Feedwater Pump Diesels	N/A	N/A	"C"	0.0999	18.6663	N/A	N/A	0.3761	0.0082	0.0065	0.0067	0.0018	0.0106	0.0007	N/A
				Total	5.7334	1109.8085	0.0002	0.0001	21.6142	0.4793	0.3836	0.3955	0.1131	0.6300	0.0396	0.0000

Source	2012 Fuel Consumption
	1000/Gal
Unit 1 Auxiliary Boiler	0
Unit 2 Auxiliary Boiler	1.389
1 A Diesel Generator	21.708
1 B Diesel Generator	21.235
2 A Diesel Generator	26.084
2 B Diesel Generator	18.383
Auxiliary Feedwater Pump	1.7125
Small Diesel Engines (600hp or less)	0.505

There were no exceedances of the permit requirements in 2012.

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0001 - ~~LARGE DIESEL GENERATOR #1~~ PERMIT: 79020011

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

SCC: 20100102

MODE 01 - DIESEL-FIRED ENGINES

DESCRIPTION CORRECTION: 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS:

DEC - FEB:	17.00	% 28	MAR - MAY:	36.00	% 23
JUN - AUG:	18.00	% 19	SEP - NOV:	29.00	% 29

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1 — 20/21
INPUT (MMBTU/HR): 58.2

HEAT CONTENT: 140000 Btu/gal — 136,831
SULFUR CONTENT (%): 0.05 — < 0.015
ASH CONTENT (%):
NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	6.3	6.17	HOURS/DAY:	4.6	4.77
DAYS/WEEK:	1.0	1.0	DAYS/WEEK:	1.0	1.0
WEEKS/YEAR:	52	52	WEEKS/SEASON:	13	13
HOURS/YEAR:	328	320.8	HOURS/SEASON:	60	62.01
			START TIME:		
			END TIME:		
RATE/HR:	0.2997	0.2991	RATE/HR:	0.2930	0.3024

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0001 - ~~LARGE DIESEL GENERATOR #1~~ 4 Large Diesel Generators PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 _____

CEASED OPERATION: / _____ SCC: 20100102

MODE 01 - DIESEL-FIRED ENGINES

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
CO	3	3	____		.85	0.85	1.34	33.917	34.102
CO2	3	3	____	22600	22600	22600	1507.42	6773.322	6605.245
NH3	3	3	____		.8	0.8	.053	.24	0.2338
NOX	3	3	____		3.2	3.2	5.05	127.689	128.385
PART	3	3	____		.0697	0.0697	.11	2.781	2.796
PM10	3	3	____		.0573	0.0573	.11	2.286	2.299
PM2.5	3	3	____		.0556	0.0556	.11	2.219	2.231
SO2	3	3	____		.015	0.015	.45	.605	0.608
VOM	3	3	____		.09	0.09	.142	3.591	3.611

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED	
NOX	3	3	____	3.2	3.2	3.2	124.812	124.812	137.547
VOM	3	3	____	.09	.09	0.09	3.51	3.51	3.87

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0001 CAPTURE EFFICIENCY: 100.00 %_____

DATE: 4/29/2013

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2012

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION:

CEASED OPERATION: SCC:

MODE 01 - Diesel Fired Engines SIC:

DESCRIPTION CORRECTION:

Diesel Engines > 600 hp

PERCENT THROUGHPUTS: DEC-FEB: 18 % MAR-MAY: 34 %
JUN-AUG: 24 % SEP-NOV: 25 %

BEGAN OPERATION:

CEASED OPERATION:

FUEL TYPE: 20/21

INPUT (MMBTU/HR):

HEAT CONTENT: 136,831

SULFUR CONTENT (%): <0.015

ASH CONTENT (%):

NITROGEN CONTENT (%):

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
UNITS:	1000 Gallons Burned	UNITS:	1000 Gallons Burned
HOURS/DAY:	1.11	HOURS/DAY:	1.05
DAYS/WEEK:	1	DAYS/WEEK:	1
WEEKS/YEAR:	24	WEEKS/SEASON:	6
HOURS/YEAR:	26.7	HOURS/SEASON:	6.3
RATE/HR:	0.0641	START TIME:	
		END TIME:	
		RATE/HR:	0.0439
CONFIDENTIAL:		CONFIDENTIAL:	

IL 532 2218
APC 463 REV. DEC-05

The Illinois EPA is authorized to require and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a) and (b) and Part 254. It is not necessary to use this form in providing the information. Failure to provide the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
CO	3	0.85	7.484
CO2	3	21800#/1000gals	1398.221
NH3	5	0.8#/1000gals	0.051

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CAPTURING STACKS:

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
NOX	3	3.2	28.174
PART	3	0.0697	0.6137
PM10	3	0.0573	0.5045

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____%

CONTROL _____ CAPTURE EFFICIENCY: _____%

CONTROL _____ CAPTURE EFFICIENCY: _____%

CAPTURING STACKS:

STACK _____ CAPTURE EFFICIENCY: _____%

STACK _____ CAPTURE EFFICIENCY: _____%

STACK _____ CAPTURE EFFICIENCY: _____%

- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
PM2.5	3	0.0556	0.4895
SO2	3	0.015	0.1334
VOM	3	0.09	0.7924

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)
NOX	3	3.2	28.174
VOM	3	0.9	0.7924

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CAPTURING STACKS:

STACK C CAPTURE EFFICIENCY: 100 %

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 10100501

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % 0 MAR - MAY: 25.00 % 100
JUN - AUG: 25.00 % 0 SEP - NOV: 25.00 % 0

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1 20/21

INPUT (MMBTU/HR): 186

HEAT CONTENT: 19577 Btu/lb 19,199

SULFUR CONTENT (%): 0.05 < 0.015

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0	16.1	HOURS/DAY:	0.0	0
DAYS/WEEK:	0.0	2.0	DAYS/WEEK:	0.0	0
WEEKS/YEAR:	0	1.0	WEEKS/SEASON:	0	0
HOURS/YEAR:	0	32.3	HOURS/SEASON:	0	0
			START TIME:	00:00	
			END TIME:	23:59	
RATE/HR:	0.0000	0.001	RATE/HR:	0.0000	0

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 _____ SCC: 10100501

CEASED OPERATION: / _____

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA		EMISSION RATE (LB/HR) REPORTED
CO	3	3				.087	0	0.215
CO2	3	3		22300	22300	383.56	0	95.89
METHANE	3	3		.28	0.28	.0048	0	0.012
N2O	3	3		.11	0.11	.0019	0	0.005
NH3	3	3				.014	0	0.034
NOX	3	3				.3434	0	0.860
PART	3	3				.0343	0	0.086
PM10	3	3				.01715	0	0.043
PM2.5	3	3				.012	0	0.011
SO2	3	3				.68	0	0.092
VOM	3	3				.0046	0	0.009

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA		OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX	3	3				0	0	0.000
VOM	3	3				0	0	0.000

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0002 CAPTURE EFFICIENCY: 100.00 %_____

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 20200101

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 28.00 % 30 MAR - MAY: 20.00 % 17
JUN - AUG: 32.00 % 31 SEP - NOV: 20.00 % 22

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

FUEL TYPE: 21 DISTILLATE OIL #2 20/21

INPUT (MMBTU/HR): .2

HEAT CONTENT: 19577 Btu/gal 136,831

SULFUR CONTENT (%): 0.05 <0.015

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.9	0.9	HOURS/DAY:	1.2	1.1
DAYS/WEEK:	1.0	1.0	DAYS/WEEK:	1.0	1.0
WEEKS/YEAR:	24	24	WEEKS/SEASON:	6	6
HOURS/YEAR:	22	20.5	HOURS/SEASON:	7	7.0
			START TIME:		
			END TIME:		
RATE/HR:	0.0237	0.0246	RATE/HR:	0.0237	0.0238

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER) PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 20200101

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
CO	3	3			.95	0.95	.188	3.001	2.995
CO2	3	3		21800	21800	21800	30.52	517.155	500.706
NOX	3	3			4.41	4.41	.87	13.929	13.904
PART	3	3			.31	0.31	.062	.979	0.977
PM10	3	3			.31	0.31	.062	.979	0.977
PM2.5	3	3			.31	0.31	.062	.979	0.977
SO2	3	3			.29	0.29	.057	.916	0.914
VOM	3	3			.36	0.36	.071	1.137	1.135

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED	
NOX	3	3		4.41	4.41	4.41	13.932	13.932	13.431
VOM	3	3		.36	.36	0.36	1.137	1.137	1.096

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0014 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0015 - ~~LARGE DIESEL GENERATOR #3~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

BEGAN OPERATION: / _____ JUN - AUG: 25.00 % SEP - NOV: 25.00 %

CEASED OPERATION: / _____

FUEL TYPE: 20 DISTILLATE OIL #1 _____

INPUT (MMBTU/HR): 58.2 _____

HEAT CONTENT: 140000 Btu/gal _____

SULFUR CONTENT (%): 0.05 _____

ASH CONTENT (%): _____

NITROGEN CONTENT (%): _____

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0	_____	HOURS/DAY:	0.0	_____
DAYS/WEEK:	0.0	_____	DAYS/WEEK:	0.0	_____
WEEKS/YEAR:	0	_____	WEEKS/SEASON:	0	_____
HOURS/YEAR:	0	_____	HOURS/SEASON:	0	_____
			START TIME:		_____
			END TIME:		_____
RATE/HR:	0.0000	_____	RATE/HR:	0.0000	_____

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0015 - ~~LARGE DIESEL GENERATOR #2~~ PERMIT: 79020011

BEGAN OPERATION: /
CEASED OPERATION: /

SCC: 20100102

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			1.34	0
CO2	3	3	22600		1507.42	0
NH3	3	3			.053	0
NOX	3	3			5.05	0
PART	3	3			.11	0
PM10	3	3			.11	0
PM2.5	3	3			.11	0
SO2	3	3			.45	0
VOM	3	3			.142	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX	3	3			0	0
VOM	3	3			0	0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0019 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0016 - ~~LARGE DIESEL GENERATOR #3~~

PERMIT: 79020011

BEGAN OPERATION: /

CEASED OPERATION: /

SCC: 20100102

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001-4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: /

CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1

INPUT (MMBTU/HR): 58.2

HEAT CONTENT: 140000 Btu/gal

SULFUR CONTENT (%): 0.05

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0		HOURS/DAY:	0.0	
DAYS/WEEK:	0.0		DAYS/WEEK:	0.0	
WEEKS/YEAR:	0		WEEKS/SEASON:	0	
HOURS/YEAR:	0		HOURS/SEASON:	0	
			START TIME:		
			END TIME:		
RATE/HR:	0.0000		RATE/HR:	0.0000	

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0016 - ~~LARGE DIESEL GENERATOR #3~~ PERMIT: 79020011

BEGAN OPERATION: / SCC: 20100102

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			1.34	0
CO2	3	3	22600		1507.42	0
NH3	3	3			.053	0
NOX	3	3			5.05	0
PART	3	3			.11	0
PM10	3	3			.11	0
PM2.5	3	3			.11	0
SO2	3	3			.45	0
VOM	3	3			.142	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX	3	3			0	0
VOM	3	3			0	0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0020 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0017 - ~~LARGE DIESEL GENERATOR #4~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

DESCRIPTION CORRECTION: Included in 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: / _____

CEASED OPERATION: / _____

FUEL TYPE: 20 DISTILLATE OIL #1 _____

INPUT (MMBTU/HR): 58.2 _____

HEAT CONTENT: 140000 Btu/gal _____

SULFUR CONTENT (%): 0.05 _____

ASH CONTENT (%): _____

NITROGEN CONTENT (%): _____

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0		HOURS/DAY:	0.0	
DAYS/WEEK:	0.0		DAYS/WEEK:	0.0	
WEEKS/YEAR:	0		WEEKS/SEASON:	0	
HOURS/YEAR:	0		HOURS/SEASON:	0	
			START TIME:		
			END TIME:		
RATE/HR:	0.0000		RATE/HR:	0.0000	

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0017 - ~~LARGE DIESEL GENERATOR #4~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
CO	3	3					1.34	0	
CO2	3	3		22600			1507.42	0	
NH3	3	3					.053	0	
NOX	3	3					5.05	0	
PART	3	3					.11	0	
PM10	3	3					.11	0	
PM2.5	3	3					.11	0	
SO2	3	3					.45	0	
VOM	3	3					.142	0	

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED	
NOX	3	3					0	0	
VOM	3	3					0	0	

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0021 CAPTURE EFFICIENCY: 100.00 %_____

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0008 - LIME SILO

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 30599999

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % 0 MAR - MAY: 25.00 % 0
JUN - AUG: 25.00 % 0 SEP - NOV: 25.00 % 0

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0	0	HOURS/DAY:		0
DAYS/WEEK:	0.0	0	DAYS/WEEK:		0
WEEKS/YEAR:	0	0	WEEKS/SEASON:		0
HOURS/YEAR:	0	0	HOURS/SEASON:		0
			START TIME:	00:00	
PWR (LB/HR):	0.0000		END TIME:	23:59	
			PWR (LB/HR):		
RATE/HR:	0.0000	0	RATE/HR:		0

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0008 - LIME SILO PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 30599999

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
PART	3	3			.1	0 0
PM10	3	3			.1	0 0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED

CAPTURING CONTROLS:

CONTROL 0001 CAPTURE EFFICIENCY: 100.00 %

CAPTURING STACKS:

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0009 - RAD WASTE VOLUME REDUCTION SYSTEM (RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 50300599

MODE 01 -

DESCRIPTION CORRECTION:

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % 0 MAR - MAY: 25.00 % 0
JUN - AUG: 25.00 % 0 SEP - NOV: 25.00 % 0

UNITS: TONS BURNED

UNITS: TONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0	0	HOURS/DAY:	0.0	0
DAYS/WEEK:	0.0	0	DAYS/WEEK:	0.0	0
WEEKS/YEAR:	0	0	WEEKS/SEASON:	0	0
HOURS/YEAR:	0	0	HOURS/SEASON:	0	0
			START TIME:		
PWR (LB/HR):	0.0000	0	END TIME:		
RATE/HR:	0.0000	0	PWR (LB/HR):		
			RATE/HR:	0.0000	0

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0009 - RAD WASTE VOLUME REDUCTION SYSTEM (RWVRS) PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 50300599

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			.98	0
NOX	3	3			.131	0
SO2	3	3			.2	0
VOM	3	3			.31	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX	3	3			0	0
VOM	3	3			0	0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0004 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING PERMIT: 79020011

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

TANK TYPE:

CAPACITY :	2000 gal		TEMPERATURE (F):	60	
DIAMETER (FT):	5.0		ROOF COLOR:	WHITE	
HEIGHT (FT):	12		SHELL COLOR:	WHITE	
LENGTH (FT):			ROOF PAINT CONDITION:	GOOD	
VAPOR SPACE (FT):	1		SHELL PAINT CONDITION:	GOOD	

LOCATION: ABOVE GROUND

SEAL TYPE:

SUPPORT TYPE:

MATERIAL	MWT	VP (psia)	DENSITY	THROUGHPUTS ANNUAL(gallons)	THROUGHPUTS PEAK OZONE(gallons)
Unleaded Gasoline				10,658	2,388

197816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING

PERMIT: 79020011

SCC: 40301007

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 26.50 % 23.8 MAR - MAY: 27.20 % 24.4
JUN - AUG: 25.50 % 22.4 SEP - NOV: 20.80 % 29.4

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

UNITS: 1000 GALLONS THROUGHPUT

ANNUAL OPERATION		
HOURS/DAY:	24.0	24.0
DAYS/WEEK:	7.0	7.0
WEEKS/YEAR:	52	52
HOURS/YEAR:	8,760	8,784
RATE/HR:	2.0000	2.0

UNITS: 1000 GALLONS THROUGHPUT

PEAK OZONE SEASON OPERATION		
HOURS/DAY:	24.0	24.0
DAYS/WEEK:	7.0	7.0
WEEKS/SEASON:	13	13
HOURS/SEASON:	2,208	2208
START TIME:		
END TIME:		
RATE/HR:	2.0000	2.0

197816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING PERMIT: 79020011

SCC: 40301007

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
VOM	3	5			.458	.003	0.003

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED	
VOM	5	5			.003	.003	0.003

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0007 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0001 - LIME SILO BAGHOUSE

PERMIT: 79020011

BEGAN OPERATION: 09 / 1988

CEASED OPERATION: /

CONTROL CODE: 100

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION EFFICIENCY IEPA	ANNUAL OPERATION EFFICIENCY REPORTED	ANNUAL OPERATION METHOD IEPA	ANNUAL OPERATION METHOD REPORTED	PEAK OZONE SEASON OPERATION EFFICIENCY IEPA	PEAK OZONE SEASON OPERATION EFFICIENCY REPORTED	PEAK OZONE SEASON OPERATION METHOD IEPA	PEAK OZONE SEASON OPERATION METHOD REPORTED
PART	99.900							

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0003 CAPTURE EFFICIENCY: 100.00 %

DATE: 4/29/2013

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2012

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0002 - Gas- Solid Separator (RWVRS)
BEGAN OPERATION: 11/1982
CEASED OPERATION:

PERMIT: 79020011
CONTROL CODE: 059

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	PART	EFFICIENCY:	99.9 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0003	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

The Illinois EPA is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

DATE: 4/29/2013

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2012

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0003 - Venturi Scrubber (RWVRS)
BEGAN OPERATION: 11/1982
CEASED OPERATION:

PERMIT: 79020011
CONTROL CODE: 053

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	SO2	EFFICIENCY:	99.8 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0004	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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DATE: 4/29/2013

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2012

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0004 - HEPA Filter (RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 11/1982

CONTROL CODE: 017

CEASED OPERATION:

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	PART	EFFICIENCY:	99.0 %	METHOD:	3
POLLUTANT	PM10	EFFICIENCY:	99.0 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0005	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

Il 532 2223
APC 468 Rev. Dec-95

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DATE: 4/29/2013

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2012

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0005 - Activated Carbon Bed (RWVRS)
BEGAN OPERATION: 11/1982
CEASED OPERATION:

PERMIT: 79020011
CONTROL CODE: 048

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	VOM	EFFICIENCY:	98 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK	0004	CAPTURE EFFICIENCY:	100 %
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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DATE: 4/29/2013

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2012

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL A - Vapor Extractor

PERMIT: 79020011

BEGAN OPERATION: 11/1982

CEASED OPERATION:

CONTROL CODE: 047

DESCRIPTION CORRECTION:

2000 Gallon Gasoline Storage Tanks (2)

REMOVAL EFFICIENCY:

POLLUTANT	VOM	EFFICIENCY:	85-99 %	METHOD:	App
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK	0007	CAPTURE EFFICIENCY:	100 %
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK	DIAMETER (FT)	HEIGHT (FT)	FLOW RATE (ACFM)	TEMPERATURE (F)
0001 - ~~LARGE DIESEL GENERATOR #1~~ 4 Large Diesel Engine Generators	2.80	133	21296	950
0002 - AUXILIARY BOILERS EXHAUST (TWO IDENTICAL STACKS)	3.70	140	34468	515
0003 - LIME SILO BAGHOUSE EXHAUST	0.30	50	350	70
0004 - RADWASTE INCINERATOR	13.40	200	229440	122
0007 - GASOLINE STORAGE TANKS(2)	0.25	12	2	69
0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER)	2.50 05/0.67	25 35/45	16397	368
~~0019 - LARGE DIESEL GENERATOR #2~~ Included in Stack 0001-4 Large Diesel Generators	2.80	133	21296	950
~~0020 - LARGE DIESEL GENERATOR #3~~ Included in Stack 0001-4 Large Diesel Generators	2.80	133	21296	950
~~0021 - LARGE DIESEL GENERATOR #4~~ Included in Stack 0001-4 Large Diesel Generators	2.80	133	21296	950

DATE: 4/29/2013

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2012

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- STACK DATA -

STACK C - Auxiliary Feedwater Pump Diesels (2)
BEGAN OPERATION: 02/1979
CEASED OPERATION:

DESCRIPTION CORRECTION:

DIAMETER (FT): 1.33

HEIGHT (FT): 85

TEMPERATURE (F):

FLOW RATE (ACFM):

VELOCITY (FT/MIN): CALCULATED BY IEPA

LATITUDE (DD:MM:SS): 41:14:37:2480

LONGITUDE (DD:MM:SS): 88:13:44:4000

METHOD:

The Agency is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

RECEIVED
MAY 1 2012
By

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW120045 Origination Date: 4/29/2012

Agency/External Stakeholder: IEPA Submittal Due Date: 5/1/2012

Recipient of Correspondence: IEPA, Division of Air Pollution Control
(name and title if known)

Purpose of Submittal: 2011 Annual Emissions Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Braidwood
(specify)

Preparer: Whitney Kullman *(print)* Whitney Kullman *(sign)* 4/29/2012 *(date)*

Peer Reviewer: Raymond Hall *(print)* *(sign)* 4/29/12 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No Fedex

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☑	4/30/2012		4/30/12
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☑	4/30/2012	☑ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

May 1, 2012
BW120045

Illinois Environmental Protection Agency
Division of Air Pollution Control
Air Quality Planning Section (#39)
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: 2011 Annual Emissions Report

Per requirements of 35 Illinois Administrative Code Part 254, Exelon hereby submits the 2011 Annual Emissions Report for the Braidwood Nuclear Generating Station, ID NO.197816AAB. Included in the Annual Emissions Report are the following:

1. Annual Source Emissions Summary
2. Annual Source Emissions Forms

Also included for your information and use is a spreadsheet summarizing each point, control, stack, reportable emissions, and fuel consumed.

If you have any questions or comments please contact Christina Xydis of my staff at (815) 417-3851.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

Enclosures

Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

Date: 11-29-2011

97816AAB - Exelon Generation Co LLC

- SOURCE DATA -

SOURCE IDS AND LOCATION

AIRS:	17-197-0196	IEPA USE ONLY	SIC 1:	4911		NAICS 1:	221112
FINDS:	ILD984800003	IEPA USE ONLY	SIC 2:			NAICS 2:	
FEIN:	360938600		SIC 3:			NAICS 3:	
D&B:	0006929509		SIC 4:			NAICS 4:	
LATITUDE:	41:14:37.3632		SIC 5:			NAICS 5:	
LONGITUDE:	88:13:44.6160		SIC 6:			NAICS 6:	

SOURCE ADDRESS

Exelon Generation Co LLC

Rte 53 E
Braceville, IL 60407

CONTACT: ~~Raymond Hall~~ Christina Xydis
PHONE: 815-417-~~3203~~ 3851 EXT:
FAX: 815-417-3999
E-MAIL: Christina.Xydis@exeloncorp.com

ANNUAL EMISSION REPORT MAILING ADDRESS

Exelon-Braidwood Generating Station

35100 S Rte 53 Ste 84
Braceville, IL 60407

CONTACT: ~~Raymond Hall~~ Christina Xydis
PHONE: 815-417-~~3203~~ 3851 EXT: ~~2203~~
FAX: 815-417-3999
E-MAIL: Christina.Xydis@exeloncorp.com

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

AUTHORIZED SIGNATURE — DATE: 04/30/2012

Mark E. Kanavos, Plant Manager — TYPED OR PRINTED NAME AND TITLE

815-417-3700 — TELEPHONE NUMBER

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197816AAB - Exelon Generation Co LLC

- ANNUAL SOURCE EMISSIONS -

POLLUTANT CODE	SOURCES REPORTED EMISSIONS FOR 2011 (TONS/YEAR)	ALLOWABLE EMISSIONS (TONS/YEAR)	EMISSIONS REPORTED FOR 2010 (TONS/YEAR)	IEPA 2011 ESTIMATED EMISSIONS (TONS/YEAR)
CO	5.6752	25.354560	5.795700	1.388969
CO2	1131.9116	28,146.343680	1,111.250000	1,097.886532
LEAD	0.0000		0.000000	
METHANE	0.0000	0.020966	0.000000	0.000002
N2O	0.0000	0.008299	0.000000	0.000001
NH3	0.0399	0.987168	0.039600	0.038591
NOX	21.3945	93.632767	21.866800	3.739944
PART	0.4734	2.779358	0.502900	0.517492
PM10	0.3911	2.704447	0.411700	0.517484
PM2.5	0.3798	2.245152	0.392900	0.080681
SO2	0.1106	11.232816	0.085300	0.412487
VOM	0.6236	5.046149	0.647900	2.234804

97816AAB - Exelon Generation Co LLC

- PERMIT LISTING -

ERMIT JMBER	TYPE OF PERMIT	OPERATION NAME	STATUS	STATUS DATE	EXPIRES
9020011	FESOP	DIESEL GENERATORS AND BOILERS	GRANTED	04-29-2002	04-29-2007

Braidwood Generating Station
2011 Annual Emissions Inventory Report

Summary of Points, Controls & Stacks

Point #	Point Description	Control #	Control Description	Stack #	EMISSIONS TONS/YEAR											
					CO	CO_2	Methane	N_2O	NO_x	PART	$PM_{2.5}$	PM_{10}	SO_2	VOM	NH_3	LEAD
0001	4 Large Diesel Engine Generators	N/A	N/A	0001	5.5667	1111.6714	N/A	N/A	20.9569	0.4565	0.3641	0.3753	0.0992	0.5894	0.0394	N/A
0002	2 Auxiliary Boilers	N/A	N/A	0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	N/A
0014	Small Diesel Engines (600hp or less)	N/A	N/A	0014	0.0330	5.6887	N/A	N/A	0.1532	0.0108	0.0108	0.0108	0.0101	0.0125	N/A	N/A
0008	Lime Silo	0001	Bag Filter	0003	N/A	N/A	N/A	N/A	N/A	0.0000	N/A	0.0000	N/A	N/A	N/A	N/A
0009	Rad Waste Volume Reduction System	0002	Gas Solid Separator		0.0000	0.0000	0.0000	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0003	Venturi Scrubber		0.0000	0.0000	0.0000	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0004	Hepa Filter		0.0000	0.0000	0.0000	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0005	Activate Charcoal Bed	0004	0.0000	0.0000	0.0000	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0013	2@2000 Gasoline Storage Tanks	"A"	Vapor Recovery System	0007	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	0.0137	N/A	N/A
"B"	Auxiliary Feedwater Pump Diesels	N/A	N/A	"C"	0.0755	14.5515	N/A	N/A	0.2844	0.0062	0.0049	0.0051	0.0013	0.0080	0.0005	N/A
				Total	5.6752	1131.9116	0.0000	0.0000	21.3945	0.4734	0.3798	0.3911	0.1106	0.6236	0.0399	0.0000

Source	2011 Fuel Consumption
	1000/Gal
Unit 1 Auxiliary Boiler	0
Unit 2 Auxiliary Boiler	0
1 A Diesel Generator	28.717
1 B Diesel Generator	24.888
2 A Diesel Generator	16.953
2 B Diesel Generator	27.82
Auxiliary Feedwater Pump	1.335
Small Diesel Engines (600hp or less)	0.522

There were no exceedances of the permit requirements in 2011.

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0001 - ~~LARGE DIESEL GENERATOR #1~~

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 20100102

MODE 01 - DIESEL-FIRED ENGINES

DESCRIPTION CORRECTION: 4 Large Diesel Engine Generators

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1 20/21

INPUT (MMBTU/HR): 58.2

PERCENT THROUGHPUTS: DEC - FEB: 20.00 % 18 MAR - MAY: 40.00 % 36
JUN - AUG: 20.00 % 18 SEP - NOV: 20.00 % 29

HEAT CONTENT: 140000 Btu/gal 137,627
SULFUR CONTENT (%): 0.05 <0.015
ASH CONTENT (%):
NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	6.3	6.3	HOURS/DAY:	5.0	4.6
DAYS/WEEK:	1.0	1.0	DAYS/WEEK:	1.0	1.0
WEEKS/YEAR:	52	52	WEEKS/SEASON:	13	13
HOURS/YEAR:	326	328.25	HOURS/SEASON:	65	59.9
			START TIME:		
			END TIME:		
RATE/HR:	0.2950	0.2997	RATE/HR:	0.3005	0.2930

Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0001 - ~~LARGE DIESEL GENERATOR #1~~ 4 Large Diesel Engine Generators PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 20100102
CEASED OPERATION: /

MODE 01 - DIESEL-FIRED ENGINES

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
CO	3	3			0.85	1.34	34.679	33.917
CO2	3	0	3	22600	22600	1507.42	6667	6773.322
NH3	3	3			0.8	.053	.236	0.240
NOX	3	3			3.2	5.05	130.555	127.689
PART	3	3			0.0697	.11	2.844	2.781
PM10	3	3			0.0573	.11	2.338	2.286
PM2.5	3	3			0.0556	.11	2.268	2.219
SO2	3	3			0.015	.45	.412	0.605
VOM	3	3			0.09	.142	3.672	3.591

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED	
NOX		3			3.2		133.021	124.812
VOM		3			0.09		3.741	3.510

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0001 CAPTURE EFFICIENCY: 100.00 %

DATE: 4/29/2012

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2011

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

DESCRIPTION CORRECTION:

Diesel Engines > 600 hp

BEGAN OPERATION:

CEASED OPERATION:

PERCENT THROUGHPUTS: DEC-FEB: 18 % MAR-MAY: 34 %
JUN-AUG: 24 % SEP-NOV: 25 %

FUEL TYPE: 20/21

INPUT (MMBTU/HR):

HEAT CONTENT: 137,627

SULFUR CONTENT (%): <0.015

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 Gallons Burned UNITS: 1000 Gallons Burned

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	1.11	HOURS/DAY:	1.05
DAYS/WEEK:	1	DAYS/WEEK:	1
WEEKS/YEAR:	24	WEEKS/SEASON:	6
HOURS/YEAR:	26.7	HOURS/SEASON:	6.3
RATE/HR:	0.0500	START TIME:	
		END TIME:	
		RATE/HR:	0.0500
CONFIDENTIAL:		CONFIDENTIAL:	

IL 532 2218
APC 463 REV. DEC-05

The Illinois EPA is authorized to require and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a) and (b) and Part 254. It is not necessary to use this form in providing the information. Failure to provide the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
CO	3	0.85	5.658
CO2	3	21800#/1000gals	1090.000
NH3	5	0.8#/1000gals	0.040

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CAPTURING STACKS:

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
NOX	3	3.2	21.302
PART	3	0.0697	0.464
PM10	3	0.0573	0.381

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CAPTURING STACKS:

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels **PERMIT:** 79020011

BEGAN OPERATION: 02/1979
CEASED OPERATION:

SCC:
SIC:

MODE 01 - Diesel Fired Engines

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
PM2.5	3	0.0556	0.370
SO2	3	0.015	0.101
VOM	3	0.09	0.599

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)
NOX	3	3.2	21.302
VOM	3	0.9	0.599

CAPTURING CONTROLS:

CONTROL _____ **CAPTURE EFFICIENCY:** _____ %
CONTROL _____ **CAPTURE EFFICIENCY:** _____ %
CONTROL _____ **CAPTURE EFFICIENCY:** _____ %

CAPTURING STACKS:

STACK C **CAPTURE EFFICIENCY:** 100 %
STACK _____ **CAPTURE EFFICIENCY:** _____ %
STACK _____ **CAPTURE EFFICIENCY:** _____ %

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 10100501

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 0.00 % 0 MAR - MAY: 0.00 % 0

BEGAN OPERATION: 02 / 1979 JUN - AUG: 100.00 % 0 SEP - NOV: 0.00 % 0

CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1 20|21

INPUT (MMBTU/HR): 186

HEAT CONTENT: 19577 Btu/lb 18,621

SULFUR CONTENT (%): 0.05 <0.015

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	16.2	0	HOURS/DAY:	16.2	0
DAYS/WEEK:	2.0	0	DAYS/WEEK:	2.0	0
WEEKS/YEAR:	1	0	WEEKS/SEASON:	1	0
HOURS/YEAR:	33	0	HOURS/SEASON:	33	0
			START TIME:	00:00	
			END TIME:	23:59	
RATE/HR:	0.0430	0.0000	RATE/HR:	0.0430	0.0000

Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 10100501
CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
CO	3	3			5		.087	.215	0
CO2	3	0	3	22300		22300	383.56	958.9	0
METHANE	3	0	3	.28		0.28	.0048	.012	0
N2O	3	0	3	.11		0.11	.0019	.0047	0
NH3	3	3			.8		.014	.034	0
NOX	3	3			20		.3434	.86	0
PART	3	3			2		.0343	.086	0
PM10	3	3			1		.01715	.043	0
PM2.5	3	3			.25		.012	.011	0
SO2	3	3			1.42		.68	.061	0
VOM	3	3			.2		.0046	.009	0

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED	
NOX		3			20			.86	0
VOM		3			.2			.009	0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0002 CAPTURE EFFICIENCY: 100.00 %

Illinois Environmental Protection Agency
Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 20200101

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 13.00 % 29 MAR - MAY: 22.00 % 20
JUN - AUG: 37.00 % 32 SEP - NOV: 28.00 % 20

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

FUEL TYPE: 21 DISTILLATE OIL #2 20/21

INPUT (MMBTU/HR): .2

HEAT CONTENT: 19577 Btu/gal 137,627
SULFUR CONTENT (%): 0.05 <0.015
ASH CONTENT (%):
NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	1.4	0.9	HOURS/DAY:	1.9	1.2
DAYS/WEEK:	1.0	1.0	DAYS/WEEK:	1.0	1.0
WEEKS/YEAR:	24	24	WEEKS/SEASON:	6	6
HOURS/YEAR:	33	22	HOURS/SEASON:	11	7.0
			START TIME:		
			END TIME:		
RATE/HR:	0.0242	0.0237	RATE/HR:	0.0262	0.0237

Environmental Protection Agency
Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

Date: 11-29-2011

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 20200101

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			0.95	.188	3.179 3.001
CO2	3	0	3	21800	21800	30.52	527.56 517.155
NOX	3	3			4.41	.87	14.756 13.929
PART	3	3			0.31	.062	1.037 0.979
PM10	3	3			0.31	.062	1.037 0.979
PM2.5	3	3			0.31	.062	1.037 0.979
SO2	3	3			0.29	.057	.97 0.916
VOM	3	3			0.36	.071	1.204 1.137

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX		3			4.41	15.998	13.932
VOM		3			0.36	1.305	1.137

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0014 CAPTURE EFFICIENCY: 100.00 %

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0015 - ~~LARGE DIESEL GENERATOR #2~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: / _____

CEASED OPERATION: / _____

FUEL TYPE: 20 DISTILLATE OIL #1 _____

INPUT (MMBTU/HR): 58.2 _____

HEAT CONTENT: 140000 Btu/gal _____

SULFUR CONTENT (%): 0.05 _____

ASH CONTENT (%): _____

NITROGEN CONTENT (%): _____

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0	_____	HOURS/DAY:	0.0	_____
DAYS/WEEK:	0.0	_____	DAYS/WEEK:	0.0	_____
WEEKS/YEAR:	0	_____	WEEKS/SEASON:	0	_____
HOURS/YEAR:	0	_____	HOURS/SEASON:	0	_____
			START TIME:		_____
			END TIME:		_____
RATE/HR:	0.0000	_____	RATE/HR:	0.0000	_____

Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0015 - ~~LARGE DIESEL GENERATOR #2~~ PERMIT: 79020011

BEGAN OPERATION: / SCC: 20100102

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			1.34	0
CO2	3	3	22600		1507.42	0
NH3	3	3			.053	0
NOX	3	3			5.05	0
PART	3	3			.11	0
PM10	3	3			.11	0
PM2.5	3	3			.11	0
SO2	3	3			.45	0
VOM	3	3			.142	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX		3				0
VOM		3				0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0019 CAPTURE EFFICIENCY: 100.00 %

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0016 - ~~LARGE DIESEL GENERATOR #3~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %
JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: / _____

CEASED OPERATION: / _____

FUEL TYPE: 20 DISTILLATE OIL #1 _____

INPUT (MMBTU/HR): 58.2 _____

HEAT CONTENT: 140000 Btu/gal _____
SULFUR CONTENT (%): 0.05 _____
ASH CONTENT (%): _____
NITROGEN CONTENT (%): _____

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0	_____	HOURS/DAY:	0.0	_____
DAYS/WEEK:	0.0	_____	DAYS/WEEK:	0.0	_____
WEEKS/YEAR:	0	_____	WEEKS/SEASON:	0	_____
HOURS/YEAR:	0	_____	HOURS/SEASON:	0	_____
			START TIME:		_____
			END TIME:		_____
RATE/HR:	0.0000	_____	RATE/HR:	0.0000	_____

Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0016 - ~~LARGE DIESEL GENERATOR #3~~ PERMIT: 79020011

BEGAN OPERATION: / SCC: 20100102

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			1.34	0
CO2	3	3	22600		1507.42	0
NH3	3	3			.053	0
NOX	3	3			5.05	0
PART	3	3			.11	0
PM10	3	3			.11	0
PM2.5	3	3			.11	0
SO2	3	3			.45	0
VOM	3	3			.142	0

OZONE SEASON

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
NOX		3				0
VOM		3				0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0020 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0017 - ~~LARGE DIESEL GENERATOR #4~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

DESCRIPTION CORRECTION: Included in 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: / _____

CEASED OPERATION: / _____

FUEL TYPE: 20 DISTILLATE OIL #1 _____

INPUT (MMBTU/HR): 58.2 _____

HEAT CONTENT: 140000 Btu/gal _____

SULFUR CONTENT (%): 0.05 _____

ASH CONTENT (%): _____

NITROGEN CONTENT (%): _____

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0	_____	HOURS/DAY:	0.0	_____
DAYS/WEEK:	0.0	_____	DAYS/WEEK:	0.0	_____
WEEKS/YEAR:	0	_____	WEEKS/SEASON:	0	_____
HOURS/YEAR:	0	_____	HOURS/SEASON:	0	_____
			START TIME:		_____
			END TIME:		_____
RATE/HR:	0.0000	_____	RATE/HR:	0.0000	_____

Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0017 - ~~LARGE DIESEL GENERATOR #4~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			1.34	0
CO2	3	3	22600		1507.42	0
NH3	3	3			.053	0
NOX	3	3			5.05	0
PART	3	3			.11	0
PM10	3	3			.11	0
PM2.5	3	3			.11	0
SO2	3	3			.45	0
VOM	3	3			.142	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX		3				0
VOM		3				0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0021 CAPTURE EFFICIENCY: 100.00 %

97816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0008 - LIME SILO PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 30599999
CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % 0 MAR - MAY: 25.00 % 0
JUN - AUG: 25.00 % 0 SEP - NOV: 25.00 % 0

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

UNITS: TONS PRODUCED UNITS: TONS PRODUCED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	24.0	0	HOURS/DAY:		0
DAYS/WEEK:	7.0	0	DAYS/WEEK:		0
WEEKS/YEAR:	52	0	WEEKS/SEASON:		0
HOURS/YEAR:	8,760	0	HOURS/SEASON:		0
			START TIME:	00:00	
PWR (LB/HR):	15.5000		END TIME:	23:59	
			PWR (LB/HR):		
RATE/HR:	0.0078	0	RATE/HR:		0

Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

97816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0008 - LIME SILO

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 30599999

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
PART	3	3			.1	.0031	0
PM10	3	3			.1	.0015	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED

CAPTURING CONTROLS:

CONTROL 0001 CAPTURE EFFICIENCY: 100.00 %

CAPTURING STACKS:

97816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0009 - RAD WASTE VOLUME REDUCTION SYSTEM (RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 50300599

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %
JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

UNITS: TONS BURNED

UNITS: TONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0		HOURS/DAY:	0.0	
DAYS/WEEK:	0.0		DAYS/WEEK:	0.0	
WEEKS/YEAR:	0		WEEKS/SEASON:	0	
HOURS/YEAR:	0		HOURS/SEASON:	0	
			START TIME:		
PWR (LB/HR):	0.0000		END TIME:		
RATE/HR:	0.0000		PWR (LB/HR):	0.0000	
			RATE/HR:	0.0000	

Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

97816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0009 - RAD WASTE VOLUME REDUCTION SYSTEM (RWVRS) PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 50300599
CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			.98	0 0
NOX	3	3			.131	0 0
SO2	3	3			.2	0 0
VOM	3	3			.31	0 0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX		3				0 0
VOM		3				0 0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0004 CAPTURE EFFICIENCY: 100.00 %

97816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING PERMIT: 79020011

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

TANK TYPE:

CAPACITY :	2000 gal		TEMPERATURE (F):	60	
DIAMETER (FT):	5.0		ROOF COLOR:	WHITE	
HEIGHT (FT):	12		SHELL COLOR:	WHITE	
LENGTH (FT):			ROOF PAINT CONDITION:	GOOD	
VAPOR SPACE (FT):	1		SHELL PAINT CONDITION:	GOOD	

LOCATION: ABOVE GROUND

SEAL TYPE:

SUPPORT TYPE:

MATERIAL	MWT	VP (psia)	DENSITY	THROUGHPUTS ANNUAL(gallons)	THROUGHPUTS PEAK OZONE(gallons)
Unleaded Gasoline				10,281	2626

Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

97816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING

PERMIT: 79020011

SCC: 40301007

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 35.10 %26.4 MAR - MAY: 14.30 %27.2
JUN - AUG: 25.80 %25.5 SEP - NOV: 24.80 %20.8

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

UNITS: 1000 GALLONS THROUGHPUT

UNITS: 1000 GALLONS THROUGHPUT

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	24.0		HOURS/DAY:	24.0	
DAYS/WEEK:	7.0		DAYS/WEEK:	7.0	
WEEKS/YEAR:	52		WEEKS/SEASON:	13	
HOURS/YEAR:	8,760		HOURS/SEASON:	2,208	
			START TIME:		
			END TIME:		
RATE/HR:	0.0017	2.0	RATE/HR:	0.0018	2.0

97816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING PERMIT: 79020011

SCC: 40301007

MODE 01 -

POLLUTANT CODE	METHOD IEPA	REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
VOM	3	5			.458	.005 0.003

POLLUTANT CODE	METHOD IEPA	REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
VOM		5				.005 0.003

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0007 CAPTURE EFFICIENCY: 100.00 %

Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2011

97816AAB - Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0001 - LIME SILO BAGHOUSE PERMIT: 79020011

BEGAN OPERATION: 09 / 1988
CEASED OPERATION: /

CONTROL CODE: 100

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION EFFICIENCY IEPA	ANNUAL OPERATION EFFICIENCY REPORTED	ANNUAL OPERATION METHOD IEPA	ANNUAL OPERATION METHOD REPORTED	PEAK OZONE SEASON OPERATION EFFICIENCY IEPA	PEAK OZONE SEASON OPERATION EFFICIENCY REPORTED	PEAK OZONE SEASON OPERATION METHOD IEPA	PEAK OZONE SEASON OPERATION METHOD REPORTED
PART	99.900							

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0003 CAPTURE EFFICIENCY: 100.00 %

DATE: 4/29/2012

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2011

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0002 - Gas - Solid Separator (RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 11/1982

CONTROL CODE: 059

CEASED OPERATION:

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	PART	EFFICIENCY:	99.9 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0003	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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DATE: 4/29/2012

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2011

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0003 - Venturi Scrubber (RWVRS)

BEGAN OPERATION: 11/1982

CEASED OPERATION:

PERMIT: 79020011

CONTROL CODE: 053

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	SO2	EFFICIENCY:	99.8 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0004	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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DATE: 4/29/2012

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2011

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0004 - HEPA Filter(RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 11/1982

CEASED OPERATION:

CONTROL CODE: 017

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	PART	EFFICIENCY:	99.0 %	METHOD:	3
POLLUTANT	PM10	EFFICIENCY:	99.0 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0005	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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DATE: 4/29/2012

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2011

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0005 - Activated Carbon Bed (RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 11/1982

CONTROL CODE: 048

CEASED OPERATION:

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	VOM	EFFICIENCY:	98 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK	0004	CAPTURE EFFICIENCY:	100 %
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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DATE: 4/29/2012

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2011

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL A - Vapor Extractor

PERMIT: 79020011

BEGAN OPERATION: 11/1999

CEASED OPERATION:

CONTROL CODE: 047

DESCRIPTION CORRECTION:

2000 Gallon Gasoline Storage Tanks (2)

REMOVAL EFFICIENCY:

POLLUTANT	VOM	EFFICIENCY:	85-99 %	METHOD:	App D
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK	0007	CAPTURE EFFICIENCY:	100 %
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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97816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK	DIAMETER (FT)	HEIGHT (FT)	FLOW RATE (ACFM)	TEMPERATURE (F)
0001 - ~~LARGE DIESEL GENERATOR #1~~ 4 Large Diesel Engine Generators	2.80	133	21296	950
0002 - AUXILIARY BOILERS EXHAUST (TWO IDENTICAL STACKS)	3.70	140	34468	515
0003 - LIME SILO BAGHOUSE EXHAUST	0.30	50	350	70
0004 - RADWASTE INCINERATOR	13.40	200	229440	122
0007 - GASOLINE STORAGE TANKS(2)	0.25	12	2	69
0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER)	2.50 05/0.67	25 35/45	16397	368
~~0019~~ ~~LARGE DIESEL GENERATOR #2~~ Included in 0001- 4 Large Diesel Engine Generators	2.80	133	21296	950
~~0020~~ ~~LARGE DIESEL GENERATOR #3~~ Included in 0001- 4 Large Diesel Engine Generators	2.80	133	21296	950
~~0021~~ ~~LARGE DIESEL GENERATOR #4~~ Included in 0001- 4 Large Diesel Engine Generators	2.80	133	21296	950

DATE: 4/29/2012

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2011

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- STACK DATA -

STACK C - Auxiliary Feedwater Pump Diesels (2)

BEGAN OPERATION: 02/1979

CEASED OPERATION:

DESCRIPTION CORRECTION:

DIAMETER (FT): 1.33

HEIGHT (FT): 85

TEMPERATURE (F):

FLOW RATE (ACFM):

VELOCITY (FT/MIN): CALCULATED BY IEPA

LATITUDE (DD:MM:SS): 41:14:37:2480

LONGITUDE (DD:MM:SS): 88:13:44:4000

METHOD:

IL 532 2224
APC 469 Rev. Dec-95

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RECEIVED
APR 29 2011
By

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW110045 Origination Date: 4/27/11

Agency/External Stakeholder: IEPA Submittal Due Date: 5/1/11

Recipient of Correspondence: Division of Air Pollution Control
(name and title if known)

Purpose of Submittal: 2010 Annual Emissions Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Brwd
(specify)

Preparer: Raymond Hall *(print)* *(sign)* 4/28/11 *(date)*

Peer Reviewer: Bob Claes *(print)* Ray Hall for B. Claes *(sign)* 4/28/11 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☐ No

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☑	4/28/11		4/28/11
Operations	☐			
Engineering	☐			
Regulatory Assurance	☐			
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☑	4/29/11	☐ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

April 29, 2011
BW110045

Illinois Environmental Protection Agency
Division of Air Pollution Control
Air Quality Planning Section (#39)
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: 2010 Annual Emissions Report

Per requirements of 35 Illinois Administrative Code Part 254, Exelon hereby submits the 2010 Annual Emissions Report for the Braidwood Nuclear Generating Station, ID NO.197816AAB. Included in the Annual Emissions Report are the following:

1. Annual Source Emissions Summary
2. Annual Source Emissions Forms

Also included for your information and use is a spreadsheet summarizing each point, control, stack, reportable emissions, and fuel consumed.

If you have any questions or comments please contact Raymond Hall of my staff at (815) 417-3203.

Respectfully,

Mark E. Kanavos
Plant Manager
Braidwood Generating Station

Enclosures

DAPC - ANNUAL EMISSIONS REPORT - 2010

197816AAB - Exelon Generation Co LLC

- SOURCE DATA -

SOURCE IDS AND LOCATION

AIRS:	17-197-0196	IEPA USE ONLY	SIC 1:	4911		NAICS 1:	221112
FINDS:	ILD984800003	IEPA USE ONLY	SIC 2:			NAICS 2:	
FEIN:	360938600		SIC 3:			NAICS 3:	
D&B:	0006929509		SIC 4:			NAICS 4:	
LATITUDE:	41:14:37.2480		SIC 5:			NAICS 5:	
LONGITUDE:	88:13:44.4000		SIC 6:			NAICS 6:	

SOURCE ADDRESS

Exelon Generation Co LLC
Rte 53 E
Braceville, IL 60407

CONTACT: Raymond Hall
PHONE: 815-417-3203 EXT:
FAX: 815-417-3999
E-MAIL:

ANNUAL EMISSION REPORT MAILING ADDRESS

Exelon-Braidwood Generating Station
35100 S Rte 53 Ste 84
Braceville, IL 60407

CONTACT: Raymond Hall
PHONE: 815-417-3203 EXT: 3203
FAX: 815-417-3999
E-MAIL:

Any person who knowingly makes a false, fictitious, or fraudulent material statement, orally or in writing, to the Illinois EPA commits a Class 4 felony. A second or subsequent offense after conviction is a Class 3 felony. (415 ILCS 5/44(h))

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

[signature] 04/30/2011
AUTHORIZED SIGNATURE DATE

Mark E. Kanavos, Plant Manager (815) 417-3700

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197816AAB - Exelon Generation Co LLC

- ANNUAL SOURCE EMISSIONS -

POLLUTANT CODE	SOURCES REPORTED EMISSIONS FOR 2010 (TONS/YEAR)	ALLOWABLE EMISSIONS (TONS/YEAR)	EMISSIONS REPORTED FOR 2009 (TONS/YEAR)	IEPA 2010 ESTIMATED EMISSIONS (TONS/YEAR)
CO	5.7957	25.354560	7.191400	1.388969
CO2		28,146.343680	1,361.140000	1,097.886532
LEAD	0.0000		0.000000	
METHANE		0.020966	0.000000	0.000002
N2O		0.008299	0.000000	0.000001
NH3	0.0396	0.987168	0.048700	0.038591
NOX	21.8668	93.632767	27.108400	3.739944
PART	0.5029	2.779358	0.604000	0.517492
PM10	0.4117	2.704447	0.497300	0.517484
PM2.5	0.3929	2.245152	0.480700	0.080681
SO2	0.0853	11.232816	0.062600	0.412487
VOM	0.6479	5.046149	0.789500	2.234804

197816AAB - Exelon Generation Co LLC

- PERMIT LISTING -

PERMIT NUMBER	TYPE OF PERMIT	OPERATION NAME	STATUS	STATUS DATE	EXPIRES
79020011	FESOP	DIESEL GENERATORS AND BOILERS	GRANTED	04-29-2002	04-29-2007

Braidwood Generating Station

2010 Annual Emissions Inventory Report

Summary of Points, Controls & Stacks

Point #	Point Description	Control #	Control Description	Stack #	EMISSIONS TONS/YEAR								
					CO	NOX	PART	PM2.5	PM10	SO2	VOM	NH3	LEAD
0001	4 Large Diesel Engine Generators	N/A	N/A	0001	5.6595	21.3065	0.4641	0.3702	0.3815	0.0672	0.5992	0.0385	N/A
0002	2 Auxiliary Boilers	N/A	N/A	0002	0.0035	0.0140	0.0014	0.0002	0.0007	0.0010	0.0001	0.0008	0.0000
0014	Small Diesel Engines (600hp or less)	N/A	N/A	0014	0.0531	0.2464	0.0173	0.0173	0.0173	0.0162	0.0201	N/A	N/A
0008	Lime Silo	0001	Bag Filter	0003	N/A	N/A	0.0136	N/A	0.0068	N/A	N/A	N/A	N/A
0009	Rad Waste Volume Reduction System	0002	Gas Solid Separator		0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0003	Venturi Scrubber		0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0004	Hepa Filter		0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0005	Activate Charcoal Bed	0004	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0013	2@2000 Gasoline Storage Tanks	"A"	Vapor Recovery System	0007	N/A	N/A	N/A	N/A	N/A	N/A	0.0201	N/A	N/A
"B"	Auxiliary Feedwater Pump Diesels	N/A	N/A	"C"	0.0796	0.2999	0.0065	0.0052	0.0054	0.0009	0.0084	0.0005	N/A
				Total	5.7957	21.8668	0.5029	0.3929	0.4117	0.0853	0.6479	0.0398	0.0000

Source	2010 Fuel Consumption 1000/Gal
Unit 1 Auxiliary Boiler	0
Unit 2 Auxiliary Boiler	1.398
1 A Diesel Generator	22.303
1 B Diesel Generator	18.291
2 A Diesel Generator	29.234
2 B Diesel Generator	26.449
Auxiliary Feedwater Pump	1.354
Small Diesel Engines (600hp or less)	0.808

There were no exceedances of the permit requirements in 2010.

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0001 - LARGE DIESEL GENERATOR ~~#1~~

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 20100102

MODE 01 - DIESEL-FIRED ENGINES

DESCRIPTION CORRECTION: 4 Large Diesel Engine Generators

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

PERCENT THROUGHPUTS:

DEC - FEB:	17.00 %	19	MAR - MAY:	18.00 %	40
JUN - AUG:	41.00 %	20	SEP - NOV:	24.00 %	20

FUEL TYPE: 20 DISTILLATE OIL #1 — 20/21

INPUT (MMBTU/HR): 58.2

HEAT CONTENT: 140000 Btu/gal — 137,871

SULFUR CONTENT (%): 0.05 — 0.010

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	8.6	6.3	HOURS/DAY:	15.1	5.0
DAYS/WEEK:	1.0		DAYS/WEEK:	1.0	
WEEKS/YEAR:	52		WEEKS/SEASON:	13	
HOURS/YEAR:	449	326.4	HOURS/SEASON:	196	65.3
			START TIME:		
			END TIME:		
RATE/HR:	0.2670	0.2950	RATE/HR:	0.2534	0.3005

I97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0001 - ~~LARGE DIESEL GENERATOR #1~~ 4 Large Diesel Engine Generators PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 20100102
CEASED OPERATION: /

MODE 01 - DIESEL-FIRED ENGINES

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
CO	3	3			.85		1.34	31.402	34.679
CO2	3	3		22600			1507.42	6034.2	NA
NH3	3	3			.8		.053	.214	0.236
NOX	3	3			3.2		5.05	118.217	130.555
PART	3	3			.0697		.11	2.575	2.844
PM10	3	3			.0573		.11	2.117	2.338
PM2.5	3	3			.0556		.11	2.054	2.268
SO2	3	3			.006	0.010	.45	.222	0.412
VOM	3	3			.09		.142	3.325	3.672

OZONE SEASON

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
NOX	3	3		3.2	3.2		112.222	112.222	133.021
VOM	3	3		.09	.09		3.156	3.156	3.741

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0001 CAPTURE EFFICIENCY: 100.00 %

DATE: 4/26/2011

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2010

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

DESCRIPTION CORRECTION:

Diesel Engines > 600 hp

BEGAN OPERATION:

CEASED OPERATION:

PERCENT THROUGHPUTS: DEC-FEB: 14 % MAR-MAY: 17 %
JUN-AUG: 22 % SEP-NOV: 47 %

FUEL TYPE: 20/21

INPUT (MMBTU/HR):

HEAT CONTENT: 137,871

SULFUR CONTENT (%): 0.010

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 Gallons Burned

UNITS: 1000 Gallons Burned

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	1.13	HOURS/DAY:	1.00
DAYS/WEEK:	1	DAYS/WEEK:	1
WEEKS/YEAR:	24	WEEKS/SEASON:	6
HOURS/YEAR:	27.1	HOURS/SEASON:	6
RATE/HR:	0.0500	START TIME:	
		END TIME:	
		RATE/HR:	0.0497
CONFIDENTIAL:		CONFIDENTIAL:	

IL 532 2218
APC 463 REV. DEC-05

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- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
CO	3	0.85	5.878
NH3	5	0.8#/1000gals	0.040
NOX	3	3.2	22.131

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____%

CONTROL _____ CAPTURE EFFICIENCY: _____%

CONTROL _____ CAPTURE EFFICIENCY: _____%

CAPTURING STACKS:

STACK _____ CAPTURE EFFICIENCY: _____%

STACK _____ CAPTURE EFFICIENCY: _____%

STACK _____ CAPTURE EFFICIENCY: _____%

- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
PART	3	0.0697	0.482
PM10	3	0.0573	0.396
PM2.5	3	0.0556	0.384

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CAPTURING STACKS:

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
SO2	3	0.010	0.070
VOM	3	0.09	0.622

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)
NOX	3	3.2	21.983
VOM	3	0.09	0.618

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CAPTURING STACKS:

STACK C CAPTURE EFFICIENCY: 100 %

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 10100501

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % 0 MAR - MAY: 25.00 % 0
JUN - AUG: 25.00 % 100 SEP - NOV: 25.00 % 0

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1 20/21

INPUT (MMBTU/HR): 186

HEAT CONTENT: 19577 Btu/lb 19,345

SULFUR CONTENT (%): 0.05 0.010

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0	16.2	HOURS/DAY:	0.0	16.2
DAYS/WEEK:	0.0		DAYS/WEEK:	0.0	
WEEKS/YEAR:	0		WEEKS/SEASON:	0	
HOURS/YEAR:	0	32.5	HOURS/SEASON:	0	32.5
			START TIME:	00:00	
			END TIME:	23:59	
RATE/HR:	0.0000	0.0430	RATE/HR:	0.0000	0.0430

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 10100501

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			5	.087	0 0.215
CO2	3	3		22300		383.56	0
METHANE	3	3		.28		.0048	0
N2O	3	3		.11		.0019	0
NH3	3	3			0.8	.014	0 0.034
NOX	3	3			20	.3434	0 0.860
PART	3	3			2	.0343	0 0.086
PM10	3	3			1	.01715	0 0.043
PM2.5	3	3			0.25	.012	0 0.011
SO2	3	3			1.42	.68	0 0.061
VOM	3	3			0.2	.0046	0 0.009

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX	3	3			20	0	0 0.860
VOM	3	3			0.2	0	0 0.009

CAPTURING CONTROLS:

CAPTURING STACKS:

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 10100501

CEASED OPERATION: /

MODE 01 -

CAPTURING STACKS:

STACK 0002 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 20200101

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 19.00 % 13 MAR - MAY: 45.00 % 22

BEGAN OPERATION: 02 / 1979 JUN - AUG: 13.00 % 37 SEP - NOV: 23.00 % 28

CEASED OPERATION: /

FUEL TYPE: 21 DISTILLATE OIL #2 20/21

INPUT (MMBTU/HR): .2

HEAT CONTENT: 19577 Btu/gal 137,871

SULFUR CONTENT (%): 0.05 0.010

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	1.1	1.4	HOURS/DAY:	0.6	1.9
DAYS/WEEK:	1.0	1	DAYS/WEEK:	1.0	1
WEEKS/YEAR:	24	24	WEEKS/SEASON:	6	6
HOURS/YEAR:	25	33.4	HOURS/SEASON:	4	11.4
			START TIME:		
			END TIME:		
RATE/HR:	0.0237	0.0242	RATE/HR:	0.0223	0.0262

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER) PERMIT: 79020011

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

SCC: 20200101

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
CO	3	3			.95		.188	3.123	3.179
CO2	3	3		21800			30.52	516.66	
NOX	3	3			4.41		.87	14.496	14.756
PART	3	3			.31		.062	1.019	1.037
PM10	3	3			.31		.062	1.019	1.037
PM2.5	3	3			.31		.062	1.019	1.037
SO2	3	3			.29		.057	.953	0.970
VOM	3	3			.36		.071	1.183	1.204

OZONE SEASON

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
NOX	3	3		4.41	4.41		13.304	13.304	15.998
VOM	3	3		.36	.36		1.086	1.086	1.306

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0014 CAPTURE EFFICIENCY: 100.00 %

I97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0016 LARGE DIESEL GENERATOR #2~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

BEGAN OPERATION: / _____ JUN - AUG: 25.00 % SEP - NOV: 25.00 %

CEASED OPERATION: / _____

FUEL TYPE: 20 DISTILLATE OIL #1 _____

INPUT (MMBTU/HR): 58.2 _____

HEAT CONTENT: 140000 Btu/gal _____

SULFUR CONTENT (%): 0.05 _____

ASH CONTENT (%): _____

NITROGEN CONTENT (%): _____

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0	_____	HOURS/DAY:	0.0	_____
DAYS/WEEK:	0.0	_____	DAYS/WEEK:	0.0	_____
WEEKS/YEAR:	0	_____	WEEKS/SEASON:	0	_____
HOURS/YEAR:	0	_____	HOURS/SEASON:	0	_____
			START TIME:		_____
			END TIME:		_____
RATE/HR:	0.0000	_____	RATE/HR:	0.0000	_____

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0016 LARGE DIESEL GENERATOR #2~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			1.34	0
CO2	3	3	22600		1507.42	0
NH3	3	3			.053	0
NOX	3	3			5.05	0
PART	3	3			.11	0
PM10	3	3			.11	0
PM2.5	3	3			.11	0
SO2	3	3			.45	0
VOM	3	3			.142	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX	3	3			0	0
VOM	3	3			0	0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0019 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0016 LARGE DIESEL GENERATOR #3~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

BEGAN OPERATION: / _____ JUN - AUG: 25.00 % SEP - NOV: 25.00 %

CEASED OPERATION: / _____

FUEL TYPE: 20 DISTILLATE OIL #1 _____

INPUT (MMBTU/HR): 58.2 _____

HEAT CONTENT: 140000 Btu/gal _____

SULFUR CONTENT (%): 0.05 _____

ASH CONTENT (%): _____

NITROGEN CONTENT (%): _____

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0	_____	HOURS/DAY:	0.0	_____
DAYS/WEEK:	0.0	_____	DAYS/WEEK:	0.0	_____
WEEKS/YEAR:	0	_____	WEEKS/SEASON:	0	_____
HOURS/YEAR:	0	_____	HOURS/SEASON:	0	_____
			START TIME:		_____
			END TIME:		_____
RATE/HR:	0.0000	_____	RATE/HR:	0.0000	_____

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0016 - LARGE DIESEL GENERATOR #3~~ PERMIT: 79020011

BEGAN OPERATION: / SCC: 20100102

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			1.34	0
CO2	3	3	22600		1507.42	0
NH3	3	3			.053	0
NOX	3	3			5.05	0
PART	3	3			.11	0
PM10	3	3			.11	0
PM2.5	3	3			.11	0
SO2	3	3			.45	0
VOM	3	3			.142	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX	3	3			0	0
VOM	3	3			0	0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0020 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0017 LARGE DIESEL GENERATOR #4~~ PERMIT: 79020011

BEGAN OPERATION: / SCC: 20100102

CEASED OPERATION: /

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

BEGAN OPERATION: / JUN - AUG: 25.00 % SEP - NOV: 25.00 %

CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1

INPUT (MMBTU/HR): 58.2

HEAT CONTENT: 140000 Btu/gal

SULFUR CONTENT (%): 0.05

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0		HOURS/DAY:	0.0	
DAYS/WEEK:	0.0		DAYS/WEEK:	0.0	
WEEKS/YEAR:	0		WEEKS/SEASON:	0	
HOURS/YEAR:	0		HOURS/SEASON:	0	
			START TIME:		
			END TIME:		
RATE/HR:	0.0000		RATE/HR:	0.0000	

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0017 LARGE DIESEL GENERATOR #1~~ PERMIT: 79020011

BEGAN OPERATION: / SCC: 20100102

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			1.34	0
CO2	3	3	22600		1507.42	0
NH3	3	3			.053	0
NOX	3	3			5.05	0
PART	3	3			.11	0
PM10	3	3			.11	0
PM2.5	3	3			.11	0
SO2	3	3			.45	0
VOM	3	3			.142	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX	3	3			0	0
VOM	3	3			0	0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0021 CAPTURE EFFICIENCY: 100.00 %

L97816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0008 - LIME SILO

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 30199998

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %
JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	24.0		HOURS/DAY:		
DAYS/WEEK:	7.0		DAYS/WEEK:		
WEEKS/YEAR:	52		WEEKS/SEASON:		
HOURS/YEAR:	8,760		HOURS/SEASON:		
			START TIME:	00:00	
PWR (LB/HR):	5.3000	15.5251	END TIME:	23:59	
RATE/HR:	0.0026	0.0078	PWR (LB/HR):		15.5251
			RATE/HR:		0.0078

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0008 - LIME SILO

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 30199998

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
PART	3	3	.2		.1	.001 0.0031
PM10	3	3	.1		.1	.0005 0.0015

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED

CAPTURING CONTROLS:

CONTROL 0001 CAPTURE EFFICIENCY: 100.00 %

CAPTURING STACKS:

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0009 - RAD WASTE VOLUME REDUCTION SYSTEM (RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 50300599

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

UNITS: TONS BURNED

UNITS: TONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0		HOURS/DAY:	0.0	
DAYS/WEEK:	0.0		DAYS/WEEK:	0.0	
WEEKS/YEAR:	0		WEEKS/SEASON:	0	
HOURS/YEAR:	0		HOURS/SEASON:	0	
			START TIME:		
PWR (LB/HR):	0.0000		END TIME:		
RATE/HR:	0.0000		PWR (LB/HR):	0.0000	
			RATE/HR:	0.0000	

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0009 - RAD WASTE VOLUME REDUCTION SYSTEM (RWVRS) PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 50300599
CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			.98	0
NOX	3	3			.131	0
SO2	3	3			.2	0
VOM	3	3			.31	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX	3	3			0	0
VOM	3	3			0	0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0004 CAPTURE EFFICIENCY: 100.00 %

I97816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING PERMIT: 79020011

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

TANK TYPE:

CAPACITY :	2000 gal		TEMPERATURE (F):	60	
DIAMETER (FT):	5.0		ROOF COLOR:	WHITE	
HEIGHT (FT):	12		SHELL COLOR:	WHITE	
LENGTH (FT):			ROOF PAINT CONDITION:	GOOD	
VAPOR SPACE (FT):	1		SHELL PAINT CONDITION:	GOOD	

LOCATION: ABOVE GROUND

SEAL TYPE:

SUPPORT TYPE:

MATERIAL	MWT	VP (psia)	DENSITY	THROUGHPUTS ANNUAL (gallons)	THROUGHPUTS PEAK OZONE (gallons)
Unleaded Gasoline				15,109	3,893

197816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING PERMIT: 79020011

SCC: 40301007

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 23.00 % 35.1 MAR - MAY: 22.00 % 14.3
JUN - AUG: 25.10 % 25.8 SEP - NOV: 29.90 % 24.8

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

UNITS: 1000 GALLONS THROUGHPUT

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	24.0		HOURS/DAY:	24.0	
DAYS/WEEK:	7.0		DAYS/WEEK:	7.0	
WEEKS/YEAR:	52		WEEKS/SEASON:	13	
HOURS/YEAR:	8,760		HOURS/SEASON:	2,208	
			START TIME:		
			END TIME:		
RATE/HR:	0.0015	2.0	RATE/HR:	0.0015	2.0

UNITS: 1000 GALLONS THROUGHPUT

197816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING PERMIT: 79020011

SCC: 40301007

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
VOM	3	5			.458	.004 0.005

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
VOM	5	5			.004	.004 0.005

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0007 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0001 - LIME SILO BAGHOUSE PERMIT: 79020011

BEGAN OPERATION: 09 / 1988
CEASED OPERATION: /

CONTROL CODE: 100

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION EFFICIENCY IEPA	ANNUAL OPERATION EFFICIENCY REPORTED	ANNUAL OPERATION METHOD IEPA	ANNUAL OPERATION METHOD REPORTED	PEAK OZONE SEASON OPERATION EFFICIENCY IEPA	PEAK OZONE SEASON OPERATION EFFICIENCY REPORTED	PEAK OZONE SEASON OPERATION METHOD IEPA	PEAK OZONE SEASON OPERATION METHOD REPORTED
PART	99.900							

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0003 CAPTURE EFFICIENCY: 100.00 %

DATE: 4/26/11

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2010

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0002 - Gas - Solid Seperator (RWVRS)
BEGAN OPERATION: 11/1982
CEASED OPERATION:

PERMIT: 79020011
CONTROL CODE: 059

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	PART	EFFICIENCY: 99.9 %	METHOD: 3
POLLUTANT		EFFICIENCY: %	METHOD:
POLLUTANT		EFFICIENCY: %	METHOD:

CAPTURING CONTROLS:

CONTROL	0003	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

The Illinois EPA is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

DATE: 4/26/11

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2010

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0003 - Venturi Scrubber (RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 11/1982

CONTROL CODE: 053

CEASED OPERATION:

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	SO2	EFFICIENCY:	99.8 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0004	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

IL 532 2223
APC 468 Rev. Dec-95

The Illinois EPA is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act. 415 ILCS 5/42-65. This form has been approved by the Forms Management Center.

DATE: 4/26/11

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2010

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0004 - HEPA Filter (RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 11/1982

CONTROL CODE: 017

CEASED OPERATION:

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	PART	EFFICIENCY:	99.0 %	METHOD:	3
POLLUTANT	PM10	EFFICIENCY:	99.0 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0005	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

Il 532 2223
APC 468 Rev. Dec-95

The Illinois EPA is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

DATE: 4/26/11

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2010

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL 0005 - Activated Carbon Bed (RWVRS) PERMIT: 79020011

BEGAN OPERATION: 11/1982 CONTROL CODE: 048

CEASED OPERATION:

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	VOM	EFFICIENCY:	98 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK	0004	CAPTURE EFFICIENCY:	100 %
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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DATE: 4/26/11

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2010

ID NUMBER: 197816AAB NAME: Exelon Generation Co. LLC

- CONTROL DEVICE DATA -

CONTROL A - Vapor Extractor

PERMIT: 79020011

BEGAN OPERATION: 11/1999

CEASED OPERATION:

CONTROL CODE: 047

DESCRIPTION CORRECTION:

2000 Gallon Gasoline Storage Tanks (2)

REMOVAL EFFICIENCY:

POLLUTANT	VOM	EFFICIENCY:	85-99 %	METHOD:	App D
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK	0007	CAPTURE EFFICIENCY:	100 %
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK	DIAMETER (FT)	HEIGHT (FT)	FLOW RATE (ACFM)	TEMPERATURE (F)
	4 Large Diesel Engine Generators			
0001 - ~~LARGE DIESEL GENERATOR #1~~	2.80	133	21296	950
0002 - AUXILIARY BOILERS EXHAUST (TWO IDENTICAL STACKS)	3.70	140	34468	515
0003 - LIME SILO BAGHOUSE EXHAUST	0.30	50	350	70
0004 - RADWASTE INCINERATOR	13.40	200	229440	122
0007 - GASOLINE STORAGE TANKS(2)	0.25	12	2	69
0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER)	2.50 0.5/0.67	25 35/45	16397	368
	Included in stack 0001 - 4 Large Diesel Engine Generators			
0019 - ~~LARGE DIESEL GENERATOR #2~~	2.80	133	21296	950
	Included in stack 0001 - 4 Large Diesel Engine Generators			
0020 - ~~LARGE DIESEL GENERATOR #3~~	2.80	133	21296	950
	Included in stack 0001 - 4 Large Diese Engine Generators			
0021 - ~~LARGE DIESEL GENERATOR #4~~	2.80	133	21296	950

DATE: 4/27/11

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2010

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- STACK DATA -

STACK C - Auxiliary Feedwater Pump Diesels (2)
BEGAN OPERATION: 02/1979
CEASED OPERATION:

DESCRIPTION CORRECTION:

DIAMETER (FT): 1.33

HEIGHT (FT): 85

TEMPERATURE (F):

FLOW RATE (ACFM):

VELOCITY (FT/MIN): CALCULATED BY IEPA

LATITUDE (DD:MM:SS): 41:14:37:2480

LONGITUDE (DD:MM:SS): 88:13:44:4000

METHOD:

The Agency is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

197816AAB - Exelon Generation Co LLC

RECEIVED
APR 30 2010
By

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: _____ Origination Date: 4/28/10

Agency/External Stakeholder: IEPA Submittal Due Date: 5/1/10

Recipient of Correspondence: Division of Air Pollution Control
(name and title if known)

Purpose of Submittal: 2009 Annual Emissions Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Brwd
(specify)

Preparer: Raymond Hall *(print)* _____ *(sign)* 4/28/10 *(date)*

Peer Reviewer: Tim Meents *(print)* _____ *(sign)* 4/28/10 *(date)*

Certified Mail Return Receipt Requested: ☐ Yes ☒ No

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	4/29/10	TK Schuster	4-29-10
Operations	☐			
Engineering	☐			
Regulatory Assurance	☒	4/29/10	[signature]	4/29/10
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	5/30/10	☑ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation Company, LLC
Braidwood Station
35100 South Rt 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon Nuclear

April 30, 2010
BW100046

Illinois Environmental Protection Agency
Division of Air Pollution Control
Air Quality Planning Section (#39)
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: 2009 Annual Emissions Report

Per requirements of 35 Illinois Administrative Code Part 254, Exelon hereby submits the 2009 Annual Emissions Report for the Braidwood Nuclear Generating Station, ID NO.197816AAB. Included in the Annual Emissions Report are the following:

1. Annual Source Emissions Summary
2. Annual Source Emissions Forms

Also included for your information and use is a spreadsheet summarizing each point, control, stack, reportable emissions, and fuel consumed.

If you have any questions or comments please contact Raymond Hall of my staff at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

Enclosures

197816AAB - Exelon Generation Co LLC

- SOURCE DATA -

SOURCE IDS AND LOCATION

AIRS:	17-197-0196	IEPA USE ONLY	SIC 1:	4911		NAICS 1:	221112
FINDS:	ILD984800003	IEPA USE ONLY	SIC 2:			NAICS 2:	
FEIN:	360938600		SIC 3:			NAICS 3:	
D&B:	0006929509		SIC 4:			NAICS 4:	
LATITUDE:	41:14:37.2480		SIC 5:			NAICS 5:	
LONGITUDE:	88:13:44.4000		SIC 6:			NAICS 6:	

SOURCE ADDRESS

Exelon Generation Co LLC

Rte 53 E
Braceville, IL 60407

CONTACT: Raymond Hall
PHONE: 815-417-~~8303~~ 3203 EXT: 3203
FAX: 815-417-3999
EMAIL:

ANNUAL EMISSION REPORT MAILING ADDRESS

Exelon-Braidwood Generating Station

35100 S Rte 53 Ste 84
Braceville, IL 60407

CONTACT: Raymond Hall
PHONE: 815-417-3203 EXT: 3203
FAX: 815-417-3999
E-MAIL:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

AUTHORIZED SIGNATURE — DATE: 4-30-10

Lawrence M. Coyle, Plant Manager — TYPED OR PRINTED NAME AND TITLE

(815) 417-3700 — TELEPHONE NUMBER

Illinois Environmental Protection Agency
Division of Air Pollution Control
DAPC - ANNUAL EMISSIONS REPORT - 2009

K7816AAB - Exelon Generation Co LLC

- ANNUAL SOURCE EMISSIONS -

POLLUTANT CODE	SOURCES REPORTED EMISSIONS FOR 2009 (TONS/YEAR)	ALLOWABLE EMISSIONS (TONS/YEAR)	EMISSIONS REPORTED FOR 2008 (TONS/YEAR)	IEPA 2009 ESTIMATED EMISSIONS (TONS/YEAR)
CO	7.1914	25.354560	6.867200	1.388969
CO2		28,146.343680	1,311.020000	1,097.886532
METHANE		0.020966	0.000000	0.000002
N2O		0.008299	0.000000	0.000001
NH3	0.0487	0.987168	0.046700	0.038591
NOX	27.1084	93.632767	25.882700	3.739944
PART	0.6040	2.779358	0.589400	0.517492
PM10	0.4973	2.704447	0.473700	0.517484
PM2.5	0.4807	2.245152	0.480700	0.080681
SO2	0.0626	11.232816	0.050600	0.412487
VOM	0.7895	5.046149	0.751900	2.234804
Lead	0.0000			

197816AAB - Exelon Generation Co LLC

- PERMIT LISTING -

PERMIT NUMBER	TYPE OF PERMIT	OPERATION NAME	STATUS	STATUS DATE	EXPIRES
79020011	FESOP	DIESEL GENERATORS AND BOILERS	GRANTED	04-29-2002	04-29-2007

Braidwood Generating Station

2009 Annual Emissions Inventory Report

Summary of Points, Controls & Stacks

Point #	Point Description	Control #	Control Description	Stack #	EMISSIONS TONS/YEAR								
					CO	NOX	PART	PM2.5	PM10	SO2	VOM	NH3	LEAD
0001	4 Large Diesel Engine Generators	N/A	N/A	0001	7.0559	26.5635	0.5786	0.4615	0.4756	0.0498	0.7471	0.0480	N/A
0002	2 Auxiliary Boilers	N/A	N/A	0002	0.0000	0.0000	0.0000	0.0000	0.0000	0.0000	0.0001	0.0000	0.0000
0014	Small Diesel Engines (600hp or less)	N/A	N/A	0014	0.0397	0.1841	0.0129	0.0129	0.0129	0.0121	0.0150	N/A	N/A
0008	Lime Silo	0001	Bag Filter	0003	N/A	N/A	0.0046	N/A	0.0023	N/A	N/A	N/A	N/A
0009	Rad Waste Volume Reduction System	0002	Gas Solid Separator		0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0003	Venturi Scrubber		0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0004	Hepa Filter		0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0005	Activate Charcoal Bed	0004	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0013	2@2000 Gasoline Storage Tanks	"A"	Vapor Recovery System	0007	N/A	N/A	N/A	N/A	N/A	N/A	0.0172	N/A	N/A
"B"	Auxiliary Feedwater Pump Diesels	N/A	N/A	"C"	0.0958	0.3608	0.0079	0.0063	0.0065	0.0007	0.0101	0.0007	N/A
				Total	7.1914	27.1084	0.6040	0.4807	0.4973	0.0626	0.7895	0.0487	0.0000

Source	2009 Fuel Consumption 1000/Gal
Unit 1 Auxiliary Boiler	0
Unit 2 Auxiliary Boiler	0
1 A Diesel Generator	29.277
1 B Diesel Generator	35.23
2 A Diesel Generator	27.662
2 B Diesel Generator	27.803
Auxiliary Feedwater Pump	1.63
Small Diesel Engines (600hp or less)	0.603

There were no exceedances of the permit requirements in 2009.

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0001 - LARGE DIESEL GENERATOR ~~#1~~ PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 - DIESEL-FIRED ENGINES

DESCRIPTION CORRECTION: 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 27.00 % 16 MAR - MAY: 26.00 % 18

JUN - AUG: 17.00 % 41 SEP - NOV: 30.00 % 24

BEGAN OPERATION: 02 / 1979 _____

CEASED OPERATION: / _____

FUEL TYPE: 20 DISTILLATE OIL #1 20/21

INPUT (MMBTU/HR): 58.2 _____

HEAT CONTENT: 140000 Btu/gal 137,944

SULFUR CONTENT (%): 0.05 0.006

ASH CONTENT (%): _____

NITROGEN CONTENT (%): _____

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	7.2	8.6	HOURS/DAY:	5.2	15.05
DAYS/WEEK:	1.0		DAYS/WEEK:	1.0	
WEEKS/YEAR:	52		WEEKS/SEASON:	13	
HOURS/YEAR:	373	449.4	HOURS/SEASON:	68	195.7
			START TIME:		
			END TIME:		
RATE/HR:	0.3092	0.2670	RATE/HR:	0.2856	0.2534

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0001 - ~~LARGE DIESEL GENERATOR #1~~ 4 Large Diesel Engine Generators PERMIT: 79020011

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

SCC: 20100102

MODE 01 - DIESEL-FIRED ENGINES

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			0.85	1.34	36.268 31.402
CO2	3	3		22600		1507.42	6987.92 NA
NH3	3	3			0.8 lbs/1000gals	.053	.247 0.214
NOX	3	3			3.2	5.05	136.537 118.217
PART	3	3			0.0697	.11	2.974 2.575
PM10	3	3			0.0573	.11	2.445 2.117
PM2.5	3	3			0.0556	.11	2.372 2.054
SO2	3	3			0.006	.45	.213 0.222
VOM	3	3			0.09	.142	3.84 3.325

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX		3			3.2		126.125 112.222
VOM		3			0.09		3.547 3.156

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0001 CAPTURE EFFICIENCY: 100.00 %

DATE: 4/26/2010

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2009

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION: SCC:

MODE 01 - Diesel Fired Engines SIC:

DESCRIPTION CORRECTION:

Diesel Engines > 600 hp

PERCENT THROUGHPUTS: DEC-FEB: 17 % MAR-MAY: 27 %
JUN-AUG: 21 % SEP-NOV: 35 %

BEGAN OPERATION:

CEASED OPERATION:

FUEL TYPE: 20/21

INPUT (MMBTU/HR):

HEAT CONTENT: 137,944

SULFUR CONTENT (%): 0.006

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 Gallons Burned

UNITS: 1000 Gallons Burned

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	1.36	HOURS/DAY:	1.12
DAYS/WEEK:	1	DAYS/WEEK:	1
WEEKS/YEAR:	24	WEEKS/SEASON:	6
HOURS/YEAR:	32.7	HOURS/SEASON:	6.7
RATE/HR:	0.0498	START TIME:	
		END TIME:	
		RATE/HR:	0.05
CONFIDENTIAL:		CONFIDENTIAL:	

IL 532 2218
APC 463 REV. DEC-05

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- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
CO	3	0.85	5.862
NH3	5	0.8#/1000gals	0.040
NOX	3	3.2	22.068

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CAPTURING STACKS:

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels **PERMIT:** 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines **SIC:**

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
PART	3	0.0697	0.481
PM10	3	0.0573	0.395
PM2.5	3	0.0556	0.383

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)

CAPTURING CONTROLS:

CONTROL _____ **CAPTURE EFFICIENCY:** _____ %

CONTROL _____ **CAPTURE EFFICIENCY:** _____ %

CONTROL _____ **CAPTURE EFFICIENCY:** _____ %

CAPTURING STACKS:

STACK _____ **CAPTURE EFFICIENCY:** _____ %

STACK _____ **CAPTURE EFFICIENCY:** _____ %

STACK _____ **CAPTURE EFFICIENCY:** _____ %

- EMISSION RATE DATA -

POINT B - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION:

SCC:

MODE 01 - Diesel Fired Engines SIC:

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
SO2	3	0.006	0.041
VOM	3	0.09	0.621

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)
NOX	3	3.2	22.142
VOM	3	0.09	0.623

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CAPTURING STACKS:

STACK C CAPTURE EFFICIENCY: 100 %

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

?7816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

?OINT 0002 - 2 AUXILIARY BOILERS

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 10100501

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 0.00 % 0 MAR - MAY: 0.00 % 0

BEGAN OPERATION: 02 / 1979 JUN - AUG: 0.00 % 0 SEP - NOV: 100.00 % 0

CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1 20/21

INPUT (MMBTU/HR): 186

HEAT CONTENT: 19577 Btu/lb 137,944

SULFUR CONTENT (%): 0.05 0.006

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	1.7	0	HOURS/DAY:	0.0	0
DAYS/WEEK:	1.0	0	DAYS/WEEK:	0.0	0
WEEKS/YEAR:	1	0	WEEKS/SEASON:	0	0
HOURS/YEAR:	2	0	HOURS/SEASON:	0	0
			START TIME:	00:00	
			END TIME:	23:59	
RATE/HR:	0.0843	0	RATE/HR:	0.0000	0

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 10100501

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
Lead		3			9			0
CO	3	3			5	.087	.42	0
CO2	3	3		22300		383.56	1879.89	
METHANE	3	3		.28		.0048	.024	
N2O	3	3		.11		.0019	.0093	
NH3	3	3			0.8	.014	.067	0
NOX	3	3			20	.3434	1.682	0
PART	3	3			2	.0343	.168	0
PM10	3	3			1	.01715	.084	0
PM2.5	3	3			0.25	.012	.021	0
SO2	3	3			0.852	.68	.06	0
VOM	3	3			0.2	.0046	.017	0

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED	
NOX		3			20	0		0
VOM		3			.2	0		0

CAPTURING CONTROLS:

CAPTURING STACKS:

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 10100501

CEASED OPERATION: /

MODE 01 -

CAPTURING STACKS:

STACK 0002 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 20200101

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 28.00 % 19 MAR - MAY: 19.00 % 45

BEGAN OPERATION: 02 / 1979 JUN - AUG: 21.00 % 13 SEP - NOV: 32.00 % 23

CEASED OPERATION: /

FUEL TYPE: 21 DISTILLATE OIL #2 20/21

INPUT (MMBTU/HR): .2

HEAT CONTENT: 19577 Btu/gal 137,944

SULFUR CONTENT (%): 0.05 0.006

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.9	1.1	HOURS/DAY:	0.8	0.58
DAYS/WEEK:	1.0	1	DAYS/WEEK:	1.0	1
WEEKS/YEAR:	24	24	WEEKS/SEASON:	6	6
HOURS/YEAR:	23	25.4	HOURS/SEASON:	5	3.5
			START TIME:		
			END TIME:		
RATE/HR:	0.0235	0.0237	RATE/HR:	0.0222	0.0223

W7816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER) PERMIT: 79020011

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

SCC: 20200101

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			0.95	.188	2.998 3.123
CO2	3	3		21800		30.52	512.3
NOX	3	3			4.41	.87	13.916 14.496
PART	3	3			0.31	.062	.978 1.019
PM10	3	3			0.31	.062	.978 1.019
PM2.5	3	3			0.31	.062	.978 1.019
SO2	3	3			0.29	.057	.915 0.953
VOM	3	3			0.36	.071	1.136 1.183

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX		3			4.41	13.237	13.304
VOM		3			0.36	1.08	1.086

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0014 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0015 LARGE DIESEL GENERATOR #3~~ PERMIT: 79020011

BEGAN OPERATION: /
CEASED OPERATION: /

SCC: 20100102

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %
JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: /
CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1
INPUT (MMBTU/HR): 58.2

HEAT CONTENT: 140000 Btu/gal
SULFUR CONTENT (%): 0.05
ASH CONTENT (%):
NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0		HOURS/DAY:	0.0	
DAYS/WEEK:	0.0		DAYS/WEEK:	0.0	
WEEKS/YEAR:	0		WEEKS/SEASON:	0	
HOURS/YEAR:	0		HOURS/SEASON:	0	
			START TIME:		
			END TIME:		
RATE/HR:	0.0000		RATE/HR:	0.0000	

UNITS: 1000 GALLONS BURNED

)7816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0019 LARGE DIESEL GENERATOR #2~~ PERMIT: 79020011

BEGAN OPERATION: /
CEASED OPERATION: /

SCC: 20100102

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			1.34	0
CO2	3	3	22600		1507.42	0
NH3	3	3			.053	0
NOX	3	3			5.05	0
PART	3	3			.11	0
PM10	3	3			.11	0
PM2.5	3	3			.11	0
SO2	3	3			.45	0
VOM	3	3			.142	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX		3				0
VOM		3				0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0019 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0016 LARGE DIESEL GENERATOR #3~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: / _____

CEASED OPERATION: / _____

FUEL TYPE: 20 DISTILLATE OIL #1 _____

INPUT (MMBTU/HR): 58.2 _____

HEAT CONTENT: 140000 Btu/gal _____

SULFUR CONTENT (%): 0.05 _____

ASH CONTENT (%): _____

NITROGEN CONTENT (%): _____

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0	_____	HOURS/DAY:	0.0	_____
DAYS/WEEK:	0.0	_____	DAYS/WEEK:	0.0	_____
WEEKS/YEAR:	0	_____	WEEKS/SEASON:	0	_____
HOURS/YEAR:	0	_____	HOURS/SEASON:	0	_____
			START TIME:		_____
			END TIME:		_____
RATE/HR:	0.0000	_____	RATE/HR:	0.0000	_____

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0016 LARGE DIESEL GENERATOR #3~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			1.34	0
CO2	3	3	22600		1507.42	0
NH3	3	3			.053	0
NOX	3	3			5.05	0
PART	3	3			.11	0
PM10	3	3			.11	0
PM2.5	3	3			.11	0
SO2	3	3			.45	0
VOM	3	3			.142	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX		3				0
VOM		3				0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0020 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0017 LARGE DIESEL GENERATOR #4~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

BEGAN OPERATION: / JUN - AUG: 25.00 % SEP - NOV: 25.00 %

CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1

INPUT (MMBTU/HR): 58.2

HEAT CONTENT: 140000 Btu/gal

SULFUR CONTENT (%): 0.05

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0		HOURS/DAY:	0.0	
DAYS/WEEK:	0.0		DAYS/WEEK:	0.0	
WEEKS/YEAR:	0		WEEKS/SEASON:	0	
HOURS/YEAR:	0		HOURS/SEASON:	0	
			START TIME:		
			END TIME:		
RATE/HR:	0.0000		RATE/HR:	0.0000	

97816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0017 LARGE DIESEL GENERATOR #4~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
CO	3	3					1.34	0	
CO2	3	3		22600			1507.42	0	
NH3	3	3					.053	0	
NOX	3	3					5.05	0	
PART	3	3					.11	0	
PM10	3	3					.11	0	
PM2.5	3	3					.11	0	
SO2	3	3					.45	0	
VOM	3	3					.142	0	

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED	
NOX		3						0	
VOM		3						0	

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0021 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0008 - LIME SILO

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 30199998

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %
JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	24.0		HOURS/DAY:		
DAYS/WEEK:	7.0		DAYS/WEEK:		
WEEKS/YEAR:	52		WEEKS/SEASON:		
HOURS/YEAR:	8,760		HOURS/SEASON:		
			START TIME:	00:00	
PWR (LB/HR):	20.5000	5.2511	END TIME:	23:59	
RATE/HR:	0.0103	0.0026	PWR (LB/HR):		5.2511
			RATE/HR:		0.0026

97816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0008 - LIME SILO

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 30199998

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
PART	3	3		0.2	.1	.0041 0.0010
PM10	3	3		0.1	.1	.002 0.0005

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED

CAPTURING CONTROLS:

CONTROL 0001 CAPTURE EFFICIENCY: 100.00 %

CAPTURING STACKS:

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0009 - RAD WASTE VOLUME REDUCTION SYSTEM (RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 50300599

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %

BEGAN OPERATION: 02 / 1979 JUN - AUG: 25.00 % SEP - NOV: 25.00 %

CEASED OPERATION: /

UNITS: TONS BURNED

UNITS: TONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	0.0		HOURS/DAY:	0.0	
DAYS/WEEK:	0.0		DAYS/WEEK:	0.0	
WEEKS/YEAR:	0		WEEKS/SEASON:	0	
HOURS/YEAR:	0		HOURS/SEASON:	0	
			START TIME:		
PWR (LB/HR):	0.0000		END TIME:		
RATE/HR:	0.0000		PWR (LB/HR):	0.0000	
			RATE/HR:	0.0000	

I97816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0009 - RAD WASTE VOLUME REDUCTION SYSTEM (RWVRS) PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 _____ SCC: 50300599

CEASED OPERATION: / _____

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			.98	0
NOX	3	3			.131	0
SO2	3	3			.2	0
VOM	3	3			.31	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX		3				0
VOM		3				0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0004 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING PERMIT: 79020011

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

TANK TYPE:

CAPACITY :	2000 gal		TEMPERATURE (F):	60	
DIAMETER (FT):	5.0		ROOF COLOR:	WHITE	
HEIGHT (FT):	12		SHELL COLOR:	WHITE	
LENGTH (FT):			ROOF PAINT CONDITION:	GOOD	
VAPOR SPACE (FT):	1		SHELL PAINT CONDITION:	GOOD	

LOCATION: ABOVE GROUND

SEAL TYPE:

SUPPORT TYPE:

MATERIAL	MWT	VP (psia)	DENSITY	THROUGHPUTS ANNUAL(gallons)	THROUGHPUTS PEAK OZONE(gallons)
Unleaded Gasoline				12,951	3,253

197816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING

PERMIT: 79020011

SCC: 40301007

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 24.00 % 23.0 MAR - MAY: 27.00 % 22.0
JUN - AUG: 23.00 % 25.1 SEP - NOV: 26.00 % 29.9

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

UNITS: 1000 GALLONS THROUGHPUT

UNITS: 1000 GALLONS THROUGHPUT

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	24.0		HOURS/DAY:	24.0	
DAYS/WEEK:	7.0		DAYS/WEEK:	7.0	
WEEKS/YEAR:	52		WEEKS/SEASON:	13	
HOURS/YEAR:	8,760		HOURS/SEASON:	2,208	
			START TIME:		
			END TIME:		
RATE/HR:	0.0014	2.0	RATE/HR:	0.0014	2.0

197816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING PERMIT: 79020011

SCC: 40301007

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
VOM	3	5	____	_____	.458	.003 0.004

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
VOM		5	____	_____		.003 0.004

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0007 CAPTURE EFFICIENCY: 100.00 %_____

A7816AAB - Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0001 - LIME SILO BAGHOUSE PERMIT: 79020011

BEGAN OPERATION: 09 / 1988
CEASED OPERATION: /

CONTROL CODE: 100

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION EFFICIENCY IEPA	ANNUAL OPERATION EFFICIENCY REPORTED	ANNUAL OPERATION METHOD IEPA	ANNUAL OPERATION METHOD REPORTED	PEAK OZONE SEASON OPERATION EFFICIENCY IEPA	PEAK OZONE SEASON OPERATION EFFICIENCY REPORTED	PEAK OZONE SEASON OPERATION METHOD IEPA	PEAK OZONE SEASON OPERATION METHOD REPORTED
PART	99.900							

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0003 CAPTURE EFFICIENCY: 100.00 %

DATE: 4/26/10

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2009

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0002 - Gas - Solid Separator (RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 11/1982

CONTROL CODE: 059

CEASED OPERATION:

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	PART	EFFICIENCY:	99.9 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0003	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

The Illinois EPA is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

DATE: 4/26/10

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2009

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0003 - Venturi Scrubber (RWVRS) PERMIT: 79020011

BEGAN OPERATION: 11/1982 CONTROL CODE: 053

CEASED OPERATION:

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	SO2	EFFICIENCY:	99.8 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0004	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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DATE: 4/26/10

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2009

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0004 - HEPA Filter (RWVRS) PERMIT: 79020011

BEGAN OPERATION: 11/1982 CONTROL CODE: 017

CEASED OPERATION:

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT PART	EFFICIENCY: 99.0 %	METHOD: 3
POLLUTANT PM10	EFFICIENCY: 99.0 %	METHOD: 3
POLLUTANT	EFFICIENCY: %	METHOD:

CAPTURING CONTROLS:

CONTROL 0005	CAPTURE EFFICIENCY: 100 %
CONTROL	CAPTURE EFFICIENCY: %
CONTROL	CAPTURE EFFICIENCY: %

CAPTURING STACKS:

STACK	CAPTURE EFFICIENCY: %
STACK	CAPTURE EFFICIENCY: %
STACK	CAPTURE EFFICIENCY: %

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DATE: 4/26/10

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2009

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0005 - Activated Carbon Bed (RWVRS)
BEGAN OPERATION: 11/1982
CEASED OPERATION:

PERMIT: 79020011
CONTROL CODE: 048

DESCRIPTION CORRECTION:

Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	VOM	EFFICIENCY:	98 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK	0004	CAPTURE EFFICIENCY:	100 %
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

The Illinois EPA is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

DATE: 4/26/10

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2009

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL A - Vapor Extractor PERMIT: 79020011
BEGAN OPERATION: 1/1999 CONTROL CODE: 047
CEASED OPERATION:

DESCRIPTION CORRECTION:

2000 Gallon Gasoline Storage Tanks (2)

REMOVAL EFFICIENCY:

POLLUTANT	VOM	EFFICIENCY:	85-99 %	METHOD:	App D
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK	0007	CAPTURE EFFICIENCY:	100 %
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

The Illinois EPA is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK	DIAMETER (FT)	HEIGHT (FT)	FLOW RATE (ACFM)	TEMPERATURE (F)
0001	4 Large Diesel Engine Generators ~~LARGE DIESEL GENERATOR #1~~			
	2.80	133	21296	950
0002 -	AUXILIARY BOILERS EXHAUST (TWO IDENTICAL STACKS)			
	3.70	140	34468	515
0003 -	LIME SILO BAGHOUSE EXHAUST			
	0.30	50	350	70
0004 -	RADWASTE INCINERATOR			
	13.40	200	229440	122
0007 -	GASOLINE STORAGE TANKS(2)			
	0.25	12	2	69
0014 -	SMALL DIESEL ENGINES (600 HP OR SMALLER)			
	2.50 0.5/0.67	25 35/45	16397	368
~~0019~~	Included in stack 0001 - 4 Large Diesel Engine Generators ~~LARGE DIESEL GENERATOR #2~~			
	2.80	133	21296	950
~~0020~~	Included in stack 0001 - 4 Large Diesel Engine Generators ~~LARGE DIESEL GENERATOR #3~~			
	2.80	133	21296	950
~~0021~~	Included in stack 0001 - 4 Large Diesel Engine Generators ~~LARGE DIESEL GENERATOR #4~~			
	2.80	133	21296	950

DATE: 4/26/10

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2009

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- STACK DATA -

STACK C - Auxiliary Feedwater Pump Diesels (2)

BEGAN OPERATION: 02/1979

CEASED OPERATION:

DESCRIPTION CORRECTION:
Diesel Fired Engines > 600 hp

DIAMETER (FT): 1.33

HEIGHT (FT): 85

TEMPERATURE (F):

FLOW RATE (ACFM):

VELOCITY (FT/MIN): CALCULATED BY IEPA

LATITUDE (DD:MM:SS): 41:14:37:2480

LONGITUDE (DD:MM:SS): 88:13:44:4000

METHOD:

IL 532 2224
APC 469 Rev. Dec-95

The Agency is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

17816AAB - Exelon Generation Co LLC

RECEIVED
MAY 1 2009
By

Attachment 2
Example Verification Completion Form
Page 1 of 1

Verification Documentation

Correspondence/Letter number: BW090041 Origination Date: 4/28/09

Agency/External Stakeholder: IEPA Submittal Due Date: 5/1/09

Recipient of Correspondence: Division of Air Pollution Control
(name and title if known)

Purpose of Submittal: 2008 Annual Emissions Report

Originating Office: ☐ Cantera ☐ Kennett Square ☒ Site Brad
(specify)

Preparer: Raymond Hall *(print)* *(sign)* 4/28/09 *(date)*

Peer Reviewer: Tim Meents *(print)* *(sign)* 4/28/09 *(date)*

Certified Mail Return Receipt Requested: ☒ Yes ☐ No

Approvals (check box if applicable)

	Applicable	Date Review Needed	Signature of Reviewer	Date of Review
Site Departments				
Chemistry	☒	4/30/09		4/30/09
Operations	☐			
Engineering	☐			
Regulatory Assurance	☒	4/30/09		4/30/09
Other: _____ *(specify)*	☐			
Corporate				
SME/FAM	☐			
Site Management				
Plant Manager	☒	5/1/09	☒ Report Signed and Approved	
Site Vice President	☐			

Attach additional page for comments.

Exelon Generation Company, LLC
Braidwood Station
35100 South Route 53, Suite 84
Braceville, IL 60407-9619

www.exeloncorp.com

Exelon
Nuclear

May 1, 2009
BW090041

Illinois Environmental Protection Agency
Division of Air Pollution Control
Air Quality Planning Section (#39)
1021 North Grand Avenue East
P.O. Box 19276
Springfield, Illinois 62794-9276

Subject: 2008 Annual Emissions Report

Per requirements of 35 Illinois Administrative Code Part 254, Exelon hereby submits the 2008 Annual Emissions Report for the Braidwood Nuclear Generating Station, ID NO.197816AAB. Included in the Annual Emissions Report are the following:

1. Annual Source Emissions Summary
2. Annual Source Emissions Forms

Also included for your information and use is a spreadsheet summarizing each point, control, stack, reportable emissions, and fuel consumed.

If you have any questions or comments please contact Raymond Hall of my staff at (815) 417-3203.

Respectfully,

Lawrence M. Coyle
Plant Manager
Braidwood Generating Station

Enclosures

cc: Illinois Environmental Protection Agency, Region 1

Report: APCA0531

Illinois Environmental Protection Agency
Division of Air Pollution Control

DAPC - ANNUAL EMISSIONS REPORT - 2008

Page: 01
Date: 11-18-2008

197816AAB - Exelon Generation Co LLC

- SOURCE DATA -

SOURCE IDS AND LOCATION

AIRS:	17-197-0196	IEPA USE ONLY	SIC 1:	4911		NAICS 1:	221112	
FINDS:	ILD984800003	IEPA USE ONLY	SIC 2:			NAICS 2:		
FEIN:	360938600		SIC 3:			NAICS 3:		
D&B:	0006929509		SIC 4:			NAICS 4:		
LATITUDE:	41:14:37.2480		SIC 5:			NAICS 5:		
LONGITUDE:	88:13:44.4000		SIC 6:			NAICS 6:		

SOURCE ADDRESS

Exelon Generation Co LLC

Rte 53 E
Braceville, IL 60407

CONTACT: ~~Joseph W Tidmore~~ Raymond Hall
PHONE: 815-417-~~2299~~ 3203 EXT: ~~2299~~ 3203
FAX: 815-417-~~2237~~ 3999
E-Mail:

ANNUAL EMISSION REPORT MAILING ADDRESS

Exelon-Braidwood Generating Station

35100 S Rte 53 Ste 84
Braceville, IL 60407

CONTACT: ~~Joseph W Tidmore~~ Raymond Hall
PHONE: 815-417-~~2299~~ 3203 EXT: ~~2299~~ 3203
FAX: 815-417-~~2237~~ 3999
E-MAIL:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete.

AUTHORIZED SIGNATURE

DATE 4/30/09

Lawrence M. Coyle, Plant Manager
TYPED OR PRINTED NAME AND TITLE

815-417-2000 3700
TELEPHONE NUMBER

197816AAB - Exelon Generation Co LLC

- ANNUAL SOURCE EMISSIONS -

POLLUTANT CODE	SOURCES REPORTED EMISSIONS FOR 2008 (TONS/YEAR)	ALLOWABLE EMISSIONS (TONS/YEAR)	EMISSIONS REPORTED FOR 2007 (TONS/YEAR)	IEPA 2008 ESTIMATED EMISSIONS (TONS/YEAR)
CO	6.8672	25.354560	6.162800	1.388969
CO2		28,146.343680	1,097.886532	1,097.886532
METHANE		0.020966	0.000002	0.000002
N2O		0.008299	0.000001	0.000001
NH3	0.0467	0.987168	0.040700	0.038591
NOX	25.8827	93.632767	23.263900	3.739944
PART	0.5894	2.779358	0.528600	0.517492
PM10	0.4737	2.704447	0.436700	0.517484
PM2.5	0.4807	2.245152	0.421800	0.080681
SO2	0.0506	11.232816	0.310800	0.412487
VOM	0.7519	5.046149	0.688300	2.234804
Lead	0.0000			

197816AAB - Exelon Generation Co LLC

- PERMIT LISTING -

PERMIT NUMBER	TYPE OF PERMIT	OPERATION NAME	STATUS	STATUS DATE	EXPIRES
79020011	FESOP	DIESEL GENERATORS AND BOILERS	GRANTED	04-29-2002	04-29-2007

Braidwood Generating Station

2008 Annual Emissions Inventory Report

Summary of Points, Controls & Stacks

Point #	Point Description	Control #	Control Description	Stack #	EMISSIONS TONS/YEAR								
					CO	NOX	PART	PM2.5	PM10	SO2	VOM	NH3	LEAD
0001	4 Large Diesel Engine Generators	N/A	N/A	0001	6.7712	25.4915	0.5552	0.4429	0.4564	0.0398	0.7169	0.0462	N/A
0002	2 Auxiliary Boilers	N/A	N/A	0002	0.0003	0.0014	0.0001	0.0000	0.0001	0.0001	0.0000	0.0001	0.0000
0014	Small Diesel Engines (600hp or less)	N/A	N/A	0014	0.0339	0.1572	0.0110	0.0110	0.0110	0.0103	0.0128	N/A	N/A
0008	Lime Silo	0001	Bag Filter	0003	N/A	N/A	0.0180	N/A	0.0090	N/A	N/A	N/A	N/A
0009	Rad Waste Volume Reduction System	0002	Gas Solid Separator		0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0003	Venturi Scrubber		0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0004	Hepa Filter		0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0009		0005	Activate Charcoal Bed	0004	0.0000	0.0000	N/A	N/A	N/A	0.0000	0.0000	N/A	N/A
0013	2@2000 Gasoline Storage Tanks	"A"	Vapor Recovery System	0007	N/A	N/A	N/A	N/A	N/A	N/A	0.0157	N/A	N/A
"B"	Auxiliary Feedwater Pump Diesels	N/A	N/A	"C"	0.0618	0.2326	0.0051	0.0040	0.0042	0.0004	0.0065	0.0004	N/A
				Total	6.8672	25.8827	0.5894	0.4579	0.4807	0.0506	0.7519	0.0467	0.0000

Source	2008 Fuel Consumption 1000/Gal
Unit 1 Auxiliary Boiler	0
Unit 2 Auxiliary Boiler	0.143
1 A Diesel Generator	27.86
1-B Diesel Generator	31.849
2 A Diesel Generator	28.343
2 B Diesel Generator	27.422
Auxiliary Feedwater Pump	1.053
Small Diesel Engines (600hp or less)	0.516

There were no exceedances of the permit requirements in 2008.

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0001 - LARGE DIESEL GENERATOR #4

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 20100102

MODE 01 - DIESEL-FIRED ENGINES

DESCRIPTION CORRECTION: 4 Large Diesel Engine Generators

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1 20/21

INPUT (MMBTU/HR): 58.2

PERCENT THROUGHPUTS: DEC - FEB: 29.00 % 27 MAR - MAY: 32.00 % 26
JUN - AUG: 19.00 % 17 SEP - NOV: 20.00 % 30

HEAT CONTENT: 140000 Btu/gal 137,290

SULFUR CONTENT (%): 0.05 0.005

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	6.7	7.2	HOURS/DAY:	4.9	5.2
DAYS/WEEK:	1.0		DAYS/WEEK:	1.0	
WEEKS/YEAR:	52		WEEKS/SEASON:	13	
HOURS/YEAR:	351	373.4	HOURS/SEASON:	65	67.8
			START TIME:		
			END TIME:		
RATE/HR:	0.2853	0.3092	RATE/HR:	0.2942	0.2856
CONFIDENTIAL:	N		CONFIDENTIAL:	N	

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0001 ~~4 LARGE DIESEL GENERATOR #1~~ 4 Large Diesel Engine Generators

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 20100102

MODE 01 - DIESEL-FIRED ENGINES

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3		.85	1.34	34.417 36.268
CO2	3	3	22600	22600	1507.42	6029.68 NA
NH3	3	5		.8 8lbs/1000gal	.053	.228 0.247
NOX	3	3		3.2	5.05	129.569 136.537
PART	3	3		.0697	.11	2.822 2.974
PM10	3	3		.0573	.11	2.32 2.445
PM2.5	3	3		0.0556	.11	2.251 2.372
SO2	3	3		.04 0.005	.45	1.62 0.213
VOM	3	3		.09	.142	3.644 3.840

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX	3	3	3.2	3.2	133.571	133.571 126.125
VOM	3	3	.09	.09	3.757	3.757 3.547

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0001 CAPTURE EFFICIENCY: 100.00 %

DATE: 4/28/09

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2008

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 'B' - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION:
CEASED OPERATION:

MODE 01 - Diesel Fired Engines SCC:
SIC:

DESCRIPTION CORRECTION: Diesel Engines > 600 hp

BEGAN OPERATION:
CEASED OPERATION:

PERCENT THROUGHPUTS: DEC-FEB: 23 % MAR-MAY: 23 %
JUN-AUG: 34 % SEP-NOV: 20 %

FUEL TYPE: 20/21
INPUT (MMBTU/HR):

HEAT CONTENT: 137,290
SULFUR CONTENT (%): 0.005
ASH CONTENT (%):
NITROGEN CONTENT (%):

UNITS: 1000 Gallons Burned

UNITS: 1000 Gallons Burned

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	0.87	HOURS/DAY:	1.17
DAYS/WEEK:	1	DAYS/WEEK:	1
WEEKS/YEAR:	24	WEEKS/SEASON:	6
HOURS/YEAR:	21	HOURS/SEASON:	7
RATE/HR:	0.0502	START TIME:	
		END TIME:	
		RATE/HR:	0.0505
CONFIDENTIAL:		CONFIDENTIAL:	

IL 532 2218
APC 463 REV. DEC-05

The Illinois EPA is authorized to require and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a) and (b) and Part 254. It is not necessary to use this form in providing the information. Failure to provide the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

- EMISSION RATE DATA -

POINT 'B' - Auxiliary Feedwater Pump Diesels PERMIT: 79020011

BEGAN OPERATION: 02/1979

CEASED OPERATION: _____

MODE 01 - Diesel Fired Engines (>600hp) SCC: _____

SIC: _____

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
CO	3	0.85	5.883
NH3	5	0.8#/1000gals	0.040
NOX	3	3.2	22.149

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____%

CONTROL _____ CAPTURE EFFICIENCY: _____%

CONTROL _____ CAPTURE EFFICIENCY: _____%

CAPTURING STACKS:

STACK _____ CAPTURE EFFICIENCY: _____%

STACK _____ CAPTURE EFFICIENCY: _____%

STACK _____ CAPTURE EFFICIENCY: _____%

- EMISSION RATE DATA -

POINT 'B' - Auxiliary Feedwater Pump Diesels PERMIT: 7902001

BEGAN OPERATION: 02/1979

CEASED OPERATION: _____

MODE 01 - Diesel Fired Engines (7600hp) SCC: _____

SIC: _____

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
PART	3	0.0697	0.482
PM10	3	0.0573	0.397
PM2.5	3	0.0556	0.385

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CAPTURING STACKS:

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

- EMISSION RATE DATA -

POINT 'B' - Auxiliary Feedwater Pump Diesels PERMIT: 7902001L

BEGAN OPERATION: 02/1979

CEASED OPERATION: _____

MODE 01 - Diesel Fired Engines (7600hp) SCC: _____

SIC: _____

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	TYPICAL EMISSION RATE (LB/HR)
SO2	3	0.005	0.035
VOM	3	0.09	0.623

POLLUTANT CODE	ESTIMATION METHOD	EMISSION FACTOR	PEAK OZONE SEASON EMISSION RATE (LB/HR)
NOX	3	3.2	22.296
VOM	3	0.09	0.627

CAPTURING CONTROLS:

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CONTROL _____ CAPTURE EFFICIENCY: _____ %

CAPTURING STACKS:

STACK 'C' CAPTURE EFFICIENCY: 100 %

STACK _____ CAPTURE EFFICIENCY: _____ %

STACK _____ CAPTURE EFFICIENCY: _____ %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 10100501

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 19.00 % 0 MAR - MAY: 0.00 % 0
JUN - AUG: 0.00 % 0 SEP - NOV: 81.00 % 100

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1 20/21

INPUT (MMBTU/HR): 186

HEAT CONTENT: 19577 Btu/lb 19,297

SULFUR CONTENT (%): 0.05 0.005

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	6.6	1.7	HOURS/DAY:	0.0	0
DAYS/WEEK:	1.0	1	DAYS/WEEK:	0.0	0
WEEKS/YEAR:	3	1	WEEKS/SEASON:	0	0
HOURS/YEAR:	20	1.7	HOURS/SEASON:	0	0
			START TIME:	00:00	
			END TIME:	23:59	
RATE/HR:	0.0429	0.0843	RATE/HR:	0.0000	0
CONFIDENTIAL:	N		CONFIDENTIAL:	N	

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 10100501

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
CO	3	3			5		.087	.214	0.420
CO2	3	3		22300	22300		383.56	383.56	
LEAD		3				9		0	0.000
METHANE	3	3		.28	.28		.0048	.0048	
N2O	3	3		.11	.11		.0019	.0019	
NH3	3	5			.8		.014	.034	0.067
NOX	3	3			20		.3434	.857	1.682
PART	3	3			2		.0343	.086	0.168
PM10	3	3			1		.01715	.043	0.084
PM2.5	3	3			.25		.012	.011	0.021
SO2	3	3			7.1	5.68	.68	.243	0.060
VOM	3	3			.2		.0046	.009	0.017

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED	
NOX	3	3		20	20		0	0	0
VOM	3	3		.2	.2		0	0	0

CAPTURING CONTROLS:

CAPTURING STACKS:

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0002 - 2 AUXILIARY BOILERS PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 10100501
CEASED OPERATION: /

MODE 01 -

CAPTURING STACKS:

STACK 0002 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 20200101

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 22.00 % 28 MAR - MAY: 16.00 % 19
JUN - AUG: 16.00 % 21 SEP - NOV: 46.00 % 32

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

FUEL TYPE: 21 DISTILLATE OIL #2 20/21

INPUT (MMBTU/HR): .2

HEAT CONTENT: 19577 Btu/gal 137,290

SULFUR CONTENT (%): 0.05 0.005

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	1.7	0.9	HOURS/DAY:	1.2	0.8
DAYS/WEEK:	1.0	1	DAYS/WEEK:	1.0	1
WEEKS/YEAR:	24	24	WEEKS/SEASON:	6	6
HOURS/YEAR:	41	22.6	HOURS/SEASON:	8	4.9
			START TIME:		
			END TIME:		
RATE/HR:	0.0259	0.0235	RATE/HR:	0.0236	0.0222
CONFIDENTIAL:	N		CONFIDENTIAL:	N	

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0014 - SMALL DIESEL ENGINES (600 HP OR SMALLER)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 20200101

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
CO	3	3			.95		.188	3.493	2.998
CO2	3	3		21800	21800		30.52	30.52	
NOX	3	3			4.41		.87	16.213	13.916
PART	3	3			.31		.062	1.14	0.978
PM10	3	3			.31		.062	1.14	0.978
PM2.5	3	3			.31		.062	1.14	0.978
SO2	3	3			.29		.057	1.066	0.915
VOM	3	3			.36		.071	1.324	1.136

OZONE SEASON

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED		EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED	
NOX	3	3		4.41	4.41		14.807	14.807	13.237
VOM	3	3		.36	.36		1.209	1.209	1.080

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0014 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0015 LARGE DIESEL GENERATOR #2~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: %____ MAR - MAY: %____

BEGAN OPERATION: / _____ JUN - AUG: %____ SEP - NOV: %____

CEASED OPERATION: / _____

FUEL TYPE: 20 DISTILLATE OIL #1 _____

INPUT (MMBTU/HR): 58.2 _____

HEAT CONTENT: 140000 Btu/gal _____

SULFUR CONTENT (%): 0.05 _____

ASH CONTENT (%): _____

NITROGEN CONTENT (%): _____

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:		HOURS/DAY:	
DAYS/WEEK:		DAYS/WEEK:	
WEEKS/YEAR:		WEEKS/SEASON:	
HOURS/YEAR:		HOURS/SEASON:	
		START TIME:	
		END TIME:	
RATE/HR:		RATE/HR:	
CONFIDENTIAL:		CONFIDENTIAL:	

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT 0015 LAROB DIESEL GENERATOR #2

PERMIT: 79020011

BEGAN OPERATION: /

CEASED OPERATION: /

SCC: 20100102

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3				1.34	
CO2	3		22600		1507.42	
NH3	3				.053	
NOX	3				5.05	
PART	3				.11	
PM10	3				.11	
PM2.5	3				.11	
SO2	3				.45	
VOM	3				.142	

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0019 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0016 LARGE DIESEL GENERATOR #3~~

PERMIT: 79020011

BEGAN OPERATION: /

CEASED OPERATION: /

SCC: 20100102

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: %____ MAR - MAY: %____

JUN - AUG: %____ SEP - NOV: %____

BEGAN OPERATION: /

CEASED OPERATION: /

FUEL TYPE: 20 DISTILLATE OIL #1

INPUT (MMBTU/HR): 58.2

HEAT CONTENT: 140000 Btu/gal

SULFUR CONTENT (%): 0.05

ASH CONTENT (%):

NITROGEN CONTENT (%):

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:		HOURS/DAY:	
DAYS/WEEK:		DAYS/WEEK:	
WEEKS/YEAR:		WEEKS/SEASON:	
HOURS/YEAR:		HOURS/SEASON:	
		START TIME:	
		END TIME:	
RATE/HR:		RATE/HR:	
CONFIDENTIAL:		CONFIDENTIAL:	

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0016 LARGE DIESEL GENERATOR #3~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3				1.34	
CO2	3		22600		1507.42	
NH3	3				.053	
NOX	3				5.05	
PART	3				.11	
PM10	3				.11	
PM2.5	3				.11	
SO2	3				.45	
VOM	3				.142	

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0020 CAPTURE EFFICIENCY: 100.00 %_____

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0017 - LARGE DIESEL GENERATOR #4~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

DESCRIPTION CORRECTION: Included in Point 0001 - 4 Large Diesel Engine Generators

PERCENT THROUGHPUTS: DEC - FEB: %____ MAR - MAY: %____

BEGAN OPERATION: / _____ JUN - AUG: %____ SEP - NOV: %____

CEASED OPERATION: / _____

FUEL TYPE: 20 DISTILLATE OIL #1 _____

INPUT (MMBTU/HR): 58.2 _____

HEAT CONTENT: 140000 Btu/gal _____

SULFUR CONTENT (%): 0.05 _____

ASH CONTENT (%): _____

NITROGEN CONTENT (%): _____

UNITS: 1000 GALLONS BURNED

UNITS: 1000 GALLONS BURNED

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:		HOURS/DAY:	
DAYS/WEEK:		DAYS/WEEK:	
WEEKS/YEAR:		WEEKS/SEASON:	
HOURS/YEAR:		HOURS/SEASON:	
		START TIME:	
		END TIME:	
RATE/HR:		RATE/HR:	
CONFIDENTIAL:		CONFIDENTIAL:	

197816AAB - Exelon Generation Co LLC

- FUEL COMBUSTION DATA -

POINT ~~0017 LARGE DIESEL GENERATOR #1~~ PERMIT: 79020011

BEGAN OPERATION: / _____ SCC: 20100102

CEASED OPERATION: / _____

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3				1.34	
CO2	3		22600		1507.42	
NH3	3				.053	
NOX	3				5.05	
PART	3				.11	
PM10	3				.11	
PM2.5	3				.11	
SO2	3				.45	
VOM	3				.142	

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0021 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0008 - LIME SILO

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 30199998

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 25.00 % MAR - MAY: 25.00 %
JUN - AUG: 25.00 % SEP - NOV: 25.00 %

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

UNITS: TONS PRODUCED

UNITS: TONS PRODUCED

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	24.0		HOURS/DAY:	24.0	
DAYS/WEEK:	7.0		DAYS/WEEK:	7.0	
WEEKS/YEAR:	52		WEEKS/SEASON:	13	
HOURS/YEAR:	8,760		HOURS/SEASON:	2,208	
			START TIME:	00:00	
			END TIME:	23:59	
PWR (LB/HR):	5.7000	20.5479	PWR (LB/HR):	5.7000	20.5479
RATE/HR:	0.0029	0.0103	RATE/HR:	0.0029	0.0103
CONFIDENTIAL:	N		CONFIDENTIAL:	N	

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0008 - LIME SILO

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 30199998

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
PART	3	3	.2		.1	.0011 0.0041
PM10	3	3	.1		.1	.0005 0.0020

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED

CAPTURING CONTROLS:

CONTROL 0001 CAPTURE EFFICIENCY: 100.00 %

CAPTURING STACKS:

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0009 - RAD WASTE VOLUME REDUCTION SYSTEM (RWVRS)

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

SCC: 50300599

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 100.00 % MAR - MAY: 0.00 %
JUN - AUG: 0.00 % SEP - NOV: 0.00 %

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

UNITS: TONS BURNED

UNITS: TONS BURNED

ANNUAL OPERATION		PEAK OZONE SEASON OPERATION	
HOURS/DAY:	0.0	HOURS/DAY:	0.0
DAYS/WEEK:	0.0	DAYS/WEEK:	0.0
WEEKS/YEAR:	0	WEEKS/SEASON:	0
HOURS/YEAR:	0	HOURS/SEASON:	0
		START TIME:	
PWR (LB/HR):	0.0000	END TIME:	
RATE/HR:	0.0000	PWR (LB/HR):	0.0000
CONFIDENTIAL:	N	RATE/HR:	0.0000
		CONFIDENTIAL:	N

197816AAB - Exelon Generation Co LLC

- PROCESS DATA -

POINT 0009 - RAD WASTE VOLUME REDUCTION SYSTEM (RWVRS) PERMIT: 79020011

BEGAN OPERATION: 02 / 1979 SCC: 50300599

CEASED OPERATION: /

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
CO	3	3			.98	0
NOX	3	3			.131	0
SO2	3	3			.2	0
VOM	3	3			.31	0

POLLUTANT CODE	METHOD IEPA	METHOD REP	EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
NOX	3	3			0	0
VOM	3	3			0	0

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0004 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING

PERMIT: 79020011

BEGAN OPERATION: 02 / 1979

CEASED OPERATION: /

TANK TYPE:

CAPACITY :	2000 gal		TEMPERATURE (F):	60	
DIAMETER (FT):	5.0		ROOF COLOR:	WHITE	
HEIGHT (FT):	12		SHELL COLOR:	WHITE	
LENGTH (FT):			ROOF PAINT CONDITION:	GOOD	
VAPOR SPACE (FT):	1		SHELL PAINT CONDITION:	GOOD	

LOCATION: ABOVE GROUND

SEAL TYPE:

SUPPORT TYPE:

MATERIAL	MWT	VP (psia)	DENSITY	THROUGHPUTS ANNUAL (gallons)	THROUGHPUTS PEAK OZONE (gallons)
Unleaded Gasoline				11,821	2,767

197816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING

PERMIT: 79020011

SCC: 40301007

MODE 01 -

DESCRIPTION CORRECTION:

PERCENT THROUGHPUTS: DEC - FEB: 24.00 % 24 MAR - MAY: 20.00 % 27
JUN - AUG: 26.00 % 23 SEP - NOV: 30.00 % 26

BEGAN OPERATION: 02 / 1979
CEASED OPERATION: /

UNITS: 1000 GALLONS THROUGHPUT

UNITS: 1000 GALLONS THROUGHPUT

ANNUAL OPERATION			PEAK OZONE SEASON OPERATION		
HOURS/DAY:	24.0		HOURS/DAY:	24.0	
DAYS/WEEK:	7.0		DAYS/WEEK:	7.0	
WEEKS/YEAR:	52		WEEKS/SEASON:	13	
HOURS/YEAR:	8,760		HOURS/SEASON:	2,208	
			START TIME:		
			END TIME:		
RATE/HR:	2.0000		RATE/HR:	2.0000	
CONFIDENTIAL:	N		CONFIDENTIAL:	N	

197816AAB - Exelon Generation Co LLC

- STORAGE TANK DATA -

POINT 0013 - GASOLINE STORAGE AND HANDLING PERMIT: 79020011

SCC: 40301007

MODE 01 -

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	EMISSION RATE (LB/HR) IEPA	EMISSION RATE (LB/HR) REPORTED
VOM	3	5		1		.458	.004 0.003

POLLUTANT CODE	METHOD IEPA	METHOD REP		EMISSION FACTOR IEPA	EMISSION FACTOR REPORTED	OZONE SEASON EMISSION RATE (LB/HR) IEPA	OZONE SEASON EMISSION RATE (LB/HR) REPORTED
VOM	5	5		1	1	.004	.004 0.003

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0007 CAPTURE EFFICIENCY: 100.00 %

197816AAB - Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0001 - LIME SILO BAGHOUSE

PERMIT: 79020011

BEGAN OPERATION: 09 / 1988

CEASED OPERATION: /

CONTROL CODE: 018

DESCRIPTION CORRECTION:

REMOVAL EFFICIENCY

POLLUTANT	ANNUAL OPERATION EFFICIENCY IEPA	ANNUAL OPERATION EFFICIENCY REPORTED	ANNUAL OPERATION METHOD IEPA	ANNUAL OPERATION METHOD REPORTED	PEAK OZONE SEASON OPERATION EFFICIENCY IEPA	PEAK OZONE SEASON OPERATION EFFICIENCY REPORTED	PEAK OZONE SEASON OPERATION METHOD IEPA	PEAK OZONE SEASON OPERATION METHOD REPORTED
PART	99.900							

CAPTURING CONTROLS:

CAPTURING STACKS:

STACK 0003 CAPTURE EFFICIENCY: 100.00 %

DATE: 4/28/09

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2008

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0002 - Gas-Solid Separator (RWVRS)
BEGAN OPERATION: 11/1982
CEASED OPERATION:

PERMIT: 7902 0011
CONTROL CODE: 059

DESCRIPTION CORRECTION: Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	PART	EFFICIENCY:	99.9 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0003	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

The Illinois EPA is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

DATE: 4/28/09

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2008

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0003 - Venturi Scrubber (RWVRS)
BEGAN OPERATION: 11/1982
CEASED OPERATION:

PERMIT: 79020011
CONTROL CODE: 053

DESCRIPTION CORRECTION: Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	SO2	EFFICIENCY:	99.8 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0004	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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DATE: 4/28/09

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2008

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0004 - HEPA Filter (RWVRS)
BEGAN OPERATION: 11/1982
CEASED OPERATION:

PERMIT: 7102 0011
CONTROL CODE: 017

DESCRIPTION CORRECTION: Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	PART	EFFICIENCY:	99.0 %	METHOD:	3
POLLUTANT	PM10	EFFICIENCY:	99.0 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL	0005	CAPTURE EFFICIENCY:	100 %
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

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DATE: 4/28/09

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2008

PAGE 1 OF 1

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 0005 - Activated Carbon Bed (RWVRS)
BEGAN OPERATION: 11/1982
CEASED OPERATION:

PERMIT: 79020011
CONTROL CODE: 048

DESCRIPTION CORRECTION: Radwaste Volume Reduction System

REMOVAL EFFICIENCY:

POLLUTANT	VOM	EFFICIENCY:	98 %	METHOD:	3
POLLUTANT		EFFICIENCY:	%	METHOD:	
POLLUTANT		EFFICIENCY:	%	METHOD:	

CAPTURING CONTROLS:

CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%
CONTROL		CAPTURE EFFICIENCY:	%

CAPTURING STACKS:

STACK	0004	CAPTURE EFFICIENCY:	100 %
STACK		CAPTURE EFFICIENCY:	%
STACK		CAPTURE EFFICIENCY:	%

IL 532 2223
APC 468 Rev. Dec-95

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DATE: 4/28/09

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2008

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- CONTROL DEVICE DATA -

CONTROL 'A' - Vapor Extractor

PERMIT: 79020011

BEGAN OPERATION: 01/1999

CEASED OPERATION: _____

CONTROL CODE: 047

DESCRIPTION CORRECTION: 2000 Gallon Gasoline Storage Tanks (2)

REMOVAL EFFICIENCY:

POLLUTANT	VOM	EFFICIENCY:	85-99 %	METHOD:	App D
POLLUTANT	_____	EFFICIENCY:	_____ %	METHOD:	____
POLLUTANT	_____	EFFICIENCY:	_____ %	METHOD:	____

CAPTURING CONTROLS:

CONTROL	_____	CAPTURE EFFICIENCY:	_____ %
CONTROL	_____	CAPTURE EFFICIENCY:	_____ %
CONTROL	_____	CAPTURE EFFICIENCY:	_____ %

CAPTURING STACKS:

STACK	0007	CAPTURE EFFICIENCY:	100 %
STACK	_____	CAPTURE EFFICIENCY:	_____ %
STACK	_____	CAPTURE EFFICIENCY:	_____ %

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197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK 0001 - LARGE DIESEL GENERATOR #1

BEGAN OPERATION: 03 / 1977

CEASED OPERATION: /

DESCRIPTION CORRECTION: 4 Large Diesel Engine Generators

DIAMETER (FT):		2.80		
HEIGHT (FT):		133		
FLOW RATE (ACFM):	IEPA -	21296	REPORTED -	
TEMPERATURE (F):	IEPA -	950	REPORTED -	
LATITUDE (DD:MM:SS.SSSS):		41:14:37.2480		
LONGITUDE (DD:MM:SS.SSSS):		88:13:44.4000		
DATUM :		NAD27		
SCALE :		12000		
METHOD:		019		
ACCURACY :		20		

WHERE MEASURED : Center Of Facility

197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK 0002 - AUXILIARY BOILERS EXHAUST (TWO IDENTICAL STACKS)

BEGAN OPERATION: 03 / 1977
CEASED OPERATION: /

DESCRIPTION CORRECTION:

DIAMETER (FT):		3.70		
HEIGHT (FT):		140		
FLOW RATE (ACFM):	IEPA -	34468	REPORTED -	
TEMPERATURE (F):	IEPA -	515	REPORTED -	
LATITUDE (DD:MM:SS.SSSS):		41:14:37.2480		
LONGITUDE (DD:MM:SS.SSSS):		88:13:44.4000		
DATUM :		NAD27		
SCALE :		12000		
METHOD:		019		
ACCURACY :		20		

WHERE MEASURED : Center Of Facility

197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK 0003 - LIME SILO BAGHOUSE EXHAUST

BEGAN OPERATION: 08 / 1988
CEASED OPERATION: /

DESCRIPTION CORRECTION:

DIAMETER (FT):		0.30		
HEIGHT (FT):		50		
FLOW RATE (ACFM):	IEPA -	350	REPORTED -	
TEMPERATURE (F):	IEPA -	70	REPORTED -	
LATITUDE (DD:MM:SS.SSSS):		41:14:37.2480		
LONGITUDE (DD:MM:SS.SSSS):		88:13:44.4000		
DATUM :		NAD27		
SCALE :		12000		
METHOD:		019		
ACCURACY :		20		

WHERE MEASURED : Center Of Facility

197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK 0004 - RADWASTE INCINERATOR

BEGAN OPERATION: 11 / 1982
CEASED OPERATION: /

DESCRIPTION CORRECTION:

DIAMETER (FT):		13.40		
HEIGHT (FT):		200		
FLOW RATE (ACFM):	IEPA -	229440	REPORTED -	
TEMPERATURE (F):	IEPA -	122	REPORTED -	
LATITUDE (DD:MM:SS.SSSS):		41:14:37.2480		
LONGITUDE (DD:MM:SS.SSSS):		88:13:44.4000		
DATUM :		NAD27		
SCALE :		12000		
METHOD:		019		
ACCURACY :		20		

WHERE MEASURED : Center Of Facility

197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK 0007 - GASOLINE STORAGE TANKS(2)

BEGAN OPERATION: 01 / 1999
CEASED OPERATION: /

DESCRIPTION CORRECTION:

DIAMETER (FT):		0.25		
HEIGHT (FT):		12		
FLOW RATE (ACFM):	IEPA -	2	REPORTED -	
TEMPERATURE (F):	IEPA -	69	REPORTED -	
LATITUDE (DD:MM:SS.SSSS):		41:14:37.2480		
LONGITUDE (DD:MM:SS.SSSS):		88:13:44.4000		
DATUM :		NAD27		
SCALE :		12000		
METHOD:		019		
ACCURACY :		20		

WHERE MEASURED : Center Of Facility

197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK 0014 - CREATED STACK

BEGAN OPERATION: / 02/1979
CEASED OPERATION: /

DESCRIPTION CORRECTION: Small Diesel Engines (600 hp or Smaller)

DIAMETER (FT):		2.50	0.5/0.67	
HEIGHT (FT):		25	35/45	
FLOW RATE (ACFM):	IEPA -	16397	REPORTED -	
TEMPERATURE (F):	IEPA -	368	REPORTED -	
LATITUDE (DD:MM:SS.SSSS):		41:14:37.2480		
LONGITUDE (DD:MM:SS.SSSS):		88:13:44.4000		
DATUM :		NAD27		
SCALE :		12000		
METHOD:		019		
ACCURACY :		20		

WHERE MEASURED : Center Of Facility

197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK ~~0019 - - LARGE DIESEL GENERATOR #2~~

BEGAN OPERATION: /

CEASED OPERATION: /

DESCRIPTION CORRECTION: Included in Stack 0001 - 4 Large Diesel Engine Generators

DIAMETER (FT):		2.80		
HEIGHT (FT):		133		
FLOW RATE (ACFM):	IEPA -	21296	REPORTED -	
TEMPERATURE (F):	IEPA -	950	REPORTED -	
LATITUDE (DD:MM:SS.SSSS):		41:14:37.2480		
LONGITUDE (DD:MM:SS.SSSS):		88:13:44.4000		
DATUM :		NAD27		
SCALE :		12000		
METHOD:		019		
ACCURACY :		20		

WHERE MEASURED : Center Of Facility

197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK ~~0020 LARGE DIESEL GENERATOR #3~~

BEGAN OPERATION: /

CEASED OPERATION: /

DESCRIPTION CORRECTION: Included in stack 0001 - 4 Large Diesel Engine Generators

DIAMETER (FT):		2.80		
HEIGHT (FT):		133		
FLOW RATE (ACFM):	IEPA -	21296	REPORTED -	
TEMPERATURE (F):	IEPA -	950	REPORTED -	
LATITUDE (DD:MM:SS.SSSS):		41:14:37.2480		
LONGITUDE (DD:MM:SS.SSSS):		88:13:44.4000		
DATUM :		NAD27		
SCALE :		12000		
METHOD:		019		
ACCURACY :		20		

WHERE MEASURED : Center Of Facility

197816AAB - Exelon Generation Co LLC

- STACK DATA -

STACK ~~0021 LARGE DIESEL GENERATOR #4~~

BEGAN OPERATION: /

CEASED OPERATION: /

DESCRIPTION CORRECTION: Included in Stack 0001 - 4 Large Diesel Engine Generators

DIAMETER (FT):		2.80		
HEIGHT (FT):		133		
FLOW RATE (ACFM):	IEPA -	21296	REPORTED -	
TEMPERATURE (F):	IEPA -	950	REPORTED -	
LATITUDE (DD:MM:SS.SSSS):		41:14:37.2480		
LONGITUDE (DD:MM:SS.SSSS):		88:13:44.4000		
DATUM :		NAD27		
SCALE :		12000		
METHOD:		019		
ACCURACY :		20		

WHERE MEASURED : Center Of Facility

DATE: 4/28/09

ILLINOIS ENVIRONMENTAL PROTECTION AGENCY
DAPC - ANNUAL EMISSIONS REPORT - 2008

ID NUMBER: 197816AAB NAME: Exelon Generation Co LLC

- STACK DATA -

STACK 'C' - Auxiliary Feedwater Pump Diesels (2)

BEGAN OPERATION: 02/1979

CEASED OPERATION: _____

DESCRIPTION CORRECTION: Diesel Fired Engines > 600 hp

DIAMETER (FT): 1.33

HEIGHT (FT): 85

TEMPERATURE (F): _____

FLOW RATE (ACFM): _____

VELOCITY (FT/MIN): CALCULATED BY IEPA

LATITUDE (DD:MM:SS): 41:14:37:2480

LONGITUDE (DD:MM:SS): 88:13:44:4000

METHOD: _____

The Agency is authorized to require, and you must disclose, the information on this form pursuant to 35 Ill. Adm. Codes 201.302(a,b) and Part 254. It is not necessary to use this form in providing the information. Failure to disclose the information may result in penalties as provided for in the Environmental Protection Act, 415 ILCS 5/42-45. This form has been approved by the Forms Management Center.

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-3 Category: Meteorology, Air Quality, and Noise

Statement of Question:

Identify combustion sources of hazardous air pollutants (HAPs) at Braidwood and amount released for the most recent 5 years.

Response:

Sources of Hazardous Air Pollutants (HAPs) at Braidwood Station are small engines (less than or equal to 600 HP), large engines (greater than 600 HP), and boilers. The total annual quantity of HAPs from these sources at Braidwood is well below the HAPs significance level of 10 tons per year. Hence, HAPs are not reported for Braidwood. The quantities and heating values of fuel used at Braidwood by these sources are reported in the annual air emissions reports. This information for the most recent 5 years for large engines (4 large diesel engines and 2 auxiliary feedwater pumps with large diesel engines), boilers (2 auxiliary boilers), and small engines is summarized in the table below.

	Small Engines	Large Engines	Auxiliary Boilers*	Auxiliary Feed Pump Diesel Engines
2008	516 gal/yr @ 137,290 BTU/gal	115,474 gal/yr @ 137,290 BTU/gal	143 gal/yr @ 135,081 BTU/gal	1,053 gal/yr @ 137,290 BTU/gal
2009	603 gal/yr @ 137,944 BTU/gal	119,972 gal/yr @ 137,944 BTU/gal	0.0 gal/yr @ 137,944 BTU/gal	1,630 gal/yr @ 137,944 BTU/gal
2010	808 gal/yr @ 137,871 BTU/gal	96,277 gal/yr @ 137,871 BTU/gal	1,398 gal/yr @ 133,481 BTU/gal	1,354 gal/yr @ 137,871 BTU/gal
2011	522 gal/yr @ 137,627 BTU/gal	98,378 gal/yr @ 137,627 BTU/gal	0.0 gal/yr @ 128,485 BTU/gal	1,335 gal/yr @ 137,627 BTU/gal
2012	505 gal/yr @ 136,831 BTU/gal	87,410 gal/yr @ 136,831 BTU/gal	1,389 gal/yr @ 132,473 BTU/gal	1,713 gal/yr @ 136,831 BTU/gal

* Unit 1 Auxiliary Boiler did not operate during any year from 2008 through 2012.
Source: Braidwood Station Annual Emissions Reports, 2008 through 2012 (see response to Request for Additional Information Question Met-2)

The applicable HAPs emission factors (from USEPA, AP-42, Fifth Edition) for small and large engines at Braidwood are listed below:

	Small Engines Emission Factor (lb/MMBTU)	Large Engines Emission Factor* (lb/MMBTU)	Boiler Emission Factor (lb/1000 gallons)
Benzene	9.33 E-04	7.76 E-04	2.14 E-04
Toluene	4.09 E-04	2.81 E-04	6.20 E-03
Xylenes	2.85 E-04	1.93 E-04	1.09 E-04
1,3 Butadiene	< 3.91 E-05	No Data	No Data
Formaldehyde	1.18 E-03	7.89 E-05	3.30 E-02
Acetaldehyde	7.67 E-04	2.52 E-05	No Data
Acrolein	< 9.25 E-05	7.88 E-06	No Data
Naphthalene	8.48 E-05	1.30 E-04	1.13 E-03

* Applies at Braidwood to Diesel Generators and Auxiliary Feedwater Pump Diesels

List Attachments Provided:

None

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-4 Category: Meteorology, Air Quality, and Noise

Statement of Question:

Provide details of Braidwood's stationary emission sources including, as applicable, operating hours per year (last 5 years), fuel consumption and rate, horsepower ratings, and capacity.

Response:

The requested information is provided in the response to Request for Additional Information Question MET-3.

The sources of the requested information are Braidwood Station Annual Emissions Reports, 2008 through 2012, which are provided in response to Request for Additional Information Question MET-2.

List Attachments Provided:

None

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-6 Category: Meteorology, Air Quality, and Noise

Statement of Question:

Are there expected upgrade/replacement activities for equipment/operation that could increase or decrease air emissions over the license renewal period (period of extended operation)?

Response:

There is no expected upgrade or replacement activities that could increase or decrease air emissions over the license renewal period at Braidwood Station.

List Attachments Provided:

None

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-7 Category: Meteorology, Air Quality, and Noise

Statement of Question:

Provide the information provided at the site audit addressing site-wide emission inventory data (annual) for greenhouse gases (GHG) for the most recent 5 years. Also, include available information on emissions from mobile sources (commuters, visitors, delivery vehicles, etc.)

Response:

Exelon Generation has adopted a procedure to assist its parent company, Exelon Corporation, in complying with the USEPA's Greenhouse Gases (GHG) program and the ISO 14064 Greenhouse Gases—Part 1 specification. In accordance with the procedure, potential direct and indirect GHG sources have been identified for Braidwood Station, and data are collected and submitted to a central corporate database for use in quantifying GHG emissions.

For Braidwood Station, the following potential sources of GHG emissions have been identified:

Direct

- 1 A Diesel Generator
- 1 B Diesel Generator
- 2 A Diesel Generator
- 2 B Diesel Generator
- Unit 1 Auxiliary Boiler
- Unit 2 Auxiliary Boiler
- Auxiliary Feedwater Pump
- Small Diesel Engines
- Propane Fired Engines
- CO2 purge/FP system
- R134a (HFC-134a)
- SF6 (Sulfur hexafluoride)

Indirect

- Electricity consumption

Supplemental

- Halon 1211
- Halon 1301
- R11 (Trichlorofluoromethane)
- R22 (Monochlorodifluoromethane)
- R114 (Dichlorotetrafluoroethane)

The table below summarizes the site-wide Braidwood Station GHG emission inventory data.

Braidwood Station GHG Emissions Summary (2008 through 2012)
[GHG CO2 Equivalents (metric tons)]

	2008	2009	2010	2011	2012
Direct - Scope 1					
Direct Stationary Combustion	1,164.87	1,213.84	1,022.41	1,028.94	997.72
Direct CO2 Fugitive	273.85	862.54	1,013.90	1,463.14	1,579.45
HFC / PFC Refrigerants	0.00	0.00	0.00	0.00	1,517.22
Indirect - Scope 2					
Purchased Electricity	14,928.53	17,656.93	21,629.34	22,112.70	21,625.25
Supplemental					
Ozone Depleting Refrigerants	4,045.54	1,154.48	1,374.53	1,211.05	9,309.53

Operating data (operating hours per year, fuel consumption and rates) for the direct combustion sources can be found in the 2008 through 2012 Annual Emission reports for Braidwood Station, which are provided in the response to Request for Additional Information Question MET-2. The table below presents heat of combustion data and annual fuel usages derived from the data in the Annual Emission reports.

Energy ratings are not available for each of the emergency diesel engines due to the age of manufacture. The diesel engines meet the regulatory requirements of the Reciprocating Internal Combustion Engine (RICE) Regulations in 40 CFR Parts 60 and 63.

Braidwood Stationary Combustion Sources Operating Data

	Small Engines	Large Engines	Auxiliary Boilers	Auxiliary Feed Pump Diesel Engines
2008	516 gal @ 137,290 BTU/gal	115,474 gal @ 137,290 BTU/gal	143 gal @ 135,081 BTU/gal	1,053 gal @ 137,290 BTU/gal
2009	603 gal @ 137,944 BTU/gal	119,972 gal @ 137,944 BTU/gal	0.0 gal @ 137,944 BTU/gal	1,630 gal @ 137,944 BTU/gal
2010	808 gal @ 137,871 BTU/gal	96,277 gal @ 137,871 BTU/gal	1,398 gal @ 133,481 BTU/gal	1,354 gal @ 137,871 BTU/gal
2011	522 gal @ 137,627 BTU/gal	98,378 gal @ 137,627 BTU/gal	0.0 gal @ 128,485 BTU/gal	1,335 gal @ 137,627 BTU/gal
2012	505 gal @ 136,831 BTU/gal	87,410 gal @ 136,831 BTU/gal	1,389 gal @ 132,473 BTU/gal	1,713 gal @ 136,831 BTU/gal

Source: Braidwood Station FESOP Annual Emissions Reports for 2008 through 2012

Exelon Corporation does not compile or report GHG data for mobile sources, except those under corporate control (fleet vehicles). Within Exelon Generation, GHG emissions from fleet vehicles are tracked through fleet fuel usage. The data are tracked for the Exelon Generation fleet rather than individual facilities. Therefore, no information on emissions from vehicles specific to Braidwood Station is readily available.

List Attachments Provided:

None

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-8 Category: Meteorology, Air Quality, and Noise

Statement of Question:

Provide a description of the primary meteorological tower. Also, describe the backup meteorological tower if one is present. Include a description of instrumentation installed and height of installation for each instrument. Describe any changes in land use around the tower sites that have occurred since installation that may affect any meteorological sensor performance.

Response:

a. The primary meteorological tower is 320 ft high and is instrumented at two levels. Wind speed and direction are measured at 34 ft and 203 ft. Ambient temperature is measured at 30 ft. Differential temperature, referenced to 30 ft, is measured at 199 ft. Dew point temperature is measured at 30 ft. Precipitation is measured at approximately 3 ft.

Instrument types and locations are described in each Braidwood Station Annual Report on the Meteorological Monitoring Program, Section 3, copies of which are provided for 2008 through 2012 in response to Request for Additional Information Question MET-9. The table below summarizes this information for 2012.

Measurement	Sensor Type	Location	Elevation
Wind Speed	MRI Model 1022-S	Tower	203 ft
Wind Direction	MRI Model 1022-D	Tower	203 ft
Differential Temperature	MRI Model 1596602	Tower	199 ft
Wind Speed	MRI Model 1022-S	Tower	34 ft
Wind Direction	MRI Model 1022-D	Tower	34 ft
Ambient Temperature	MRI Model 1596602	Tower	30 ft
Dew Point Temperature	MRI Model 1993900000	Tower	30 ft
Precipitation	Climatronics 100097-1	Ground	3 ft

A schematic diagram of the meteorological monitoring instruments from the tower to the control room is attached to this response (Drawing No. 20E-0-4031EM01).

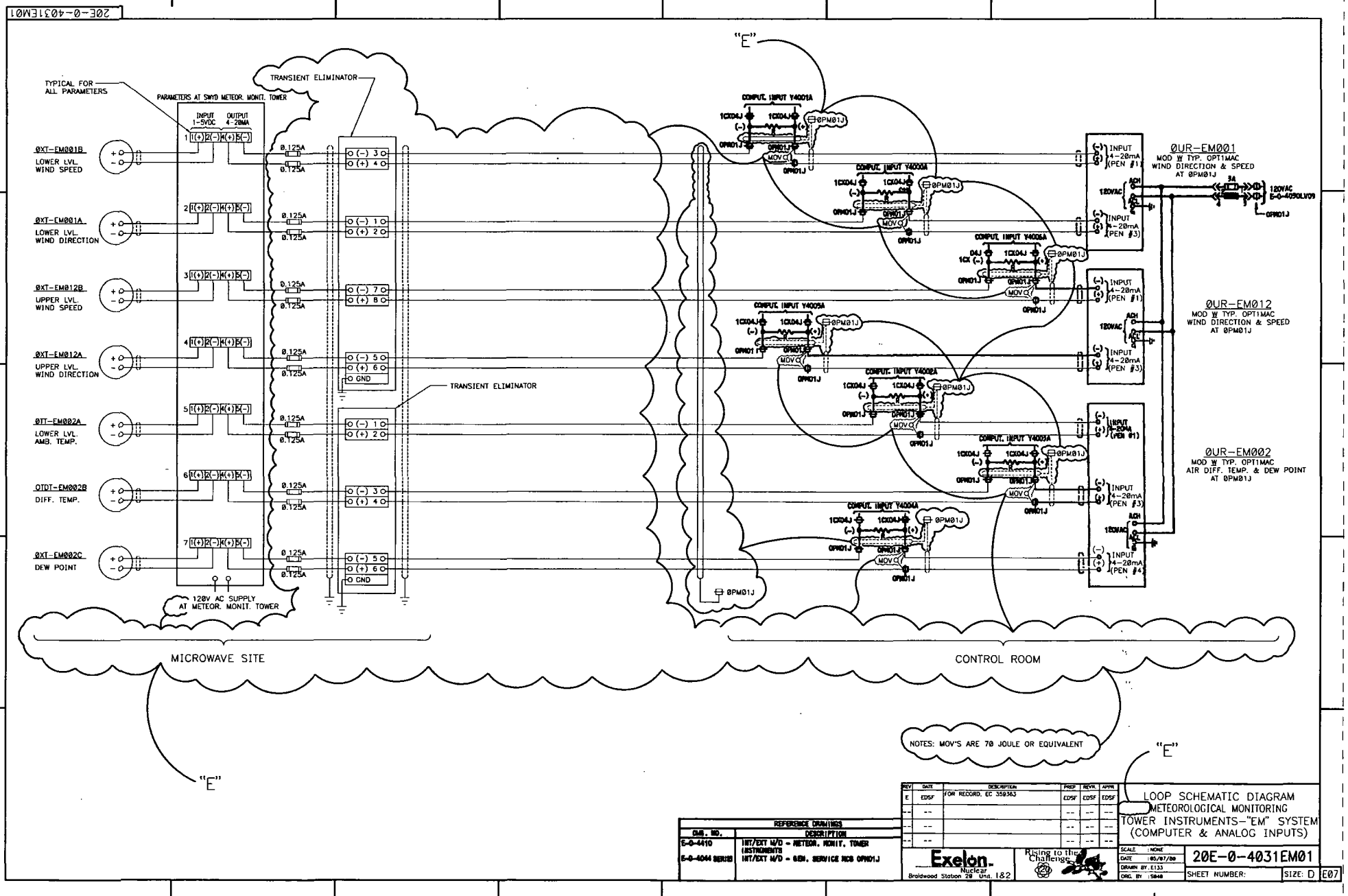
b. Records of calibration and maintenance of meteorological instruments, which are conducted by a contractor, are provided in each Braidwood Station Monthly Report on the Meteorological Monitoring Program. As an example, the monthly report for March 2012 is attached.

c. Collection, evaluation, validation, and management of meteorological data are performed by a contractor. An Exelon Generation procedure provides a standard means of review by Exelon personnel to verify that the requirements of the Offsite Dose Calculation Manual (ODCM) with respect to these activities are met.

List Attachments Provided:

1. Loop Schematic Diagram Meteorological Monitoring Tower Instruments – "EM" System (Computer & Analog Inputs). Drawing 20E-0-4031EM01

2. Monthly Report on the Meteorological Monitoring Program at the Braidwood Nuclear Generating Station, March 2012. Prepared for Exelon Nuclear by Murray and Trettel, Inc. May 10, 2012



REFERENCE DRAWINGS	
DWG. NO.	DESCRIPTION
E-0-4410	INT/EXT W/D - METEOR. MONIT. TOWER INSTRUMENTS
E-0-4044 SERIES	INT/EXT W/D - GEN. SERVICE NCS 0PN01J

REV	DATE	DESCRIPTION	PREP	REVR.	APPR
E	EDSF	FOR RECORD, EC 359363	EDSF	EDSF	EDSF
--	--		--	--	--
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--	--		--	--	--

Exelon Nuclear
Braidwood Station 2# Unit. 1&2

Rising to the Challenge

LOOP SCHEMATIC DIAGRAM METEOROLOGICAL MONITORING TOWER INSTRUMENTS-"EM" SYSTEM (COMPUTER & ANALOG INPUTS)

SCALE	: NONE
DATE	: 05/07/08
DRAWN BY	: E133
ORG. BY	: 5848

20E-0-4031EM01

SHEET NUMBER:

SIZE: D E07

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-9 Category: Meteorology, Air Quality, and Noise

Statement of Question:

Provide the following meteorological information from the data recorded at Braidwood's meteorological facility. The meteorological data should include the most recent 5 years for which the data are available:

(a) mean monthly and annual temperatures

(b) mean monthly precipitation and annual precipitation

(c) Provide seasonal and annual summary wind statistics in the form of wind direction and speed frequency distribution tables and wind roses. Discuss predominant wind direction and speed by season and annual average, local terrain features affecting wind direction and speed, and provide a value for annual average wind speed.

(d) Provide seasonal stability class statistics determined from the Braidwood meteorological tower in tabular form for the last 5 years.

Response:

a. Mean monthly temperature data are presented in the Braidwood Station Monthly Report on the Meteorological Monitoring Program, Section 7. These monthly reports provide the basis for the Braidwood Station Annual Report on the Meteorological Monitoring Program. The average monthly mean temperatures and the average annual temperature for the years 2008 through 2012 are presented in Table 1 below.

Table 1
Braidwood Station Mean Monthly Temperatures (°F)
2008 - 2012

	2008	2009	2010	2011	2012	AVERAGE Monthly Mean
January	24.4	17.3	20.1	21.5	30.9	22.8
February	24.1	30.1	26.1	28.1	33.4	28.4
March	36.6	41.6	43.7	39.1	54.3	43.1
April	51.4	49.7	57.7	50.3	52.7	52.4
May	58.3	62.1	63.3	61.3	66.8	62.4
June	72.7	70.0	72.7	71.7	73.5	72.1
July	74.1	69.2	77.1	79.4	80.9	76.1
August	71.2	69.8	76.4	73.8	73.1	72.9
September	66.1	64.4	66.2	62.1	64.4	64.6
October	53.2	49.0	56.9	55.5	51.8	53.3
November	40.1	46.4	43.3	45.3	31.2	41.3

	2008	2009	2010	2011	2012	AVERAGE Monthly Mean
December	24.4	28.1	22.1	35.9	37.1	29.5
AVERAGE Annual	49.7	49.8	52.1	52.0	54.2	

b. Monthly and annual total precipitation data are presented for each year in the Braidwood Station Annual Report on the Meteorological Monitoring Program, Table 12. The mean monthly and annual total precipitation during 2008 through 2012 are summarized in Table 2 below. Copies of the annual reports are attached.

Table 2
Braidwood Station Monthly and Annual Precipitation Totals and Means (inches)*
2008 - 2012

	2008	2009	2010	2011	2012	MEAN
January	0.50	0.58	1.00	0.60	1.96	**0.93**
February	1.61	3.2	1.10	2.86	1.83	**2.12**
March	1.19	2.82	2.52	1.47	1.31	**1.86**
April	1.55	6.21	3.58	5.97	1.42	**3.75**
May	3.25	6.21	4.77	5.54	4.85	**4.92**
June	3.06	6.83	7.70	4.87	2.44	**4.98**
July	3.27	2.67	2.23	1.26	0.74	**2.03**
August	1.09	4.6	1.29	3.34	5.52	**3.17**
September	11.65	1.23	3.82	3.74	2.89	**4.67**
October	2.27	8.28	1.62	1.27	4.10	**3.51**
November	0.34	1.47	2.01	3.22	1.00	**1.61**
December	3.60	2.95	2.57	2.57	2.57	**2.85**
ANNUAL	33.38	47.05	34.21	36.71	30.63	**36.40**

* Some data are missing -- actual precipitation may be under-reported.

c. Seasonal and annual summary wind statistics in the form of wind direction and speed frequency distribution tables and wind roses are provided by season and for the year in each Braidwood Station Annual Report on the Meteorological Monitoring Program, Tables 7 through 11. Copies of the annual reports for the years 2008 through 2012 are attached.

Table 3 below presents the predominant quarterly and annual wind speeds and directions at the 30-ft level for the years 2008 through 2012. The predominant wind direction at the Braidwood site was west for three of the five years from 2008 through 2012. Slight seasonal variations are evident from the data, but the wind speed falls into either the 3.6 to 7.5 mph wind speed class or the 7.6 to 12.5 mph wind speed class most of the time, with the 3.6 to 7.5 mph class prevailing slightly on an annual basis. The Braidwood Station Annual Report on the Meteorological Monitoring Program does not calculate an average yearly wind

speed. However, the data suggest it to be around the midpoint between 3.6 mph and 12.5 mph, which is approximately 8.1 mph.

The most important factor affecting the local meteorology near the Braidwood site is the presence of the cooling pond. The influence of the cooling pond on the local meteorology is greatest during the winter season, when the temperature differential between the pond and the air mass is a maximum, and during certain climatological conditions when the difference between the saturation vapor pressure and actual vapor pressure of the atmosphere is very small.

Braidwood is at an elevation of 600 ft above mean sea level (MSL) and is the highest point within a five-mile radius of the site. The lowest points within 5 miles of the site are approximately 550 ft above MSL. Terrain in the vicinity of the plant falls off except from northeast through the south-southeast directions. The slope from the plant to the lower points is gradual. There is no significant effect of topography on atmospheric dispersion due to the flat nature of the area.

d. Seasonal and annual summary wind stability statistics are provided by season and for the year in each Braidwood Station Annual Report on the Meteorological Monitoring Program, Tables 7 through 11. Copies of the annual reports for the years 2008 through 2012 are attached. Table 4 below presents the predominant quarterly and annual wind stability classes based on the 199-30-ft differential temperature as well as the corresponding predominant wind direction at 30 ft for the years 2008 through 2012.

   Stability based in the 199-30 ft. differential temperature for all years from 2008 through 2012 and all seasons, except fall (Quarter 3), most frequently fell into the neutral classification. During the fall season (Quarter 3), stability most frequently fell into the slightly stable classification for all years.

Table 3
Braidwood Station Predominant Wind Speed (miles/hr) and Direction (at 30 ft)
2008 to 2012

	2008		2009		2010		2011		2012	
	Speed	Direction	Speed	Direction	Speed	Direction	Speed	Direction	Speed	Direction
1st Qtr	7.6-12.5	WNW	3.6-7.5	WNW	3.6-7.5	W	3.6-7.5	WNW	7.6-12.5	WNW
2nd Qtr	7.6-12.5	S	3.6-7.5	NE	3.6-7.5	W	3.6-7.5	NE	3.6-7.5	NE
3rd Qtr	3.6-7.5	WSW	3.6-7.5	ENE	3.6-7.5	S	3.6-7.5	NNW	3.6-7.5	S
4th Qtr	3.6-7.5	S	3.6-7.5	WSW	29.93	WNW	3.6-7.5	S	3.6-7.5	S
Annual	3.6-7.5	W	3.6-7.5	WNW	3.6-7.5	W	3.6-7.5	W	3.6-7.5	S
% of Total	39.13	10.08	42.28	9.41	44.26	10.03	41.97	8.62	41.78	10.00

Table 4
Braidwood Station Wind Stability Class Distribution (percent) Based on 199-30 ft Temperature Differential and Predominant Wind Direction (at 30 ft)
2008 to 2012

Stability Class	2008 Qtr 1		2009 Qtr 1		2010 Qtr 1		2011 Qtr 1		2012 Qtr 1	
	Wind Direction	%	Wind Direction	%	Wind Direction	%	Wind Direction	%	Wind Direction	%
Extremely Unstable	WNW	4.56	WNW	6.94	NW	6.61	WNW	5.85	WNW	6.37
Moderately Unstable	W/WNW	2.26	W	4.89	W	3.72	NW	3.60	SSW	4.94
Slightly Unstable	W	4.64	S	5.07	W/NW	4.10	W	5.38	W	5.54
Neutral	WNW	57.95	WNW	42.13	W	41.81	WNW	50.98	WNW	48.08
Siightly Stable	S	25.45	WNW	32.36	WNW	31.94	SW	29.79	S	24.85
Moderately Stable	W	4.75	WSW/W	7.08	W	10.01	W	4.07	W	8.27
Extremely Stable	SW	0.42	ENE	1.44	WNW	1.68	WNW	0.19	SSW	1.85

Stability Class	2008 Qtr 2		2009 Qtr 2		2010 Qtr 2		2011 Qtr 2		2012 Qtr 2	
	Wind Direction	%	Wind Direction	%	Wind Direction	%	Wind Direction	%	Wind Direction	%
Extremely Unstable	NNW	8.75	W	13.83	WNW	16.40	W	13.67	SSW	21.54
Moderately Unstable	S/W	6.24	W	5.57	SSW	5.70	NE	4.70	NE	5.71
Slightly Unstable	S	6.33	NNE/NE	5.15	W	5.98	S	4.88	NE	4.41
Neutral	S	35.27	NE	33.70	NE	32.71	NNE	41.26	NE	28.41
Siightly Stable	S	32.15	S	30.69	S	31.07	S	28.37	S	27.48
Moderately Stable	W	8.14	WSW	7.52	WNW	6.03	W	4.84	ESE	9.84
Extremely Stable	W	3.12	W	3.20	W	1.96	ENE	2.19	ENE	2.51

Stability Class	2008 Qtr 3		2009 Qtr 3		2010 Qtr 3		2011 Qtr 3		2012 Qtr 3	
	Wind Direction	%	Wind Direction	%	Wind Direction	%	Wind Direction	%	Wind Direction	%
Extremely Unstable	W	18.43	NE	20.39	WNW	22.04	WSW	19.37	SSW	19.51
Moderately Unstable	W	6.47	ENE	5.47	SSW/SW	4.44	N	6.46	W	6.42
Slightly Unstable	SSE	4.60	NNE/SSE/W	3.85	S	5.32	NNW	5.47	N/SSW	6.38
Neutral	SW	23.22	ENE	25.21	SW	20.23	NNW	24.24	NNW	22.20
Siightly Stable	WSW	24.72	ENE	28.08	S	33.01	ENE	28.08	S	27.35
Moderately Stable	E	16.46	W	12.42	1.34	11.16	E	11.32	W	12.66
Extremely Stable	E	6.10	WNW	4.59	W	3.61	ENE	4.91	WSW	5.20

Stability Class	2008 Qtr 4		2009 Qtr 4		2010 Qtr 4		2011 Qtr 4		2012 Qtr 4	
	Wind Direction	%	Wind Direction	%	Wind Direction	%	Wind Direction	%	Wind Direction	%
Extremely Unstable	NW	3.87	W	4.19	WNW	4.84	S	3.55	SSW	2.91
Moderately Unstable	W	4.30	SSW/W	2.81	WSW	3.42	W	3.59	W	1.79
Slightly Unstable	W	5.19	SSE	2.85	SW	4.47	SSW	4.38	SSW	3.34
Neutral	W	46.79	WSW	55.11	W	35.45	S	45.02	WNW	44.19
Siightly Stable	S	29.13	S	28.36	SSE	30.16	S	31.75	S	39.82
Moderately Stable	WSW	8.22	WNW	4.79	WSW	12.73	WSW	7.97	ESE	6.21
Extremely Stable	WSW	2.50	NE	1.89	W	8.80	SE	3.73	E/ESE	1.74

Stability Class	2008 Annual		2009 Annual		2010 Annual		2011 Annual		2012 Annual	
	Wind Direction	%	Wind Direction	%	Wind Direction	%	Wind Direction	%	Wind Direction	%
Extremely Unstable	W	8.91	WNW	11.3	WNW	12.44	W	10.59	SSW	12.58
Moderately Unstable	W	4.82	W	4.68	SSW	4.32	W	4.58	SSW	4.72
Slightly Unstable	W	5.18	WNW	4.23	W	4.97	W	5.03	SSW	4.92
Neutral	W	40.77	WNW	39.06	W	32.55	NNE	40.40	WNW	35.77
Siightly Stable	S	27.87	S	29.87	WNW	31.54	S	29.51	S	29.85
Moderately Stable	WSW	9.40	W	7.95	W	10.00	W	7.05	ESE	9.24
Extremely Stable	E	3.04	ENE	2.78	W	4.04	W	2.76	WSW	2.81

List Attachments Provided:

1. Annual Report on the Meteorological Monitoring Program at the Braidwood Nuclear Power Station, 2008. Prepared for Exelon Nuclear by Murray and Trettel, Inc. April 18, 2009

2. Annual Report on the Meteorological Monitoring Program at the Braidwood Nuclear Power Station, 2009. Prepared for Exelon Nuclear by Murray and Trettel, Inc. March 31, 2010

3. Annual Report on the Meteorological Monitoring Program at the Braidwood Nuclear Power Station, 2010. Prepared for Exelon Nuclear by Murray and Trettel, Inc. April 24, 2011

4. Annual Report on the Meteorological Monitoring Program at the Byron Nuclear Power Station, 2011. Prepared for Exelon Nuclear by Murray and Trettel, Inc. August 08, 2012

5. Annual Report on the Meteorological Monitoring Program at the Byron Nuclear Power Station, 2012. Prepared for Exelon Nuclear by Murray and Trettel, Inc. April 25, 2013

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-10a Category: Meteorology, Air Quality, and Noise

Statement of Question:

Provide the information provided at the site audit addressing:

(a) Has an atmospheric warming trend been observed in the vicinity of Braidwood during the period of plant operations? Provide data to support the conclusions reached (e.g., mean daily maximum annual temperatures, mean daily minimum annual temperatures, or mean annual temperature for the available period of record from Braidwood's meteorological station).

Response:

A table listing average monthly temperatures (°F) measured at the Braidwood Station Meteorological Tower (30-ft elevation) for the period from November 1973 through November 2013 is attached. Based on assessments using cumulative moving average and simple moving median calculations, a slight upward trend in annual average temperature at the Braidwood Station Meteorological Tower was observable for this data set. However, Exelon Generation cannot conclude from these observations, which represent only one location, whether any atmospheric warming trend has been observed in the region surrounding Braidwood.

List Attachments Provided:

1. Braidwood Station Meteorological Tower – Average Monthly Temperatures, 30' Elevation. November 1973 through November 2013.

Braidwood Station - Average Monthly Temperatures 30' Elevation (°F)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG
1973											41.1	25.0	
1974	25.7	30.2	39.1	52.6	58.2	65.4	74.1	70.4	60.3	51.9	38.2	30.6	**49.7**
1975	27.8	26.6	33.6	40.1	64.4	71.8	73.6	73.9	59.0	56.0	45.1	30.4	**50.2**
1976	19.1	35.3	42.8	51.6	57.2	71.9	74.9	70.7	63.4	48.5	32.7	20.8	**49.1**
1977	9.6	27.8	46.8	56.9	69.5	68.9	77.0	71.4	63.1	48.8	40.4	23.6	**50.3**
1978	14.8	15.7	32.5	49.4	60.8	71.6	73.2	73.1	70.5	51.9	41.1	26.5	**48.4**
1979	10.0	13.9	36.6	46.6	61.0	71.1	72.3	71.9	65.9	52.9	39.6	32.9	**47.9**
1980	23.5	21.1	33.8	47.6	62.4	69.2	76.8	74.9	66.3	49.4	41.0	28.5	**49.5**
1981	23.2	27.5	38.7	53.7	56.9	71.4	72.6	70.6	63.0	50.7	41.7	25.3	**49.6**
1982	12.7	21.8	35.0	44.7	66.7	65.1	73.9	69.3	62.8	54.3	40.5	36.2	**48.6**
1983	26.8	31.6	38.3	45.1	56.9	72.1	78.8	76.6	63.6	54.4	43.5	15.7	**50.3**
1984	18.7	33.6	30.5	47.9	58.3	73.1	72.1	73.8	62.9	56.3	39.3	33.7	**50.0**
1985	16.9	22.7	41.4	55.2	65.0	68.3	73.6	69.6	66.0	55.4	40.2	18.6	**49.4**
1986	26.0	24.6	42.2	54.6	62.4	70.5	76.8	69.5	68.3	54.8	36.8	31.0	**51.5**
1987	26.0	34.3	41.9	52.3	67.1	74.2	76.9	73.1	65.5	48.1	44.9	32.9	**53.1**
1988	20.8	23.5	39.1	50.5	65.3	74.5	78.3	77.6	67.4	47.6	41.8	28.8	**51.3**
1989	33.0	19.5	37.6	49.7	59.6	70.1	74.6	72.0	63.1	54.8	39.1	15.8	**49.1**
1990	35.1	32.9	42.6	50.6	58.2	71.4	72.3	71.9	66.6	52.8	45.9	29.0	**52.4**
1991	21.8	31.5	40.8	54.2	67.6	74.9	75.8	73.7	64.7	54.2	35.3	31.7	**52.2**
1992	29.0	34.1	40.3	48.4	60.6	67.3	69.7	67.4	63.3	52.2	38.9	29.0	**50.0**
1993	27.4	25.0	35.5	48.2	62.5	69.1	74.7	73.1	60.2	51.6	39.2	29.9	**49.7**
1994	16.5	23.9	39.0	52.1	61.1	72.7	72.6	69.6	66.6	55.4	45.1	35.4	**50.8**
1995	24.4	27.5	41.3	47.5	59.8	72.8	77.7	77.4	62.7	53.6	33.2	26.8	**50.4**
1996	23.6	28.5	33.0	47.8	58.5	70.8	71.3	73.1	63.8	53.9	33.9	28.6	**48.9**
1997	19.5	31.0	40.1	46.7	56.2	70.5	73.8	69.6	65.3	53.8	37.3	31.1	**49.6**
1998	30.5	39.1	39.5	51.9	67.7	71.0	74.8	74.6	70.6	55.6	44.3	34.3	**54.5**
1999	22.3	35.1	36.9	51.9	64.0	71.4	78.9	70.4	64.8	54.1	47.1	31.4	**52.4**
2000	24.8	35.3	45.6	50.2	64.5	69.6	71.9	73.2	65.9	57.6	37.7	16.6	**51.1**
2001	25.4	28.7	36.0	56.5	63.5	70.4	75.5	74.0	63.2	53.4	49.9	34.8	**52.6**
2002	32.9	33.4	35.9	51.5	57.7	73.7	77.3	74.0	69.1	50.5	39.0	31.4	**52.2**
2003	21.7	25.1	40.1	52.8	59.1	67.9	73.7	73.9	64.1	54.3	44.1	33.0	**50.8**
2004	22.0	29.8	43.4	53.9	63.8	69.6	72.5	68.4	68.7	55.5	45.0	31.2	**52.0**

Braidwood Generating Station - Average Monthly Temperatures 30' Elevation (°F) (continued)

	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	AVG
2005	26.6	34.2	37.3	54.6	60.3	75.9	76.3	74.8	70.7	56.2	43.7	24.3	**52.9**
2006	37.0	29.9	40.8	55.8	61.4	70.2	77.9	73.9	64.1	51.4	44.2	35.7	**53.5**
2007	29.3	18.4	45.5	49.5	67.0	72.5	72.9	74.9	69.3	59.8	40.6	28.8	**52.4**
2008	24.4	24.1	36.6	51.4	58.3	72.7	74.1	71.2	66.1	53.2	40.1	24.4	**49.7**
2009	17.3	30.1	41.6	49.7	62.1	70.0	69.2	69.8	64.4	49.0	46.4	28.1	**49.8**
2010	20.1	26.1	43.7	57.7	63.3	72.7	77.1	76.4	66.2	56.9	43.3	22.1	**52.1**
2011	21.5	28.1	39.1	50.3	61.3	71.7	79.4	73.8	62.1	55.5	45.3	35.9	**52.0**
2012	30.9	33.4	54.3	52.7	66.8	73.5	80.9	73.1	64.4	51.8	41.9	37.1	**55.1**
2013	28.2	27.9	33.4	48.9	64.1	69.9	73.3	72.6	67.4	54.4	37.8		
AVG	**23.7**	**28.1**	**39.3**	**50.8**	**62.0**	**69.3**	**73.0**	**70.8**	**63.5**	**52.0**	**41.1**	**28.7**	**50.2**

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-10b Category: Meteorology, Air Quality, and Noise

Statement of Question:

Provide the information provided at the site audit addressing:

(b) Has a river warming trend been observed in the Kankakee River during the period of plant operations? Provide any study(s) or data that support the conclusions reached (e.g., mean annual, seasonal, and/or monthly water temperature trend for the period of record).

Response:

Table MET-10b is attached listing average monthly temperatures (°F) measured at the Braidwood Station River Screen House intake structure for the periods from January 2002 through August 2008 and from January 2011 through December 2013. Based on assessments of these data using cumulative moving average and simple moving median calculations, no warming trend in annual average temperature is observable.

The nearest U.S. Geologic Survey (USGS) gaging station (05527500) on the Kankakee River with temperature data is at Wilmington, IL, approximately 14 km (8 mi) downstream of the Braidwood discharge. The following table identifies the temperature data collected at that gaging station. Because the data are intermittent with long time gaps and because the collection methodologies are varied and inconsistent, the data are not comparable and cannot be used to perform a trend analysis.

Type of data	Time period	Notes
15-min intervals	water year 2012 – present (Sept 2012 – October 2013)	provisional data
single temperature; recorded monthly	2009 - present	Collected as part of procedure for monthly water quality grab samples
none	1992 - 2009	
single temperature; recorded monthly	1977 – 1991	Collected as part of procedure for monthly water quality grab samples
"water temperature"	water years 1973 -1977	probably collected continuously at the gaging station
none	previous to 1973	

Braidwood Unit 1 began commercial operation on 29 July 1988 followed by Unit 2 on 17 October 1988. Since that time, a fish monitoring program has been conducted for Braidwood Station with fish sampling during August each year. Physicochemical data are collected during the sampling events, including river temperature measurements, but no database of the measurements has been created. The most recent report for the August 2012 sampling indicates that during August 2012, water temperature ranged from 23.3 °C (73.9 °F) on

August 22 to 29.5 °C (85.1 °F) on August 8. Water temperatures were warmer during the first sampling period due to an extended period of unusually warm air temperatures in July and early August. Even so, the physicochemical data collected in 2012 were similar to values reported during previous years of these studies. Each of the measured water quality parameters observed was well within the range of values capable of supporting a healthy fishery.

List Attachments Provided:

1. Table MET-10b: Braidwood Station - Average Monthly Kankakee River Water Intake Temperatures (°F), 2002 to 2008 and 2011 to 2013.

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-12 Category: Meteorology, Air Quality, and Noise

Statement of Question:

Provide information about any noise complaints for the most recent 5 years resulting from plant operation.

Response:

During the investigation to determine whether new and significant information exists with respect to license renewal environmental issues categorized in the Generic Environmental Impact Statement for Nuclear Plant License Renewal (GEIS) as Category 1, three Braidwood Station staff members were interviewed regarding noise issues. The interview forms are attached to this response. All three staff members indicated that occasional complaints about plant noise have been received over the years.

In 2010, significant complaints regarding noise associated with venting of main steam valves during a dual plant shutdown were received. Neal Miller, the Braidwood Communications Manager, explained during the interview that it has been the plant's practice since then to provide prior notice to members of the public of plant activities that could cause noise. This practice, along with installation of a subsurface diffuser at the river discharge, has nearly eliminated noise complaints during subsequent years.

List Attachments Provided:

1. Staff Interview Form, New and Significant Information Identification Process, Issue 58. Noise.

Issue and Discussion: 58. Noise Category: 1

A. Interviewee Identification:

Name: Ray Hall Telephone: (815) 417-3203

Organization: Braidwood Chemistry/Environmental Education: BS Chem E

Responsibilities: Environmental Progams Years Experience: Here: 4

Other: 2

B. Issue-Specific Questions

i. Has this particular issue been of concern at this plant (if "yes" please explain?) No

No

ii. How would you characterize the environmental impact associated with this issue at this plant?

SMALL

iii. NRC characterized the environmental impact associated with this issue a SMALL

Do you agree with the NRC findings for this issue (if "no," please explain)? Yes

iv. Basis for response:

There have been a few noise complaints but nothing major.

v. Additional comments:

On some occasions, the public has contacted the plant about the noise of some plant activities. Noise issues at the plant have included steam releases, the circulating water make-up pumps and the discharge at the river. The discharge has been recently redesigned so it is no longer an issue. Note: Steam releases can have a 26- to 36-hour duration.

C. General Questions

i. Are you aware of any activities or planned activities in the plant area that might have environmental impacts that are similar to, and so cumulative with, plant environmental impacts (if "yes" please explain)? No

No

ii. Are you familiar with the 92 environmental issues that NRC identified as associated with license renewal? Yes

If so, are you aware of any issues that NRC overlooked or findings that are incorrect as applied to this plant (if "yes" please explain)? No

iii. Have any regulatory agencies or members of the public or public interest groups that you are aware of expressed concern about current or renewed plant operations (if "yes" please explain)? No

No

D. Interview Identification

Interviewer: Kristi Hagood Interview Date: 08/16/11

Other Attendees: Karen Patterson Niki Hill Interview Location: Hawthorn Room

Nancy Ranek Phil Moore

Issue and Discussion: 58. Noise Category: 1

A. Interviewee Identification:

Name: John Petro Telephone: (630) 657-3209

Organization: Exelon Nuclear Environmental Education: BS Biology and Chemistry

Responsibilities: NPDES and other water permits, wildlife Years Experience: Here: 16
Other: 37

B. Issue-Specific Questions

i. Has this particular issue been of concern at this plant (if "yes" please explain?) No

No

ii. How would you characterize the environmental impact associated with this issue at this plant?

SMALL

iii. NRC characterized the environmental impact associated with this issue a SMALL

Do you agree with the NRC findings for this issue (if "no," please explain)? Yes

iv. Basis for response:

There have been a few noise complaints but nothing major.

v. Additional comments:

On some occasions, the public has contacted the plant about the noise of some plant activities. Noise issues at the plant have included steam releases, the circulating water make-up pumps and the discharge at the river. The discharge has been recently redesigned so it is no longer an issue. Note: Steam releases can have a 26- to 36-hour duration.

C. General Questions

i. Are you aware of any activities or planned activities in the plant area that might have environmental impacts that are similar to, and so cumulative with, plant environmental impacts (if "yes" please explain)? No

No

ii. Are you familiar with the 92 environmental issues that NRC identified as associated with license renewal? No

If so, are you aware of any issues that NRC overlooked or findings that are incorrect as applied to this plant (if "yes" please explain)? No

iii. Have any regulatory agencies or members of the public or public interest groups that you are aware of expressed concern about current or renewed plant operations (if "yes" please explain)? No

No

D. Interview Identification

Interviewer: Kristi Hagood Interview Date: 08/16/11

Other Attendees: Karen Patterson Niki Hill Interview Location: Hawthorn Room

Nancy Ranek Phil Moore

Issue and Discussion: 58. Noise Category: 1

A. Interviewee Identification:

Name: Neal Miller Telephone: (815) 417-3184

Organization: Communications Dept. Braidwood Education: 2 yrs of college

Responsibilities: Internal/external communications Years Experience: Here: 26
Other: 4

B. Issue-Specific Questions

i. Has this particular issue been of concern at this plant (if "yes" please explain?) No

No

ii. How would you characterize the environmental impact associated with this issue at this plant?

SMALL

iii. NRC characterized the environmental impact associated with this issue a SMALL

Do you agree with the NRC findings for this issue (if "no," please explain)? Yes

iv. Basis for response:

Years of experience at this plant.

v. Additional comments:

On some occasions, the public has contacted the plant about the noise of some plant activities. However, plant communications folks educate the public on the nature and anticipated duration of the plant's noisier activities and this usually resolves the issue. Prior to activities such as security drills and steam releases, plant communications folks notify the public about the impending activity and the potential for noise. Note: Steam releases can have a 26- to 36-hour duration. Security drills occur annually.

Added by Kristi Hagood - The plant has a notification system. Everyone in the towns of Braidwood and Godley that are located within 1-mile of the plant are included in the noticification system but can opt out of it if they want to. The residents were notified about the system by mail. The notification system is used to notify residents about things such as security drills and other things like this that they may be concerned about.

C. General Questions

i. Are you aware of any activities or planned activities in the plant area that might have environmental impacts that are similar to, and so cumulative with, plant environmental impacts (if "yes" please explain)? No

No

ii. Are you familiar with the 92 environmental issues that NRC identified as associated with license renewal? No

If so, are you aware of any issues that NRC overlooked or findings that are incorrect as applied to this plant (if "yes" please explain)? No

iii. Have any regulatory agencies or members of the public or public interest groups that you are aware of expressed concern about current or renewed plant operations (if "yes" please explain)? No

No

D. Interview Identification

Interviewer: Niki Hill Interview Date: 08/17/11

Other Attendees:	Karen Patterson	Nancy Ranek	Interview Location:	Hawthorn Room
	Kristi Hagood	Phil Moore		

Braidwood Environmental Audit – Request for Additional Information Response

Question #: MET-15 Category: Meteorology, Air Quality, and Noise

Statement of Question:

Identify nearby noise-sensitive receptors (e.g., residences, school, nursing home, childcare facility) and distance to those receptors.

Response:

Land use surveys are conducted annually in the vicinity of Braidwood Station and reported in the Annual Radiological Environmental Operating Report, in accordance with the Braidwood Station Offsite Dose Calculation Manual. Among other things, the surveys document the nearest residence in each of the sixteen 22.5-degree sectors around the site. In 2012, residences were reported at the distances from Braidwood Station listed below.

Distance in Miles from Braidwood Station Reactor Buildings

Sector	Distance to Nearest Residence (mi)	Sector	Distance to Nearest Residence (mi)
N	0.5	S	4.2
NNE	0.9	SSW	1.3
NE	0.7	SW	0.4
ENE	0.8	WSW	0.5
E	1.5	W	0.4
ESE	2.2	WNW	0.4
SE	2.7	NW	0.4
SSE	4.5	NNW	0.4

Schools and libraries known to be located within 2 miles of Braidwood Station are:

Braidwood Elementary School	~ 1.5 mi
Reed-Custer Middle School	~ 1.3 mi
Reed-Custer High School	~ 1.5 mi
Fossil Ridge Public Library	~ 1 mi

No other noise-sensitive receptors are known to be located within 2 miles of Braidwood Station.

List Attachments Provided:

None

Braidwood Environmental Audit – Request for Additional Information Response

Question #: ALT-1 Category: Alternatives

Statement of Question:

Provide a copy of the calculation packages referenced in Section 7 of the ER as Tetra Tech 2012d, Air Emissions and Solid Waste from Coal- and Gas-Fired Alternatives for Braidwood Units 1 and 3; Chapter 7 Energy Alternatives Calculation Package, September 19, 2012; and Tetra Tech 2012e, Employment and Land Requirements for Alternatives to Byron Units 1 and 2 and Braidwood Units 1 and 2, LR Chapter 7 Energy Alternatives Calculation Package, September 18, 2012.

Response:

The requested documents are attached.

List Attachments Provided:

1. Tetra Tech 2012d; Air Emissions and Solid Waste from Coal- and Gas-Fired Alternatives for Braidwood Units 1 and 3; Chapter 7 Energy Alternatives Calculation Package, September 19, 2012

2. Tetra Tech 2012e, Employment and Land Requirements for Alternatives to Byron Units 1 and 2 and Braidwood Units 1 and 2, LR Chapter 7 Energy Alternatives Calculation Package, September 18, 2012

Braidwood Environmental Audit – Request for Additional Information Response

Question #: R-1 Category: Refurbishment

Statement of Question:

Clarify the factors influencing whether Unit 2 steam generator replacement would occur and whether this hypothetical activity should be considered refurbishment. Also briefly describe contributing factors discussed during the audit (i.e., water chemistry program and improved design features of Unit 2 steam generator).

Response:

The Braidwood Unit 2 steam generators tubes are fabricated from thermally treated Alloy 600 (A600TT) tubing. Industry documents and experience indicates that A600TT tubing is subject to cracking and corrosion during the original lifetime of the steam generators. Braidwood Unit 2 has experienced tube cracking in high stress tubing and at the tube end welds. The tube end cracking has been addressed and is not an issue. Tube cracking in other areas, such as top of the tubesheet, tube support plate intersections, freespan, U-bend regions and dents are predicted to occur and possibly impact a 60 year service life of the steam generators. While a global degradation mechanism has not occurred in the Braidwood Unit 2 steam generators, it is a high probability that such a mechanism would initiate in the future because, as the units age, the steam generators become more susceptible to various degradation mechanisms that have not yet been experienced and existing degradation mechanisms may accelerate or progress. Therefore, long term management plans have been revised to show the possibility for steam generator replacement within approximately 10 years for Braidwood Unit 2. The dates may be adjusted based on the actual degradation initiation rates yet to be experienced.

Exelon Generation maintains a Steam Generator Inspection Program, which addresses existing and potential degradation mechanisms of the Braidwood Unit 2 steam generators such as tube wear, baffle plate/support plate wear, and tube sheet corrosion and scaling. To reduce the potential for stress corrosion cracking , other measures have been implemented including reduction of the primary coolant hot leg temperature, changing the material used for mechanical tube plugs to a more corrosion resistant alloy, implementation of secondary water chemistry molar ratio control, and implementation of primary zinc addition. An inspection program has also been implemented at Braidwood Unit 2 to look for stress corrosion cracking or other degradation mechanisms that may impact the integrity of the tubes so that degraded tubes can be removed from service. Periodic sludge lancing and inspection of the secondary side of the steam generator is performed. Chemical cleaning and on-line dispersant addition are actions being taken to mitigate corrosion by reducing tube deposits, hard scale, tube fouling, blocked quatrefoil flow holes and detrimental crevice chemistry. Present experience at Braidwood Unit 2 has shown manageable levels of degradation that are not expected to impact long-term health of the steam generators. Notwithstanding, repair and replacement options are being investigated as final options for mitigating steam generator degradation.

Exelon Generation chose to assess in the Braidwood License Renewal ER impacts of possible steam generator replacement because the decision to replace the Unit 2 steam generator will ultimately depend on the success of the other mitigation measures and monitoring already in progress to address "degradation mechanisms" (i.e., aging). The link between the potential steam generator replacement and plant aging mechanisms, in conjunction with the possibility that the potential replacement might be needed at a time roughly coincident with the end of the current licensed term for Braidwood suggested that an analysis of the replacement activity as hypothetical refurbishment would be prudent.

List Attachments Provided:

None

Braidwood Environmental Audit – Request for Additional Information Response

Question #: R-2 Category: Refurbishment

Statement of Question:

In support of NRC's analysis of the impacts of Unit 2 steam generator replacement, clarify:

(a) How many temporary or permanent buildings will be constructed to support steam generator replacement activities?

(b) What is the estimated footprint (ft^2) of new buildings to be constructed? What is the estimated depth of excavation?

Response:

a.) The only building likely to be constructed to support Unit 2 steam generator replacement activities is the storage building for the old steam generators. Temporary office trailers may be staged near the construction site.

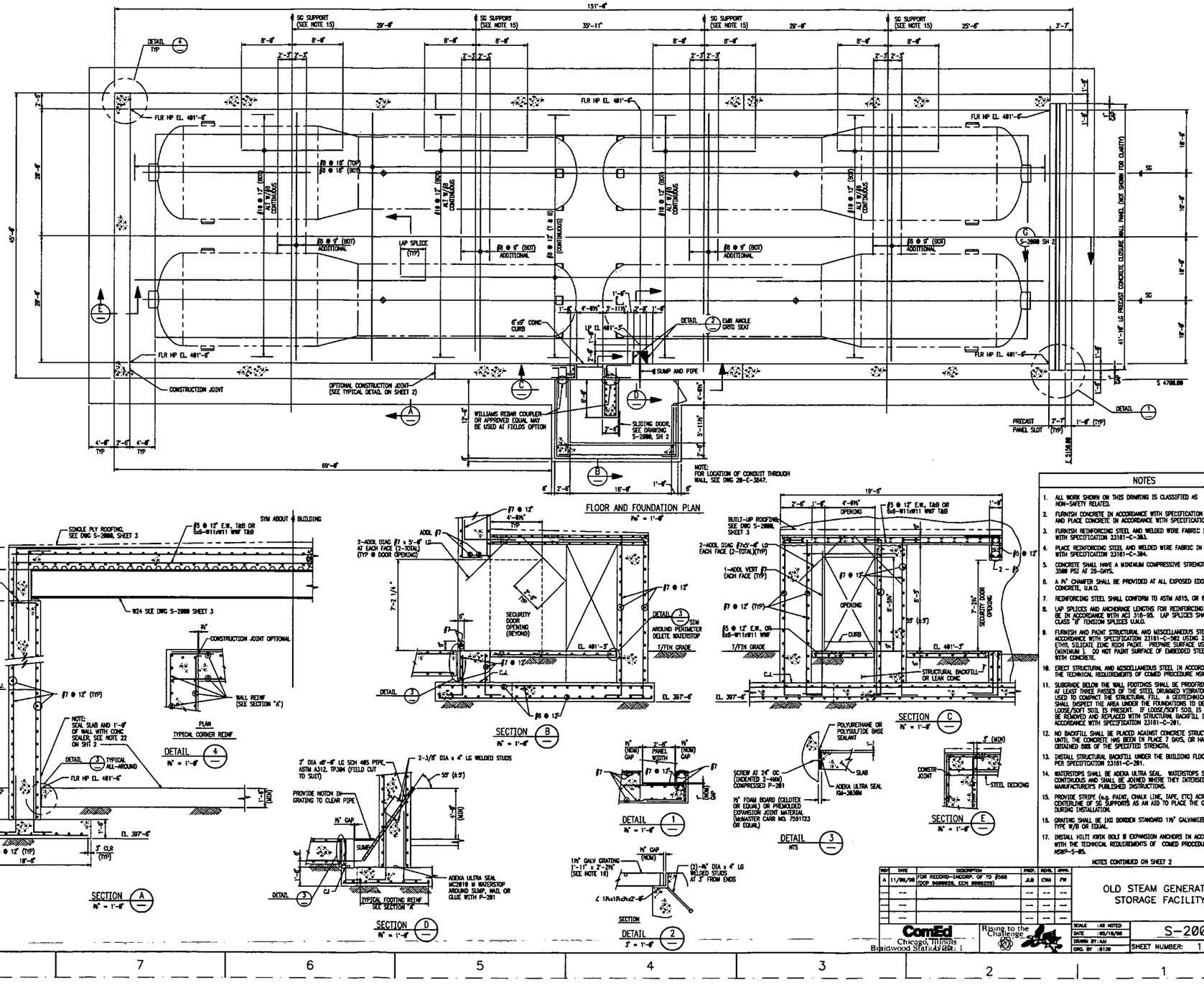
b.) The estimated footprint (ft^2) of the new Unit 2 steam generator storage building would be approximately 7,000 ft^2. The footings will extend about 4 ft beyond the building walls making the footprint of the structure approximately 8,500 ft^2. The building would also have an entrance vestibule that would occupy approximately 200 ft^2.

The estimated depth of the excavation would be approximately 4 ft.

The building plan drawing for the existing Unit 1 steam generator storage building is attached to this response as an example of the likely design if a Unit 2 steam generator storage building were built.

List Attachments Provided:

1. ComEd Drawing S-2000, Old Steam Generator Storage Facility.



NOTES

1. ALL WORK SHOWN ON THIS DRAWING IS CLASSIFIED AS NON-SAFETY RELATED.
2. FURNISH CONCRETE IN ACCORDANCE WITH SPECIFICATION 23161-C-381 AND PLACE CONCRETE IN ACCORDANCE WITH SPECIFICATION 23161-C-382.
3. FURNISH REINFORCING STEEL AND WELDED WIRE FABRIC IN ACCORDANCE WITH SPECIFICATION 23161-C-383.
4. PLACE REINFORCING STEEL AND WELDED WIRE FABRIC IN ACCORDANCE WITH SPECIFICATION 23161-C-384.
5. CONCRETE SHALL HAVE A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28-DAYS.
6. A ¾" CHAMFER SHALL BE PROVIDED AT ALL EXPOSED EDGES OF CONCRETE, U.N.O.
7. REINFORCING STEEL SHALL CONFORM TO ASTM A615, GR 60.
8. LAP SPLICES AND ANCHORAGE LENGTHS FOR REINFORCING STEEL SHALL BE IN ACCORDANCE WITH ACI 318-95. LAP SPLICES SHALL BE CLASS "B" TENSION SPLICES U.N.O.
9. FURNISH AND PAINT STRUCTURAL AND MISCELLANEOUS STEEL IN ACCORDANCE WITH SPECIFICATION 23161-C-502 USING 2 COMPONENT ETHYL SILICATE ZINC RICH PAINT. PREPARE SURFACE USING SSPC SP-6 (MINIMUM). DO NOT PAINT SURFACE OF EMBEDDED STEEL IN CONTACT WITH CONCRETE.
10. ERECT STRUCTURAL AND MISCELLANEOUS STEEL IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS OF COMED PROCEDURE NSWP-S-03.
11. SUBGRADE BELOW THE WALL FOOTINGS SHALL BE PROOFROLLED WITH AT LEAST THREE PASSES OF THE STEEL DRUMMED VIBRATORY ROLLER USED TO COMPACT THE STRUCTURAL FILL. A GEOTECHNICAL ENGINEER SHALL INSPECT THE AREA UNDER THE FOUNDATIONS TO DETERMINE IF LOOSE/SOFT SOIL IS PRESENT. IF LOOSE/SOFT SOIL IS FOUND, IT SHALL BE REMOVED AND REPLACED WITH STRUCTURAL BACKFILL IN ACCORDANCE WITH SPECIFICATION 23161-C-201.
12. NO BACKFILL SHALL BE PLACED AGAINST CONCRETE STRUCTURES UNTIL THE CONCRETE HAS BEEN IN PLACE 7 DAYS, OR HAS OBTAINED 60% OF THE SPECIFIED STRENGTH.
13. INSTALL STRUCTURAL BACKFILL UNDER THE BUILDING FLOOR SLABS PER SPECIFICATION 23161-C-201.
14. WATERSTOPS SHALL BE ADEKA ULTRA SEAL. WATERSTOPS SHALL BE CONTINUOUS AND SHALL BE JOINED WHERE THEY INTERSECT PER MANUFACTURER'S PUBLISHED INSTRUCTIONS.
15. PROVIDE STRIPE (e.g. PAINT, CHALK LINE, TAPE, ETC) ACROSS FLOOR AT CENTERLINE OF SG SUPPORTS AS AN AID TO PLACE THE GENERATORS DURING INSTALLATION.
16. GRATING SHALL BE IKG BORDEN STANDARD 1¾" GALVANIZED GRATING TYPE W/B OR EQUAL.
17. INSTALL KILTI KWIK BOLT III EXPANSION ANCHORS IN ACCORDANCE WITH THE TECHNICAL REQUIREMENTS OF COMED PROCEDURE NSWP-S-05.

NOTES CONTINUED ON SHEET 2

REV	DATE	DESCRIPTION	PREP.	REVIS.	APPR.
A	11/06/98	FOR RECORD-INCORP. OF TO #568 (DCP 9888826, ECN 9898229)	JLB	CWA	FW
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ComEd
Chicago, Illinois
Braidwood Station Unit: 1

Rising to the Challenge

OLD STEAM GENERATOR STORAGE FACILITY

SCALE: AS NOTED
DATE: 05/19/98
DRAWN BY: AJJ
CHKD. BY: BISB

S-2000

SHEET NUMBER: 1 SIZE: F S00