



Beaver Valley Power Station
200 Shippingport Hill Rd.
P.O. Box 4
Shippingport, PA 15077-0004

May 18, 2022
L-22-132

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 April 2022 NPDES Discharge Monitoring Report (DMR), Chemical Additives Usage Report, Daily Effluent Monitoring Report, Cooling Water Intake Monitoring Report and Supplemental Laboratory Accreditation Forms in accordance with the requirements set forth in the site NPDES permit.

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

Should you have any questions regarding the attached and enclosed documents, please direct them to Amy Savage, at 724-682-7359.

Sincerely,

A handwritten signature in black ink, appearing to read "M. Enos", written over a horizontal line.

Matthew J. Enos
General Plant Manager

1E25
NRR

Beaver Valley Power Station, Unit Nos. 1 and 2
L-22-132
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Enclosure(s):

- A. Monthly Discharge Monitoring Report
- B. Chemical Additives Usage Report
- C. Daily Effluent Monitoring Report
- D. Cooling Water Intake Monitoring Report
- E. Supplemental Laboratory Accreditation Forms

cc: Document Control Desk US NRC (*NOTE: No new US NRC commitments are contained in this letter.*)

L-22-132

ENCLOSURE A



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 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: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2022	04	01	TO	2022	04	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Temperature (deg F) (00011)	Sample Measurement	***	***	***	***	***	87.9	°F	1/day	I-S
	Permit Requirement	***	***		***	***	110 Daily Max		1/day	I-S
pH (00400)	Sample Measurement	***	***	***	7.4	***	7.9	S.U.	1/week	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/week	Grab
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	GG	GG	mg/L		
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	Grab
Phenolics, Total (32730)	Sample Measurement	***	***	***	***	< .01	< .01	mg/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Chromium, Total (01034)	Sample Measurement	***	***	***	***	GG	GG	mg/L		
	Permit Requirement	***	***		***	.2 Avg Mo	.2 Daily Max		1/week	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.007	.008	mg/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Iron, Total (01045)	Sample Measurement	***	***	***	***	1.75	2.6	mg/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Zinc, Total (01092)	Sample Measurement	***	***	***	***	GG	GG	mg/L		
	Permit Requirement	***	***		***	1.0 Avg Mo	1.0 Daily Max		1/week	24-Hr Composite
Aluminum, Total (01105)	Sample Measurement	***	***	***	***	.79	1.2	mg/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Flow (50050)	Sample Measurement	39.6	34.5	MGD	***	***	***	***	Continuous	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	< .02	< .02	mg/L	1/week	Grab
	Permit Requirement	***	***		***	.5 Avg Mo	1.25 IMAX		1/week	Grab
Nalco H150M (51698)	Sample Measurement	***	***	***	***	GG	GG	mg/L		
	Permit Requirement	***	***		***	.034 Avg Mo	.034 Daily Max		1/week	24-Hr Composite
Free Available Chlorine (50064)	Sample Measurement	***	***	***	***	< .02	< .02	mg/L	Continuous	Recorded
	Permit Requirement	***	***		***	.2 Avg Mo	.5 Daily Max		Continuous	Recorded
Mercury, Total (71900)	Sample Measurement	***	***	***	***	< .2	< .2	ug/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Hydrazine (81313)	Sample Measurement	***	***	***	***	GG	GG	mg/L		
	Permit Requirement	***	***		***	.007 Avg Mo	.007 Daily Max		1/week	Grab
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 166 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 166, SHIPPINGPORT PA, 15077
 STAGE: Final Effluent

PA0925615	002
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2022	04	01	FROM	2022	04	30	TO

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	Sample Measurement	.046	.046	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***	***	1/week	Estimate
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 166 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 166, SHIPPINGPORT PA, 15077
 STAGE: Final Effluent

PA9925615	993
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2022	04	01	FROM	2022	04	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	GG	GG	mg/L		
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	Grab
Aluminum, Total (01105)	Sample Measurement	***	***	***	***	1.03	1.8	mg/L	2/month	24-Hr Composite
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	24-Hr Composite
Flow (50050)	Sample Measurement	.172	.209	MGD	***	***	***	***	2/month	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		2/month	Estimate
Nalco H150M (51698)	Sample Measurement	***	***	***	***	GG	GG	mg/L		
	Permit Requirement	***	***		***	.034 Avg Mo	.034 Daily Max		1/week	Grab
Mercury, Total (71900)	Sample Measurement	***	***	***	***	≤ .2	≤ .2	ug/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Hydrazine (81313)	Sample Measurement	***	***	***	***	GG	GG	mg/L		
	Permit Requirement	***	***		***	.007 Avg Mo	.007 Daily Max		1/week	Grab
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Final Effluent

PA0025615		996	
PERMIT NUMBER		OUTFALL NUMBER	

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2022	04	01	TO	2022	04	30	

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☒

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Temperature (deg F) (00011)	Sample Measurement	***	***	***	***	***	***	°F	1/day	I-S
	Permit Requirement	***	***		***	***	110 Daily Max			
pH (00400)	Sample Measurement	***	***	***	***	***	***	S.U.	1/week	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX			
Chromium, Total (01034)	Sample Measurement	***	***	***	***	***	***	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	.2 Avg Mo	.2 Daily Max			
Copper, Total (01042)	Sample Measurement	***	***	***	***	***	***	mg/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max			
Zinc, Total (01092)	Sample Measurement	***	***	***	***	***	***	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	1.0 Avg Mo	1.0 Daily Max			
Aluminum, Total (01105)	Sample Measurement	***	***	***	***	***	***	mg/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max			
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***	1/week	Calculation
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***			
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	***	***	mg/L	1/week	Grab
	Permit Requirement	***	***		***	.5 Avg Mo	1.25 IMAX			
Free Available Chlorine (50064)	Sample Measurement	***	***	***	***	***	***	mg/L	1/week	Grab
	Permit Requirement	***	***		***	.2 Avg Mo	.5 Daily Max			
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Final Effluent

PA0025615	006
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2022	04	01	FROM	2022	04	30 TO

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	Sample Measurement	.016	.016	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Estimate
Facility Sampling Point Comments										



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
STAGE: Final Effluent

PA0025615		007	
PERMIT NUMBER		OUTFALL NUMBER	

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2022	04	01	TO	2022	04	30

Reporting Frequency: Monthly
DMR Effective From: 04/01/2022
DMR Effective To: 04/30/2022
Permit Expires: 10/31/2026
Permit Application Due: 05/04/2026
No Discharge: ☒

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Temperature (deg F) (00011)	Sample Measurement	***	***	***	***	***	***	°F		
	Permit Requirement	***	***		***	***	110 Daily Max		1/day	I-S
pH (00400)	Sample Measurement	***	***	***	***	***	***	S.U.		
	Permit Requirement	***	***		6.0 Incl Min	***	9.0 IMAK		1/week	Grab
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***		
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Estimate
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	***	.20 Daily Max		1/week	Grab
Naico H150M (51698)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	.034 Avg Mo	.034 Daily Max		1/week	Grab
Free Available Chlorine (50064)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	.2 Avg Mo	.5 Daily Max		1/week	Grab
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **ENERGY HARBOR NUCLEAR CORP**
 ADDRESS: **168 E MARKET ST, AKRON OH, 44308-2014**
 FACILITY: **FIRSTENERGY BEAVER VALLEY POWER STATION 1**
 LOCATION: **PA ROUTE 168, SHIPPINGPORT PA, 15077**
 STAGE: **Final Effluent**

PA0025615	010
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: **Monthly**
 DMR Effective From: **04/01/2022**
 DMR Effective To: **04/30/2022**
 Permit Expires: **10/31/2026**
 Permit Application Due: **05/04/2026**
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2022	04	01	TO	2022	04	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Temperature (deg F) (00011)	Sample Measurement	***	***	***	***	***	66.5	°F	1/day	I-S
	Permit Requirement	***	***		***	***	110 Daily Max		1/day	I-S
pH (00400)	Sample Measurement	***	***	***	7.3	***	7.6	S.U.	1/week	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMax		1/week	Grab
Flow (50050)	Sample Measurement	2.90	3.6	MGD	***	***	***	***	1/week	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	***	.19	mg/L	1/week	Grab
	Permit Requirement	***	***		***	***	.20 Daily Max		1/week	Grab
Naico H150M (51698)	Sample Measurement	***	***	***	***	GG	GG	mg/L		
	Permit Requirement	***	***		***	.034 Avg Mo	.034 Daily Max		1/week	24-Hr Composite
Free Available Chlorine (50064)	Sample Measurement	***	***	***	***	< .06	.06	mg/L	1/week	Grab
	Permit Requirement	***	***		***	.2 Avg Mo	.5 Daily Max		1/week	Grab
Mercury, Total (71900)	Sample Measurement	***	***	***	***	< .2	< .2	ug/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Final Effluent

PA0025615	011
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2022	04	01	TO	2022	04	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	Sample Measurement	.004	.004	MSD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Estimate
Mercury, Total (71900)	Sample Measurement	***	***	***	***	≤ .2	≤ .2	ug/l	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Final Effluent

PA0025615	012
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

MONITORING PERIOD											
YEAR				MO				DAY			
FROM				TO							
2022				04				01			
2022				04				30			

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	7.7	***	7.9	S.U.	2/month	Grab
	Permit Requirement	***	***	***	6.0 Inst Min	***	8.0 IMAX	***	2/month	Grab
Cadmium, Total (01027)	Sample Measurement	***	***	***	***	≤ .001	≤ .001	mg/L	2/month	Grab
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	2/month	Grab
Copper, Total (01042)	Sample Measurement	***	***	***	***	.013	.015	mg/L	2/month	Grab
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	2/month	Grab
Zinc, Total (01092)	Sample Measurement	***	***	***	***	.0085	.0092	mg/L	2/month	Grab
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	2/month	Grab
Flow (50050)	Sample Measurement	.001	.001	MGD	***	***	***	***	2/month	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	***	***	***	***	2/month	Estimate
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Final Effluent

PA0025615		013	
PERMIT NUMBER		OUTFALL NUMBER	

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2022	04	01	FROM	2022	04	30	TO

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
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 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	7.4	***	7.5	S.U.	2/month	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		2/month	Grab
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0089	.011	mg/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Flow (50050)	Sample Measurement	.002	.002	MGD	***	***	***	***	2/month	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		2/month	Estimate
Facility Sampling Point Comments										



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

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BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: ENERGY HARBOR NUCLEAR CORP
ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
STAGE: Internal Monitoring Point

PA0025615	101
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2022	04	01		2022	04	30

Reporting Frequency: Monthly
DMR Effective From: 04/01/2022
DMR Effective To: 04/30/2022
Permit Expires: 10/31/2026
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No Discharge: ☐

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	6.8	***	8.0	S.U.	1/week	Grab
	Permit Requirement	***	***	***	6.0 Inst Min	***	9.0 IMAX	***	1/week	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	< 4.0	4.0	mg/L	1/week	Grab
	Permit Requirement	***	***	***	***	30.0 Avg Mo	100.0 Daily Max	***	1/week	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	< 4.4	< 5.2	mg/L	1/week	Grab
	Permit Requirement	***	***	***	***	15.0 Avg Mo	20.0 Daily Max	***	1/week	Grab
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	GG	GG	mg/L	1/week	Grab
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	1/week	Grab
Flow (50050)	Sample Measurement	.007	.008	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	***	***	***	***	1/week	Estimate
Hydrazine (81313)	Sample Measurement	***	***	***	***	GG	GG	mg/L	1/week	Grab
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	1/week	Grab
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 169 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Internal Monitoring Point

PA0025615	102
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

MONITORING PERIOD							
YEAR				MO			
DAY				DAY			
FROM	2022	04	01	TO	2022	04	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	6.9	***	7.2	S.U.	2/month	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		2/month	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	19.6	28.6	mg/L	2/month	Grab
	Permit Requirement	***	***		***	30.0 Avg Mo	100.0 Daily Max		2/month	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	< 4.1	< 4.1	mg/L	2/month	Grab
	Permit Requirement	***	***		***	15.0 Avg Mo	20.0 Daily Max		2/month	Grab
Flow (50050)	Sample Measurement	.001	.001	MGD	***	***	***	***	2/month	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		2/month	Estimate
Facility Sampling Point Comments										



pennsylvania
DEPARTMENT OF ENVIRONMENTAL
PROTECTION

COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: ENERGY HARBOR NUCLEAR CORP
ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
STAGE: Internal Monitoring Point

PA0025615	103
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
DMR Effective From: 04/01/2022
DMR Effective To: 04/30/2022
Permit Expires: 10/31/2026
Permit Application Due: 05/04/2026
No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2022	04	01	TO	2022	04	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	7.0	***	7.2	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	See Permit
	Permit Requirement	***	***		***	30.0 Avg Mo	100.0 Daily Max		2/month	See Permit
Oil and Grease (00556)	Sample Measurement	***	***	***	***	< 4.6	< 5.1	mg/L	2/month	Grab
	Permit Requirement	***	***		***	15.0 Avg Mo	20.0 Daily Max		2/month	Grab
Flow (50050)	Sample Measurement	.133	.256	MGD	***	***	***	***	2/month	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		2/month	Estimate
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Internal Monitoring Point

PA0025615			168		
PERMIT NUMBER			OUTFALL NUMBER		

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2022	04	01	TO	2022	04	30

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☒

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***	Weekly when Discharging	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***			
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	***	***	mg/L	Weekly when Discharging	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max			
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Internal Monitoring Point

PA0025615	111
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2022	04	01	TO	2022	04	30	

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	7.0	***	7.2	S.U.	1/week	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/week	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	≤ 5.1	7.4	mg/L	1/week	Grab
	Permit Requirement	***	***		***	30.0 Avg Mo	100.0 Daily Max		1/week	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	≤ 4.4	≤ 5.1	mg/L	1/week	Grab
	Permit Requirement	***	***		***	15.0 Avg Mo	20.0 Daily Max		1/week	Grab
Flow (50050)	Sample Measurement	.002	.002	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Estimate
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Internal Monitoring Point

PA0025615		211	
PERMIT NUMBER		OUTFALL NUMBER	

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2022	04	01	FROM	2022	04	30	TO

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	6.5	***	7.7	S.U.	1/week	Grab
	Permit Requirement	***	***	***	6.0 Inst Min	***	9.0 IMAX	***	1/week	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	≤ 4.2	4.5	mg/L	1/week	Grab
	Permit Requirement	***	***	***	***	30.0 Avg Mo	100.0 Daily Max	***	1/week	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	≤ 4.4	≤ 5.0	mg/L	1/week	Grab
	Permit Requirement	***	***	***	***	45.0 Avg Mo	20.0 Daily Max	***	1/week	Grab
Flow (50050)	Sample Measurement	.002	.002	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	***	***	***	***	1/week	Estimate
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Internal Monitoring Point

PA0025615	301
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2022	04	01	TO	2022	04	30

FROM

TO

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☒

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
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	***	***		***	15.0 Avg Mo	20.0 Daily Max			
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***			
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Internal Monitoring Point

PA0025615
 PERMIT NUMBER

303
 OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

MONITORING PERIOD																			
YEAR				MO				DAY											
2022				04				01											
FROM				TO				2022				04				30			

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	7.1	***	7.7	S.U.	2/month	Grab
	Permit Requirement	***	***	***	6.0 Inst Min	***	9.0 IMAX	***	2/month	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	< 4.1	4.1	mg/L	2/month	Grab
	Permit Requirement	***	***	***	***	30.0 Avg Mo	100.0 Daily Max	***	2/month	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	< 4.7	< 5.3	mg/L	2/month	Grab
	Permit Requirement	***	***	***	***	15.0 Avg Mo	20.0 Daily Max	***	2/month	Grab
Flow (50050)	Sample Measurement	.042	.056	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	***	***	***	***	1/week	Estimate
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Internal Monitoring Point

PA0025615
 PERMIT NUMBER

313
 OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

MONITORING PERIOD							
YEAR		MO		DAY			
FROM	2022	04	01	TO	2022	04	30

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	6.7	***	7.1	S.U.	1/week	Grab
	Permit Requirement	***	***	***	6.0 Inst Min	***	9.0 IMAX	***	1/week	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	10.5	12.5	mg/L	1/week	Grab
	Permit Requirement	***	***	***	***	30.0 Avg Mo	100.0 Daily Max	***	1/week	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	< 4.5	< 5.3	mg/L	1/week	Grab
	Permit Requirement	***	***	***	***	15 Avg Mo	20 Daily Max	***	1/week	Grab
Flow (50050)	Sample Measurement	.002	.002	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	***	***	***	***	1/week	Estimate
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Internal Monitoring Point

PA0025615
 PERMIT NUMBER

401
 OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2022	04	01		TO	2022	04

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	7.7	***	***	S.U.	2/month	Grab
	Permit Requirement	***	***	***	6.0 Inst Min	***	***	***	2/month	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	< 4.0 Avg Mo	< 4.0 100.0 Daily Max	mg/L	2/month	Grab
	Permit Requirement	***	***	***	***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	< 4.8 Avg Mo	< 5.3 20.0 Daily Max	mg/L	2/month	Grab
	Permit Requirement	***	***	***	***	15.0 Avg Mo	20.0 Daily Max	mg/L	2/month	Grab
Flow (50050)	Sample Measurement	.001	.001	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***	***	1/week	Estimate
Facility Sampling Point Comments										



COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 168 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Internal Monitoring Point

PA0025615		403	
PERMIT NUMBER		OUTFALL NUMBER	

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2022	04	01	TO	2022	04	30

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☒

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	***	***	***	S.U.	Weekly when Discharging	Grab
	Permit Requirement	***	***	***	6.0 Inst Min	***	9.0 IMAX	***		
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	***	***	mg/L	Weekly when Discharging	Grab
	Permit Requirement	***	***	***	***	30.0 Avg Mo	100.0 Daily Max	***		
Oil and Grease (00556)	Sample Measurement	***	***	***	***	***	***	mg/L	Weekly when Discharging	Grab
	Permit Requirement	***	***	***	***	15.0 Avg Mo	20.0 Daily Max	***		
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	***	***	mg/L	Weekly when Discharging	Grab
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max	***		
Chromium, Total (01034)	Sample Measurement	***	***	***	***	***	***	mg/L	Weekly when Discharging	Grab
	Permit Requirement	***	***	***	***	2 Avg Mo	2 Daily Max	***		
Zinc, Total (01092)	Sample Measurement	***	***	***	***	***	***	mg/L	Weekly when Discharging	Grab
	Permit Requirement	***	***	***	***	1.0 Avg Mo	1.0 Daily Max	***		
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***	Weekly when Discharging	Estimate
	Permit Requirement	***	***	***	***	***	***	***		
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	***	***	mg/L	Weekly when Discharging	Grab
	Permit Requirement	***	***	***	***	5 Avg Mo	1.25 IMAX	***		
Nalco H150M (51698)	Sample Measurement	***	***	***	***	***	***	mg/L	Weekly when Discharging	Grab
	Permit Requirement	***	***	***	***	.034 Avg Mo	.034 Daily Max	***		
Hydrazine (81313)	Sample Measurement	***	***	***	***	***	***	mg/L	Weekly when Discharging	Grab
	Permit Requirement	***	***	***	***	.007 Avg Mo	.007 Daily Max	***		
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: ENERGY HARBOR NUCLEAR CORP
 ADDRESS: 166 E MARKET ST, AKRON OH, 44308-2014
 FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1
 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077
 STAGE: Internal Monitoring Point

PA0025615		601	
PERMIT NUMBER		OUTFALL NUMBER	

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2022	04	01	FROM	2022	04	30	TO

Reporting Frequency: Monthly
 DMR Effective From: 04/01/2022
 DMR Effective To: 04/30/2022
 Permit Expires: 10/31/2026
 Permit Application Due: 05/04/2026
 No Discharge: ☒

PARAMETERS REPORTED VALUES

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		1/week	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	30.0 Avg Mo	100.0 Daily Max		1/week	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	15.0 Avg Mo	20.0 Daily Max		1/week	Grab
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	Grab
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***		
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Estimate
Hydrazine (81313)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	Grab
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

NAME: **ENERGY HARBOR NUCLEAR CORP**
 ADDRESS: **168 E MARKET ST, AKRON OH, 44308-2014**
 FACILITY: **FIRSTENERGY BEAVER VALLEY POWER STATION 1**
 LOCATION: **PA ROUTE 168, SHIPPINGPORT PA, 15077**
 STAGE: **Internal Monitoring Point**

PA0025615	701
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2022	04	01	TO	2022	04	30

Reporting Frequency: **Monthly**
 DMR Effective From: **04/01/2022**
 DMR Effective To: **04/30/2022**
 Permit Expires: **10/31/2026**
 Permit Application Due: **05/04/2026**
 No Discharge: ☒

PARAMETERS REPORTED VALUES

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	Sample Measurement	***	***	***	***	***	***	S.U.	1/week	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX			
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	***	***	mg/L	1/week	Grab
	Permit Requirement	***	***		***	30.0 Avg Mo	100.0 Daily Max			
Oil and Grease (00556)	Sample Measurement	***	***	***	***	***	***	mg/L	1/week	Grab
	Permit Requirement	***	***		***	15.0 Avg Mo	20.0 Daily Max			
Ammonia-Nitrogen (00610)	Sample Measurement	***	***	***	***	***	***	mg/L	1/week	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max			
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***			
Hydrazine (B1313)	Sample Measurement	***	***	***	***	***	***	mg/L	1/week	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max			
Facility Sampling Point Comments										



**COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF ENVIRONMENTAL PROTECTION
BUREAU OF CLEAN WATER
DISCHARGE MONITORING REPORT (DMR)**

ATTACHMENT DETAILS

File Name	Attachment Type	Uploaded Time	Attachment Comments
Signed Cover Letter April 2022.pdf	Cover Letter	2022-05-26T12:29:32-04:00	
Enclosure C Daily Effluent Monitoring Forms.pdf	Daily Effluent Monitoring Form	2022-05-26T12:42:26-04:00	
Signed Enclosure E Lab Accred Forms April 2022.pdf	Laboratory Accreditation Form	2022-05-26T12:46:02-04:00	
Enclosure B Chemical Additives Forms.pdf	Chemical Additives Usage Form	2022-05-26T12:35:16-04:00	
Enclosure D Cooling Water Intake Monitoring Forms.pdf	Other	2022-05-26T12:45:07-04:00	Cooling water Intake Monitoring Forms PADEP form number 3800-FM-BCW0010

PERMIT VIOLATIONS

Non-Compliance ID	Event Start Date	Event End Date	Parameter	Limit Type	Reported Value	Permit Limit	Unit	Sampling Point	Cause Of Non-Compliance	Corrective Action	Comments
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UNAUTHORIZED DISCHARGES

Non-Compliance ID	Event Start Date	Event End Date	Date and Time Discovered	Substance Discharged	Event Location	Volume (gal)	Duration (hrs)	Receiving Waters	Impact On Waters	Cause Of Discharge	Date and Time DEP Notified Orally	Comments
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OTHER PERMIT VIOLATIONS

Non-Compliance ID	Non-Compliance Type	Sampling Point	Parameter	Reported Value	Permit Limit	Comments
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COMMENT DETAILS

Comments	Operator Name	Operator Certification Number	Operator Contact Number
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SUBMISSION INFORMATION

SUBMITTED BY GREENPORT USER	en05m]	*Pursuant to the Pennsylvania Electronic Transactions Act - Act 69, effective January 15, 2002, you are about to engage in an electronic transaction with the Commonwealth of Pennsylvania. You are submitting official information. You certify under penalty of law that this document and all attachments were prepared under your direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on your inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of your knowledge and belief, true, accurate and complete. You are aware that any false statement may be subject to substantial civil and criminal penalties, including 18 P.S. section 4904 (relating to unsworn falsification to authorities).	Matthew Enes	TELEPHONE		DATE		
				(724)	682-7773	2022	05	26
			SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY

L-22-132

ENCLOSURE B



SUPPLEMENTAL REPORT - CHEMICAL ADDITIVES USAGE

Facility Name: **Beaver Valley Power Station - Unit 1**
Municipality: **Shippingport Borough** County: **Beaver**
Watershed: **Ohio River**

Month: **April** Year: **2022**
NPDES Permit No.: **PA0025615** Outfall: **001**
Renewal application due **180 days** prior to expiration.
This permit will expire on: **October 31, 2026**

Day	Chemical Names															
	Bleach		Liquichlor		Control Brom 70		Surfactant Nalco 73550		Dispersant Nalco 3DT-120		Acti Brom Nalco 1318		Biocide Nalco H-150M		Dechlorination Nalco 7408	
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1	211.0				17.0		0.0		22.0		0.0		0.0		23.0	
2	224.0				17.0		0.0		22.0		0.0		0.0		52.0	
3	214.0				17.0		0.0		22.0		0.0		0.0		25.0	
4	10.0				17.0		27.0		22.0		0.0		0.0		20.0	
5	214.0				17.0		0.0		22.0		0.0		0.0		15.0	
6	171.0				13.0		0.0		22.0		0.0		0.0		15.0	
7	134.0				11.0		0.0		28.0		0.0		0.0		13.0	
8	224.0				17.0		27.0		28.0		0.0		0.0		21.0	
9	214.0				17.0		0.0		28.0		0.0		0.0		23.0	
10	224.0				17.0		0.0		28.0		0.0		0.0		23.0	
11	214.0				17.0		0.0		28.0		0.0		0.0		20.0	
12	224.0				17.0		0.0		28.0		0.0		0.0		22.0	
13	214.0				17.0		27.0		28.0		0.0		0.0		21.0	
14	217.0				17.0		0.0		28.0		0.0		0.0		21.0	
15	214.0				17.0		0.0		28.0		0.0		0.0		21.0	
16	224.0				17.0		0.0		28.0		0.0		0.0		25.0	
17	214.0				17.0		0.0		28.0		0.0		0.0		23.0	
18	224.0				17.0		0.0		28.0		0.0		0.0		20.0	
19	236.0				19.0		0.0		28.0		0.0		0.0		20.0	
20	257.0				20.0		27.0		28.0		0.0		0.0		20.0	
21	270.0				22.0		0.0		28.0		0.0		0.0		20.0	
22	271.0				21.0		27.0		28.0		0.0		0.0		20.0	
23	261.0				21.0		0.0		28.0		0.0		0.0		28.0	
24	272.0				21.0		0.0		28.0		0.0		0.0		23.0	
25	261.0				21.0		27.0		28.0		0.0		0.0		28.0	
26	271.0				21.0		0.0		28.0		0.0		0.0		34.0	
27	217.0				17.0		0.0		28.0		0.0		0.0		20.0	
28	0.0				0.0		0.0		28.0		0.0		0.0		15.0	
29	174.0				17.0		27.0		28.0		0.0		0.0		18.0	
30	271.0				21.0		0.0		28.0		0.0		0.0		21.0	
31																
Average	211.5				17.2		6.3		26.8						22.3	
Maximum	272.0				22.0		27.0		28.0						52.0	

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: **James Harvey**
Title: **Senior Nuclear Specialist**

License No.:
Date: **5/2/2022**

SUPPLEMENTAL REPORT - CHEMICAL ADDITIVES USAGE

3800-FM-BCW0439 3/2014

Facility Name: Beaver Valley Power Station - Unit 2
Municipality: Shippingport Borough County: Beaver
Watershed: Ohio River

Month: April Year: 2022
NPDES Permit No.: PA0025615 Outfall: 001
Renewal application due 180 days prior to expiration.
This permit will expire on: October 31, 2026

Day	Chemical Names													
	Bleach Liquichlor		Control Brom CB-70		Surfactant Nalco 73550		Dispersant Nalco 3DT-120		Biocide Nalco H150-M		Dechlorination Nalco 7408			
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1	188.0		20.0		27.0		22.0		0.0		0.0			
2	259.0		28.0		27.0		22.0		0.0		0.0			
3	259.0		28.0		27.0		22.0		0.0		0.0			
4	259.0		28.0		27.0		22.0		0.0		0.0			
5	259.0		21.0		27.0		22.0		0.0		0.0			
6	194.0		0.0		27.0		22.0		0.0		0.0			
7	0.0		0.0		27.0		39.0		0.0		0.0			
8	259.0		28.0		27.0		39.0		0.0		0.0			
9	259.0		28.0		0.0		39.0		0.0		0.0			
10	259.0		28.0		0.0		0.0		0.0		0.0			
11	259.0		28.0		0.0		39.0		0.0		0.0			
12	259.0		28.0		27.0		39.0		0.0		0.0			
13	259.0		28.0		27.0		39.0		0.0		0.0			
14	259.0		28.0		27.0		39.0		0.0		0.0			
15	259.0		28.0		0.0		39.0		0.0		0.0			
16	259.0		28.0		27.0		39.0		0.0		0.0			
17	259.0		28.0		0.0		39.0		0.0		0.0			
18	259.0		28.0		27.0		39.0		0.0		0.0			
19	259.0		28.0		27.0		39.0		0.0		0.0			
20	259.0		28.0		27.0		39.0		0.0		0.0			
21	270.0		29.0		27.0		39.0		0.0		0.0			
22	263.0		28.0		27.0		39.0		0.0		0.0			
23	259.0		28.0		27.0		39.0		0.0		0.0			
24	259.0		28.0		27.0		39.0		0.0		0.0			
25	252.0		27.0		27.0		39.0		0.0		0.0			
26	259.0		28.0		27.0		39.0		0.0		0.0			
27	259.0		28.0		27.0		39.0		0.0		0.0			
28	259.0		28.0		27.0		39.0		0.0		0.0			
29	259.0		28.0		27.0		39.0		0.0		0.0			
30	259.0		28.0		27.0		39.0		0.0		0.0			
31														
Average	246.1		25.6		22.5		34.3							
Maximum	270.0		29.0		27.0		39.0							

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: 5/2/2022

SUPPLEMENTAL REPORT - CHEMICAL ADDITIVES USAGE

3800-FM-BCW0439 3/2014

Facility Name: Beaver Valley power Station
Municipality: Shippingport Borough County: Beaver
Watershed: Ohio River

Month: April Year: 2022
NPDES Permit No.: PA0025615 Outfall: 003
Renewal application due 180 days prior to expiration.
This permit will expire on: October 31, 2026

Day	Chemical Names															
	RO Antiscalant Hypersperse															
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1	0.45															
2	0.09															
3	0.0															
4	0.45															
5	0.52															
6	0.06															
7	0.45															
8	0.26															
9	0.0															
10	0.39															
11	0.58															
12	0.0															
13	0.32															
14	0.06															
15	0.39															
16	0.052															
17	0.0															
18	0.49															
19	0.29															
20	0.0															
21	0.0															
22	0.45															
23	0.78															
24	0.0															
25	0.39															
26	0.22															
27	0.45															
28	0.06															
29	0.45															
30	0.13															
31																
Average	0.3															
Maximum	0.8															

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: 5/3/2022

SUPPLEMENTAL REPORT - CHEMICAL ADDITIVES USAGE

3800-FM-BCW0439 3/2014

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: Ohio River

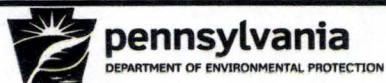
Month: April Year: 2022
NPDES Permit No.: PA0025615 Outfall: 010
Renewal application due 180 days prior to expiration.
This permit will expire on: October 31, 2026

Day	Chemical Names													
	Sodium Hypochlorite		Control-Brom 70		Biocide Nalco H-150M		Dechlorination NALCO 7408		Corrosion Inhib. NALCO CL-50					
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1	11.0		0.0		0.0		2.4		0.0					
2	0.0		0.0		0.0		2.4		0.0					
3	7.0		0.0		0.0		3.0		0.0					
4	0.0		0.0		0.0		2.4		0.0					
5	10.0		0.0		0.0		2.4		0.0					
6	0.0		0.0		0.0		2.4		0.0					
7	10.0		0.0		0.0		2.6		0.0					
8	0.0		0.0		0.0		2.4		0.0					
9	10.0		0.0		0.0		2.4		0.0					
10	0.0		0.0		0.0		2.4		0.0					
11	9.0		0.0		0.0		2.4		0.0					
12	0.0		0.0		0.0		3.9		0.0					
13	10.0		0.0		0.0		3.9		0.0					
14	0.0		0.0		0.0		3.9		0.0					
15	10.0		0.0		0.0		3.8		0.0					
16	0.0		0.0		0.0		3.9		0.0					
17	10.0		0.0		0.0		3.9		0.0					
18	0.0		0.0		0.0		3.9		0.0					
19	10.0		0.0		0.0		3.9		0.0					
20	0.0		0.0		0.0		3.9		0.0					
21	10.0		0.0		0.0		3.9		0.0					
22	0.0		0.0		0.0		3.9		0.0					
23	10.0		0.0		0.0		3.9		0.0					
24	0.0		0.0		0.0		3.9		0.0					
25	10.0		0.0		0.0		3.9		0.0					
26	0.0		0.0		0.0		3.9		0.0					
27	10.0		0.0		0.0		3.9		0.0					
28	10.0		0.0		0.0		3.9		0.0					
29	0.0		0.0		0.0		3.9		0.0					
30	0.0		0.0		0.0		3.9		0.0					
31														
Average	4.9						3.4							
Maximum	11.0						3.9							

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: 5/2/2022



SUPPLEMENTAL REPORT - CHEMICAL ADDITIVES USAGE

3800-FM-BCW0439 3/2014

Facility Name: Beaver Valley Power Station - Unit 1 Secondary
Municipality: Shippingport Borough County: Beaver
Watershed: Ohio River

Month: April Year: 2022
NPDES Permit No.: PA0025615 Outfall: No Outfall
Renewal application due 180 days prior to expiration.
This permit will expire on: October 31, 2026

These feedwater additives are not typically discharged. They are reported to align with DEP guidance.

Day	Chemical Names															
	Hydrazine		Monoethanolamine PT7000													
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1	4.5		0.0													
2	4.5		0.0													
3	4.5		0.0													
4	4.5		0.0													
5	0.0		0.0													
6	4.5		0.0													
7	5.0		1.0													
8	5.0		0.0													
9	5.0		0.0													
10	5.0		0.0													
11	5.0		0.0													
12	4.5		0.5													
13	4.5		0.5													
14	4.5		0.5													
15	4.0		0.0													
16	4.0		0.0													
17	4.0		0.0													
18	4.0		0.0													
19	4.0		0.5													
20	4.5		0.0													
21	4.0		0.0													
22	4.5		0.0													
23	4.5		0.0													
24	4.5		0.0													
25	4.5		0.0													
26	4.5		0.0													
27	4.5		1.0													
28	4.0		0.0													
29	4.5		1.0													
30	4.5		0.0													
31																
Average	4.3		0.2													
Maximum	5.0		1.0													

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jim Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: 5/10/2022

SUPPLEMENTAL REPORT - CHEMICAL ADDITIVES USAGE

3800-FM-BCW0439 3/2014

Facility Name: Beaver Valley Power Station - Unit 2 Secondary
Municipality: Shippingport Borough County: Beaver
Watershed: Ohio River

Month: April Year: 2022
NPDES Permit No.: PA0025615 Outfall: No Outfall
Renewal application due 180 days prior to expiration.
This permit will expire on: October 31, 2026

These feedwater additives are not typically discharged. They are reported to align with DEP guidance.

Day	Chemical Names															
	Hydrazine		Monoethanolamine PT7000													
	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs	gallons	lbs
1	6.5		0.0													
2	6.5		0.0													
3	6.5		0.0													
4	6.5		0.0													
5	0.0		0.0													
6	6.5		0.0													
7	8.0		1.0													
8	6.0		0.0													
9	6.5		0.0													
10	0.0		0.0													
11	6.5		0.0													
12	7.0		0.5													
13	7.0		0.0													
14	7.0		0.5													
15	6.5		0.0													
16	6.5		0.0													
17	6.5		0.0													
18	6.5		0.0													
19	6.5		0.5													
20	6.5		0.0													
21	6.5		0.0													
22	6.5		0.5													
23	6.5		0.5													
24	6.5		0.0													
25	6.5		0.0													
26	6.5		0.0													
27	6.5		0.5													
28	6.5		0.0													
29	6.5		1.0													
30	6.5		0.0													
31																
Average	6.2		0.2													
Maximum	8.0		1.0													

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: Jim Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: 5/10/2022

L-22-132

ENCLOSURE C



3800-EM-BCW0435 3/2012

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 001
 Renewal application due **180 days** prior to expiration.
 This permit will expire on: **October 31, 2026**

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

License No.: _____
Date: **5/11/2022**

**SUPPLEMENTAL REPORT
DAILY EFFLUENT MONITORING**

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
Permit No.: _____ Outfall: 002
Renewal application due 180 days prior to expiration.
This permit will expire on: October 31, 2026

Parameter			Flow																		
Week	Day	Date	MGD	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
1	Fri	4/1/22																			
	Sat	4/2/22																			
	Sun	4/3/22																			
	Mon	4/4/22	0.046																		
	Tue	4/5/22																			
	Wed	4/6/22																			
	Thu	4/7/22																			
	Fri	4/8/22																			
2	Sat	4/9/22																			
	Sun	4/10/22																			
	Mon	4/11/22	0.046																		
	Tue	4/12/22																			
	Wed	4/13/22																			
	Thu	4/14/22																			
	Fri	4/15/22																			
	Sat	4/16/22																			
3	Sun	4/17/22																			
	Mon	4/18/22	0.046																		
	Tue	4/19/22																			
	Wed	4/20/22																			
	Thu	4/21/22																			
	Fri	4/22/22																			
	Sat	4/23/22																			
	Sun	4/24/22																			
4	Mon	4/25/22	0.046																		
	Tue	4/26/22																			
	Wed	4/27/22																			
	Thu	4/28/22																			
	Fri	4/29/22																			
	Sat	4/30/22																			
5																					

Statistics for QMR																					
Daily Minimum (Conc.):																					
Daily Maximum (Conc.):																					
Max Avg Weekly (Conc.):																					
Avg Monthly (Conc.):																					
Geometric Mean (Conc.):																					
Max Avg Weekly (Load):	0.046																				
Avg Monthly (Load):	0.046																				
Total Monthly (Load):	0.184																				
Daily Minimum (Load):	0.046																				
Daily Maximum (Load):	0.046																				

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: 5/2/2022

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 003
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unlawful falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: **5/11/2022**

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 004
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: 5/2/2022

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 006
 Renewal application due **180 days** prior to expiration.
 This permit will expire on: **October 31, 2026**

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unlawful falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: **5/3/2022**



3800-EM-RCW0435 3/2012

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 007
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: **5/3/2022**



3800-FM-BCW0435 3/2012

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 010
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 P.S. C.S. § 4904 (relating to unsworn falsification).

License No.: _____
Date: **5/3/2022**

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 011
 Renewal application due **180 days** prior to expiration.
 This permit will expire on: **October 31, 2026**

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unlawful falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: **5/12/2022**

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 012
 Renewal application due **180 days** prior to expiration.
 This permit will expire on: **October 31, 2026**

Parameter			Flow	pH	Total Cadmium		Total Copper		Total Zinc														
Stage			1	1	1		1		1														
Week	Day	Date	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q		Q		Q		Q		Q		Q	
1	Fri	4/1/22	0.001		7.7																		
	Sat	4/2/22																					
	Sun	4/3/22																					
	Mon	4/4/22																					
	Tue	4/5/22	0.001		7.7	<	0.001		0.01		0.0077												
	Wed	4/6/22																					
	Thu	4/7/22																					
	Fri	4/8/22																					
	Sat	4/9/22																					
	Sun	4/10/22																					
2	Mon	4/11/22	0.001		7.9	<	0.001		0.015		0.0092												
	Tue	4/12/22																					
	Wed	4/13/22																					
	Thu	4/14/22																					
	Fri	4/15/22																					
	Sat	4/16/22																					
	Sun	4/17/22																					
	Mon	4/18/22																					
	Tue	4/19/22																					
	Wed	4/20/22																					
	Thu	4/21/22																					
	Fri	4/22/22																					
	Sat	4/23/22																					
	Sun	4/24/22																					
	Mon	4/25/22																					
	Tue	4/26/22																					
	Wed	4/27/22																					
	Thu	4/28/22																					
	Fri	4/29/22																					
	Sat	4/30/22																					
5																							
Statistics for DWR:																							
Daily Minimum (Conc.):					7.7	<	0.001		0.01		0.0077												
Daily Maximum (Conc.):					7.9	<	0.001		0.015		0.0092												
Max Avg Weekly (Conc.):						<	0.001		0.015		0.0092												
Avg Monthly (Conc.):						<	0.001		0.013		0.0085												
Geometric Mean (Conc.):																							
Max Avg Weekly (Load):			0.001			<	0.000008		0.0001		0.00008												
Avg Monthly (Load):			0.001			<	0.000008		0.0001		0.00007												
Total Monthly (Load):			0.003			<	0.0003		0.003		0.002												
Daily Minimum (Load):			0.001			<	0.000008		0.00008		0.00006												
Daily Maximum (Load):			0.001			<	0.000008		0.0001		0.00008												

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 P.S. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: **5/3/2022**

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 013
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unwarranted fabrication).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: **5/11/2022**

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 101
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

Parameter			Flow	pH	TSS		Oil and Grease		NH3-N		Hydrazine											
Week	Day	Stage	1	RI	RI	RI	RI	RI	RI	RI	RI	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q	Q
		Date	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q
1	Fri	4/1/22																				
	Sat	4/2/22																				
	Sun	4/3/22																				
	Mon	4/4/22	0.006		6.8	<	4.0	<	5.2													
	Tue	4/5/22																				
	Wed	4/6/22																				
	Thu	4/7/22																				
2	Fri	4/8/22																				
	Sat	4/9/22																				
	Sun	4/10/22																				
	Mon	4/11/22	0.008		7.7	<	4.0	<	4.1													
	Tue	4/12/22																				
	Wed	4/13/22																				
	Thu	4/14/22																				
3	Fri	4/15/22																				
	Sat	4/16/22																				
	Sun	4/17/22																				
	Mon	4/18/22																				
	Tue	4/19/22	0.007		8.0		4.0	<	4.2													
	Wed	4/20/22																				
	Thu	4/21/22																				
4	Fri	4/22/22																				
	Sat	4/23/22																				
	Sun	4/24/22																				
	Mon	4/25/22	0.007		7.8	<	4.0	<	4.1													
	Tue	4/26/22																				
	Wed	4/27/22																				
	Thu	4/28/22																				
5	Fri	4/29/22																				
	Sat	4/30/22																				
Statistics for DMR																						
Daily Minimum (Conc.):					6.8	<	4	<	4.1													
Daily Maximum (Conc.):					8		4	<	5.2													
Max Avg Weekly (Conc.):							4.0	<	5.2													
Avg Monthly (Conc.):						<	4	<	4.4													
Geometric Mean (Conc.):																						
Max Avg Weekly (Load):			0.008			<	0.3	<	0.3													
Avg Monthly (Load):			0.007			<	0.2	<	0.3													
Total Monthly (Load):			0.028			<	7	<	8													
Daily Minimum (Load):			0.006			<	0.2	<	0.2													
Daily Maximum (Load):			0.008			<	0.3	<	0.3													

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: **5/12/2022**

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
Permit No.: _____ Outfall: 102
Renewal application due 180 days prior to expiration.
This permit will expire on: October 31, 2026

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unlawful falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: **5/13/2022**

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 103
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 P.S. C.S. § 4904 (relating to unlawful falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: **5/12/2022**



3800-FM-BCW0435 3/2012

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 108
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 P.S. C.S. § 4904 (relating to unsworn falsification).

License No.: _____
Date: **5/11/2022**



3800-EM-RCW0435 3/2012

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 111
 Renewal application due **180 days** prior to expiration.
 This permit will expire on: **October 31, 2026**

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 P.S. C.S. § 904a (relating to unlawful falsification).

License No.: _____
Date: **5/12/2022**

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 211
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

Parameter			Flow	pH	TSS		Oil and Grease													
Week	Day	Stage	1	RI	RI	RI	RI													
		Date	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q		Q		Q		Q		Q		Q
1	Fri	4/1/22																		
	Sat	4/2/22																		
	Sun	4/3/22																		
	Mon	4/4/22	0.002		6.4	<	4.0	<	5.0											
	Tue	4/5/22																		
	Wed	4/6/22																		
	Thu	4/7/22																		
2	Fri	4/8/22																		
	Sat	4/9/22																		
	Sun	4/10/22																		
	Mon	4/11/22	0.002		7.7		4.0	<	4.2											
	Tue	4/12/22																		
	Wed	4/13/22																		
	Thu	4/14/22																		
3	Fri	4/15/22																		
	Sat	4/16/22																		
	Sun	4/17/22																		
	Mon	4/18/22																		
	Tue	4/19/22	0.002		6.9	<	4.0	<	4.1											
	Wed	4/20/22																		
	Thu	4/21/22																		
4	Fri	4/22/22																		
	Sat	4/23/22																		
	Sun	4/24/22																		
	Mon	4/25/22	0.002		6.5		4.8	<	4.1											
	Tue	4/26/22																		
	Wed	4/27/22																		
	Thu	4/28/22																		
5	Fri	4/29/22																		
	Sat	4/30/22																		
Statistics for DWB																				
Daily Minimum (Conc.):					6.4	<	4	<	4.1											
Daily Maximum (Conc.):					7.7		4.8	<	5											
Max Avg Weekly (Conc.):							4.8	<	5.0											
Avg Monthly (Conc.):						<	4.2	<	4.4											
Geometric Mean (Conc.):																				
Max Avg Weekly (Load):			0.002				0.08	<	0.08											
Avg Monthly (Load):			0.002			<	0.07	<	0.07											
Total Monthly (Load):			0.008			<	2	<	2											
Daily Minimum (Load):			0.002			<	0.07	<	0.07											
Daily Maximum (Load):			0.002				0.08	<	0.08											

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 P.S. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: 5/12/2022

License No.: _____
Date: 5/3/2022



3800-FM-BCW0435 3/2012

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 303
 Renewal application due **180 days** prior to expiration.
 This permit will expire on: **October 31, 2026**

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 P.S. C.S. § 4904 (relating to unlawful falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: **5/11/2022**



3800-FM-RCW0435 3/2012

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 401
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 P.S. C.S. § 4904 (relating to unsworn falsification).

License No.: _____
Date: **5/3/2022**

Facility Name: Beaver Valley Power Station
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B
Laboratories: TestAmerica, BVPS Lab

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 313
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: **5/12/2022**



3800-FM-BCW0435 3/2012

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 403
 Renewal application due **180 days** prior to expiration.
 This permit will expire on: **October 31, 2026**

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

License No.: _____
Date: 5/3/2022



3800-EM-BGWD435 3/2012

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 601
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unlawful falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: 5/2/2022



3800-FM-BCW0435 3/2012

Month: 4 (select number) Year: 2022
 Permit No.: _____ Outfall: 701
 Renewal application due 180 days prior to expiration.
 This permit will expire on: October 31, 2026

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unlawful falsification).

License No.: _____
Date: **5/2/2022**

L-22-132

ENCLOSURE D



SUPPLEMENTAL REPORT - COOLING WATER INTAKE MONITORING

Facility Name: Beaver Valley Power Station - Unit 1
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B 20-D

Month: April Year: 2022
NPDES Permit No.: PA0025615
Renewal application due 180 days prior to expiration.
This permit will expire on: October 31, 2026

	Actual Intake Flow	Cooling Water Withdrawal	Make-Up Water	Blowdown Volume	Cycles of Concentration	Actual Through Screen Velocity		
Day	MGD	MGD	Million Gallons	Million Gallons	#	fps		
1					2.26			
2					1.48			
3					1.48			
4					1.4			
5					2.05			
6					1.36			
7					1.5			
8					2.13			
9					2.34			
10					2.07			
11					1.96			
12					2.07			
13					2.49			
14					2.02			
15					2.13			
16					2.07			
17					2.18			
18					1.37			
19					1.05			
20					2.01			
21					1.21			
22					1.26			
23					1.4			
24					1.29			
25					2.32			
26					2.85			
27					2.1			
28					1.89			
29					1.92			
30					2.42			
31								
Average					1.9			
Maximum					2.9			

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: 5/2/2022



SUPPLEMENTAL REPORT - COOLING WATER INTAKE MONITORING

3800-FM-BCW0010 2/2020

Facility Name: Beaver Valley Power Station - Unit 2
Municipality: Shippingport Borough County: Beaver
Watershed: 20-B 20-D

Month: April Year: 2022
NPDES Permit No.: PA0025615
Renewal application due 180 days prior to expiration.
This permit will expire on: October 31, 2026

	Actual Intake Flow	Cooling Water Withdrawal	Make-Up Water	Blowdown Volume	Cycles of Concentration	Actual Through Screen Velocity		
Day	MGD	MGD	Million Gallons	Million Gallons	#	fps		
1					1.88			
2					1.19			
3					1.17			
4					1.19			
5					1.82			
6					1.26			
7					1.33			
8					1.83			
9					2.09			
10					1.99			
11					2.08			
12					2.0			
13					2.59			
14					2.29			
15					2.2			
16					2.1			
17					2.32			
18					1.47			
19					1.0			
20					2.11			
21					1.15			
22					1.28			
23					1.4			
24					1.46			
25					2.32			
26					2.67			
27					2.03			
28					1.83			
29					1.93			
30					2.3			
31								
Average					1.8			
Maximum					2.7			

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. See 18 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey
Title: Senior Nuclear Specialist

License No.: _____
Date: 5/2/2022

L-22-132

ENCLOSURE E



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>Energy Harbor Nuclear</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				2022	04	01	TO 2022 04 30
PARAMETER	ANALYSIS METHOD	LAB NAME	LAB ID NUMBER²				
Total Residual Chlorine	SM 4500-CL G [20 ^m]	Beaver Valley Power Station	04-2742				
Free Available Chlorine	SM 4500-CL G [20 ^m]	Beaver Valley Power Station	04-2742				
pH	SM 4500-H+ B [20 ^m]	Beaver Valley Power Station	04-2742				
Temperature	SM 2550 B [20 ^m]	Beaver Valley Power Station	04-2742				
Flow	NA	Beaver Valley Power Station	04-2742				
Total Suspended Solids (TSS)	SM 2540 D [20 ^m]	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				

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

Name/Title Principal Executive Officer

Matthew J. Enos
General Plant Manager

Phone: 724-682-7773

Date:

5/26/2022

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

[Signature]

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.



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>Energy Harbor 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				2022	04	01	TO 2022 04 30
PARAMETER	ANALYSIS METHOD	LAB NAME	LAB ID NUMBER²				
Zinc	EPA 200.8 Rev 5.4	Eurofins - Pittsburgh Lab	02-00416				
Copper	EPA 200.8 Rev 5.4	Eurofins - Pittsburgh Lab	02-00416				
Iron	EPA 200.8 Rev 5.4	Eurofins - Pittsburgh Lab	02-00416				
Chromium	EPA 200.8 Rev 5.4	Eurofins - Pittsburgh Lab	02-00416				
Aluminum	EPA 200.8 Rev 5.4	Eurofins - Pittsburgh Lab	02-00416				
Cadmium	EPA 200.8 Rev 5.4	Eurofins - Pittsburgh Lab	02-00416				
Ammonia	EPA 350.1	Eurofins - Pittsburgh Lab	02-00416				
Oil and Grease	EPA 1664 Rev A	Eurofins - Canton Lab	68-00340				
Oil and Grease	EPA 1664 Rev B	Eurofins - Pittsburgh Lab	02-00416				
Mercury	EPA 245.1	Eurofins - Pittsburgh Lab	02-00416				
Phenolics	EPA 420.1	Eurofins - Pittsburgh Lab	02-00416				
Oil and Grease	EPA 1664 Rev B	Eurofins - Pensacola Lab	68-00467				

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, 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**

Matthew J. Enos
General Plant Manager

Date: 5/24/2022

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.