

July 26, 2018
L-18-181

Department of Environmental Protection
Bureau of Water Quality Management
Attention: DMR Clerk
400 Waterfront Drive
Pittsburgh, PA 15222

SUBJECT:
Beaver Valley Power Station Discharge Monitoring Report (NPDES) Permit No. PA0025615

Enclosed is the June 2018 NPDES Discharge Monitoring Report (DMR) for FirstEnergy Nuclear Operating Company (FENOC), Beaver Valley Power Station (BVPS), in accordance with the requirements of the Permit. Attachment 1 to this letter is supplemental monitoring data for Outfall 001 (dissolved oxygen).

A review of the data indicates no permit parameters were exceeded during the month.

Included with this report are two Supplemental Laboratory Accreditation Forms for analyses performed to support permit requirements as required by 25 Pa. Code § 252.

Should you have any questions regarding the attached and enclosed documents, please direct them to Ms. Kelsy McKee, at 724-682-4218.

Sincerely,



Rod L. Penfield
General Plant Manager

IEZ5
NRR

Beaver Valley Power Station, Unit Nos. 1 and 2
L-18-181
Page 2

Attachment(s):

1. Weekly Dissolved Oxygen Monitoring Results at Outfall 001

Enclosure(s)

- A. Discharge Monitoring Report
- B. Supplemental Laboratory Accreditation Form

cc: Document Control Desk US NRC (*NOTE: No new US NRC commitments are contained in this letter.*)
US Environmental Protection Agency
Ms. Amanda Schmidt, PA DEP/Bureau of Water Quality Management



pennsylvania
DEPARTMENT OF ENVIRONMENTAL PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF WATER STANDARDS AND FACILITY REGULATION

SUPPLEMENTAL LABORATORY ACCREDITATION FORM¹

Permittee Name: <u>FirstEnergy Nuclear Operating Company</u>							
Address: <u>P.O. Box 4</u>							
<u>Shippingport, PA 15077</u>							
<u>Beaver Valley Power Station</u>							
PERMIT NUMBER				MONITORING PERIOD Year/Month/Day			
PA0025615				2018	06	01	TO 2018 06 30
PARAMETER	ANALYSIS METHOD	LAB NAME	LAB ID NUMBER²				
Zinc	EPA 200.7 Rev 4.4	FirstEnergy Corp-Beta Lab	68-01120				
Copper	EPA 200.7 Rev 4.4	FirstEnergy Corp-Beta Lab	68-01120				
Iron	EPA 200.7 Rev 4.4	FirstEnergy Corp-Beta Lab	68-01120				
Chromium	EPA 200.7 Rev 4.4	FirstEnergy Corp-Beta Lab	68-01120				
Ammonia	SM 4500 NH3 F	FirstEnergy Corp-Beta Lab	68-01120				
Cyanide	SM 4500-CN E[11 th]	FirstEnergy Corp-Beta Lab	68-01120				
Chlorobenzene	EPA 624	Test American-Canton Lab	68-00340				
Oil and Grease	EPA 1664 Rev A	FirstEnergy Corp-Beta Lab	68-01120				
Oil and Grease	EPA 1664 Rev A	PACE Analytical Services	65-00282				
Total Dissolved Solids	SM 2540 C *	FirstEnergy Corp-Beta Lab	68-01120				
Total Suspended Solids	SM 2540 D *	FirstEnergy Corp-Beta Lab	68-01120				
		* 2012 EPA Method Update Rule (MUR) no longer cites Standard Method editions					

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

Name/Title Principal Executive Officer

Phone: 724-682-7773

**Signature of Principal Executive Officer or
Authorized Agent**

Rod L. Penfield
General Plant Manager

Date: 7/24/18

¹ Submit this form with the first Discharge Monitoring Report (DMR), Annual Report or Recordkeeping and Reporting Form, where sample results are submitted to the Department for compliance purposes. You do not need to send this form to the Department again UNLESS there has been a change to the lab or method of analysis.

² For parameter(s) covered under accreditation-by-rule, submit the lab's registration number in lieu of an accreditation number.



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PERMIT NUMBER				MONITORING PERIOD Year/Month/Day			
PA0025615				2018	06	01	TO 2018 06 30
PARAMETER	ANALYSIS METHOD	LAB NAME	LAB ID NUMBER²				
Total Residual Chlorine	SM 4500-CL G [20 th]	Beaver Valley Power Station	04-2742				
Free Available Chlorine	SM 4500-CL G [20 th]	Beaver Valley Power Station	04-2742				
pH	SM 4500-H+ B [20 th]	Beaver Valley Power Station	04-2742				
Temperature	SM 2550 B [20 th]	Beaver Valley Power Station	04-2742				
Flow	NA	Beaver Valley Power Station	04-2742				
Total Suspended Solids (TSS)	SM 2540 D [20 th]	Beaver Valley Power Station	04-2742				
Quaternary Amine Compounds	Photometric Determination 1/2-CHM-ANA-4.23H	Beaver Valley Power Station	04-2742				
Bentonite Detoxicant	Estimated using feed rate and discharge flow rate per NPDES Permit PA0025645	Beaver Valley Power Station	04-2742				
Hydrazine	ASTM D1385-01	Beaver Valley Power Station	04-2742				

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Rod L. Penfield
General Plant Manager

Phone: 724-682-7773

Date: 7/24/18

**Signature of Principal Executive Officer or
Authorized Agent**

[Signature]

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**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	SAMPLE MEASUREMENT	***	***		***	***	7.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	***	Monitor & Report IMAX	mg/L	Monitor & Report	Monitor & Report
pH (00400)	SAMPLE MEASUREMENT	***	***		8.3	***	8.4		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***	GG	GG		Not Reported	Not Reported
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	GG	GG		Not Reported	Not Reported
	PERMIT REQUIREMENT	***	***		***	.034 Avg Mo	.034 Daily Max	mg/L	See Permit	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	32	44.9		***	***	***		Continuous	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	5 Avg Mo	1.25 IMAX	mg/L	1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		Continuous	Recorded
	PERMIT REQUIREMENT	***	***		***	2 Avg Mo	5 Daily Max	mg/L	Continuous	Recorded

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		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Hydrazine (81313)	SAMPLE MEASUREMENT	***	***		***	GG	GG	mg/L	Not Reported	Not Reported
	PERMIT REQUIREMENT	***	***		***	.007 Avg Mo	.007 Daily Max		1/week	Grab
Facility Comments										

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 ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

002
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	TO	2018	06	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.006	.046	MGD	***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Estimate
Facility Comments										

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 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
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 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

003
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 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD						
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2018	06	01	TO	2018	06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.159	.185		***	***	***		6/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										

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YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX	mg/L	1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	2 Avg Mo	5 Daily Max	mg/L	1/week	Grab
Facility Comments										

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006
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 DMR Effective To: 06/30/2018
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 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.002	.016	MGD	***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Estimate
Facility Comments										

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 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

007
OUTFALL NUMBER

Reporting Frequency: Monthly
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 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	.5	1.25	mg/L		
	PERMIT REQUIREMENT	***	***		***	Avg Mo	IMAX		1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	.2	.5	mg/L		
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max		1/week	Grab
Facility Comments										

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008
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 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.0	***	9.0	S.U.		
	PERMIT REQUIREMENT	***	***		Inst Min	***	IMAX		2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

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 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
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PA0025615
PERMIT NUMBER

010
OUTFALL NUMBER

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PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.6	***	8.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	GG	GG		Not Reported	Not Reported
	PERMIT REQUIREMENT	***	***		***	.001 Avg Mo	.001 Daily Max	mg/L	Daily when Discharging	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	3.46	4.32		***	***	***		1/week	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.02	.03		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX	mg/L	1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 Daily Max	mg/L	1/week	Grab
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PA0025615
PERMIT NUMBER

011
OUTFALL NUMBER

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MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	TO	2018	06	30	

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.004	.004	MGD	***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Estimate
Facility Comments										

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PA0025615
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OUTFALL NUMBER

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PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		8.5	***	8.5		1/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/month	Grab
Copper, Total (01042)	SAMPLE MEASUREMENT	***	***		***	.0863	.1444		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	Grab
Zinc, Total (01092)	SAMPLE MEASUREMENT	***	***		***	.4	.7		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	1.5 Avg Mo	1.5 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	<.001	<.001		***	***	***		1/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/month	Estimate
Total Dissolved Solids (70295)	SAMPLE MEASUREMENT	***	***		***	876	1240		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	Grab
Facility Comments										

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 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.9	***	7.8		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 MAX	S.U.	1/week	Grab
Cyanide, Total (00720)	SAMPLE MEASUREMENT	***	***		***	<.01	<.01		3/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	24-Hr Composite
Chlorobenzene (34301)	SAMPLE MEASUREMENT	***	***		***	<.005	<.005		2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	24-Hr Composite
Copper, Total (01042)	SAMPLE MEASUREMENT	***	***		***	<.0104	.0108		2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
STAGE: Final Effluent

PA0025615	101	Reporting Frequency: <u>Monthly</u>
PERMIT NUMBER	OUTFALL NUMBER	DMR Effective From: <u>06/01/2018</u>
		DMR Effective To: <u>06/30/2018</u>
		Permit Expires: <u>12/27/2006</u>
		Permit Application Due: <u>06/30/2006</u>
		No Discharge: <input checked="" type="checkbox"/>

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Composite
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		Continuous	Measured
Hydrazine (81313)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	1/week	Grab
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615	102
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.7	***	8.0		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	19.5	24.0		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	<.001	<.001		***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615	103
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	06	01		2018	06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.5	***	7.5		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.0	<4.0		2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	.159	.185		***	***	***		6/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

111
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.0	***	7.8		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<6.7	14.4		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
STAGE: Final Effluent

PA0025615
PERMIT NUMBER

113
OUTFALL NUMBER

Reporting Frequency: Monthly
DMR Effective From: 06/01/2018
DMR Effective To: 06/30/2018
Permit Expires: 12/27/2006
Permit Application Due: 06/30/2006
No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.0	***	9.0	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		Inst Min	***	MAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	30.0	60.0	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Flow (50050)	SAMPLE MEASUREMENT	***	***	MGD	***	***	***		1/week	Measured
	PERMIT REQUIREMENT	.043 Avg Mo	Monitor & Report Daily Max		***	***	***			
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	1.4	3.3	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	MAX			
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***	200	***	No./100 ml	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Geo Mean	***			
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	***	***		***	25.0	50.0	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615	203
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	06	01		2018	06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***		S.U.		
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***			mg/L		
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	60.0 Daily Max		2/month	8-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT			MGD	***	***	***			
	PERMIT REQUIREMENT	.023 Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***			mg/L		
	PERMIT REQUIREMENT	***	***		***	1.4 Avg Mo	3.3 IMAX		2/month	Grab
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***			No./100 ml		
	PERMIT REQUIREMENT	***	***		***	200 Geo Mean	***		2/month	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	***	***		***			mg/L		
	PERMIT REQUIREMENT	***	***		***	25.0 Avg Mo	50.0 Daily Max		2/month	8-Hr Composite
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

211
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.0	***	7.6		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<5.7	8.4		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
STAGE: Final Effluent

PA0025615
PERMIT NUMBER

213
OUTFALL NUMBER

Reporting Frequency: Monthly
DMR Effective From: 06/01/2018
DMR Effective To: 06/30/2018
Permit Expires: 12/27/2006
Permit Application Due: 06/30/2006
No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.0	***	9.0	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		Inst Min	***	IMAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	30.0	100.0	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	15	20	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Flow (50050)	SAMPLE MEASUREMENT			MGD	***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***			
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	.5	1.25	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	IMAX			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

301
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<7.0	10.0		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	<.001	<.001		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
 STAGE: Final Effluent

PA0025615	303
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615				313			
PERMIT NUMBER				OUTFALL NUMBER			

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.9	***	7.8		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<6.0	8.8		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

401
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		9.3	***	***		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	***	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.0	<4.0		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	<.001	<.001		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

403
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD							
FROM				TO			
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01		2018	06	30	

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.0	***	9.0	S.U.	1/week	Grab
	PERMIT REQUIREMENT	***	***		Inst Min	***	IMAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	30.0	100.0	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	15	20	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***	Monitor & Report	Monitor & Report	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	.001	.001	mg/L	Daily when Discharging	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Flow (50050)	SAMPLE MEASUREMENT	***	***	MGD	***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report	Monitor & Report		***	***	***			
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	.5	1.25	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	IMAX			
Hydrazine (81313)	SAMPLE MEASUREMENT	***	***		***	.001	.001	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

413
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD								
YEAR		MO	DAY		YEAR		MO	DAY
2018		06	01		2018		06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.0	***	9.0	S.U.	1/week	Grab
	PERMIT REQUIREMENT	***	***		Inst Min	***	IMAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
 STAGE: Final Effluent

PA0025615	501
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	TO	2018	06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

COMMENT DETAILS

COMMENT	OPERATOR NAME	OPERATOR CERTIFICATION NUMBER	OPERATOR CONTACT NUMBER
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**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
STAGE: Final Effluent

PA0025615
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly
DMR Effective From: 06/01/2018
DMR Effective To: 06/30/2018
Permit Expires: 12/27/2006
Permit Application Due: 06/30/2006
No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	SAMPLE MEASUREMENT	***	***		***	***	7.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	***	Monitor & Report IMAX	mg/L	Monitor & Report	Monitor & Report
pH (00400)	SAMPLE MEASUREMENT	***	***		8.3	***	8.4		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***	GG	GG		Not Reported	Not Reported
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	GG	GG		Not Reported	Not Reported
	PERMIT REQUIREMENT	***	***		***	.034 Avg Mo	.034 Daily Max	mg/L	See Permit	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	32	44.9		***	***	***		Continuous	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX	mg/L	1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		Continuous	Recorded
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 Daily Max	mg/L	Continuous	Recorded

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Hydrazine (81313)	SAMPLE MEASUREMENT	***	***		***	GG	GG		Not Reported	Not Reported
	PERMIT REQUIREMENT	***	***		***	.007 Avg Mo	.007 Daily Max	mg/L	1/week	Grab
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

002
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	TO	2018	06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.006	.046		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

003
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	TO	2018	06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.159	.185		***	***	***		6/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

004
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***							
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX	mg/L	1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 Daily Max	mg/L	1/week	Grab
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

006
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	TO	2018	06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.002	.016	MGD	***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
 PERMIT NUMBER

007
 OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min	***	9.0 IMAX	S.U.	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX	mg/L	1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	2 Avg Mo	5 Daily Max	mg/L	1/week	Grab
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

008
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.0	***	9.0	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		Inst Min	***	IMAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***			mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max			
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***			mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max			
Flow (50050)	SAMPLE MEASUREMENT				***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
STAGE: Final Effluent

PA0025615
PERMIT NUMBER

010
OUTFALL NUMBER

Reporting Frequency: Monthly
DMR Effective From: 06/01/2018
DMR Effective To: 06/30/2018
Permit Expires: 12/27/2006
Permit Application Due: 06/30/2006
No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.6	***	8.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	GG	GG		Not Reported	Not Reported
	PERMIT REQUIREMENT	***	***		***	.001 Avg Mo	.001 Daily Max	mg/L	Daily when Discharging	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	3.46	4.32		***	***	***		1/week	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.02	.03		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX	mg/L	1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 Daily Max	mg/L	1/week	Grab
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

011
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.004	.004		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

012
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	TO	2018	06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		8.5	***	8.5	S.U.	1/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		1/month	Grab
Copper, Total (01042)	SAMPLE MEASUREMENT	***	***		***	.0863	.1444	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Zinc, Total (01092)	SAMPLE MEASUREMENT	***	***		***	.4	.7	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	1.5 Avg Mo	1.5 Daily Max		2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	<.001	<.001	MGD	***	***	***		1/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/month	Estimate
Total Dissolved Solids (70295)	SAMPLE MEASUREMENT	***	***		***	876	1240	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

013
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
2018	06	01	2018	06	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.9	***	7.8		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 MAX	S.U.	1/week	Grab
Cyanide, Total (00720)	SAMPLE MEASUREMENT	***	***		***	<.01	<.01		3/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	24-Hr Composite
Chlorobenzene (34301)	SAMPLE MEASUREMENT	***	***		***	<.005	<.005		2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	24-Hr Composite
Copper, Total (01042)	SAMPLE MEASUREMENT	***	***		***	<.0104	.0108		2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
 STAGE: Final Effluent

PA0025615	101	Reporting Frequency: <u>Monthly</u>
PERMIT NUMBER	OUTFALL NUMBER	DMR Effective From: <u>06/01/2018</u>
		DMR Effective To: <u>06/30/2018</u>
		Permit Expires: <u>12/27/2006</u>
		Permit Application Due: <u>06/30/2006</u>
		No Discharge: <input checked="" type="checkbox"/>

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	06	01		2018	06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.0	***	9.0	S.U.	1/week	Grab
	PERMIT REQUIREMENT	***	***		Inst Min	***	IMAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	30.0	100.0	mg/L	1/week	Composite
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	15	20	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***	Monitor & Report	Monitor & Report	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Flow (50050)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	Monitor & Report	Monitor & Report	MGD	***	***	***		Continuous	Measured
Hydrazine (81313)	SAMPLE MEASUREMENT	***	***		***	Monitor & Report	Monitor & Report	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

102
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.7	***	8.0		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	19.5	24.0		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	<.001	<.001		***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

103
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	06	01		2018	06	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.5	***	7.5	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.0	<4.0	mg/L	2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max		2/month	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	.159	.185	MGD	***	***	***		6/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		2/month	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

111
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.0	***	7.8		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<6.7	14.4		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH, 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

113
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.0	***	9.0	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		Inst Min	***	MAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	***	***	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	60.0 Daily Max			
Flow (50050)	SAMPLE MEASUREMENT	***	***		***	***	***		1/week	Measured
	PERMIT REQUIREMENT	.043 Avg Mo	Monitor & Report Daily Max	MGD	***	***	***			
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	***	***	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	1.4 Avg Mo	3.3 MAX			
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***	***	***	No./100 ml	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	200 Geo Mean	***			
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	***	***		***	***	***	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	25.0 Avg Mo	50.0 Daily Max			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

203
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.0	***	9.0	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		Inst Min	***	IMAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	***	***	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	60.0 Daily Max			
Flow (50050)	SAMPLE MEASUREMENT	***	***	MGD	***	***	***		1/week	Measured
	PERMIT REQUIREMENT	.023 Avg Mo	Monitor & Report Daily Max		***	***	***			
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	***	***	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	1.4 Avg Mo	3.3 IMAX			
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***	***	***	No./100 ml	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	200 Geo Mean	***			
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	***	***		***	***	***	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	25.0 Avg Mo	50.0 Daily Max			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

211
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.0	***	7.6		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<5.7	8.4		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615	213
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD								
YEAR		MO	DAY		YEAR		MO	DAY
2018		06	01		2018		06	30
FROM				TO				

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***		S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max			
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	***	***			
Flow (50050)	SAMPLE MEASUREMENT			MGD	***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***			
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	.5 Avg Mo	1.25 IMAX	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	***	***			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
STAGE: Final Effluent

PA0025615
PERMIT NUMBER

301
OUTFALL NUMBER

Reporting Frequency: Monthly
DMR Effective From: 06/01/2018
DMR Effective To: 06/30/2018
Permit Expires: 12/27/2006
Permit Application Due: 06/30/2006
No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<7.0	10.0		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	<.001	<.001		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

303
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

313
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	TO	2018	06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.9	***	7.8		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<6.0	8.8		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

401
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		9.3	***	***		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	***	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.0	<4.0		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	<.001	<.001		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
STAGE: Final Effluent

PA0025615	403	Reporting Frequency: <u>Monthly</u>
PERMIT NUMBER	OUTFALL NUMBER	DMR Effective From: <u>06/01/2018</u>
		DMR Effective To: <u>06/30/2018</u>
		Permit Expires: <u>12/27/2006</u>
		Permit Application Due: <u>06/30/2006</u>
		No Discharge: <input checked="" type="checkbox"/>

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	06	01	FROM	2018	06	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	.001 Avg Mo	.001 Daily Max	mg/L	Daily when Discharging	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX	mg/L	1/week	Grab
Hydrazine (81313)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	.001 Avg Mo	.001 Daily Max	mg/L	1/week	Grab
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

413
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01		2018	06	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.0	***	9.0	S.U.	1/week	Grab
	PERMIT REQUIREMENT	***	***		Inst Min	***	IMAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	30.0	100.0	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	15	20	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Flow (50050)	SAMPLE MEASUREMENT			MGD	***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***			
Facility Comments										

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER**

DISCHARGE MONITORING REPORT (DMR)

PERMITEE NAME/ADDRESS

NAME: FIRSTENERGY NUCLEAR OPR CO
 ADDRESS: 76 S MAIN ST, AKRON, OH , 44308
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077
 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

501
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 06/01/2018
 DMR Effective To: 06/30/2018
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	06	01	FROM	2018	06	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										

COMMENT DETAILS

COMMENT	OPERATOR NAME	OPERATOR CERTIFICATION NUMBER	OPERATOR CONTACT NUMBER
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