



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

March 21, 2022  
L-22-093

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 February 2022 NPDES Discharge Monitoring Report (DMR), Chemical Additives Usage Report, Daily Effluent Monitoring Report and Cooling Water Intake Monitoring Report in accordance with the requirement set forth in the site NPDES permit.

A review of the data indicates no permit parameters were exceeded during the month. A Non-Compliance Reporting Form is included to report failure to meet required daily sampling frequency on 2/4/2022 for Outfall 001 for FAC & temperature and Outfall 010 for temperature due to hazardous weather conditions.

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

A001  
IE25  
NRR

Beaver Valley Power Station, Unit Nos. 1 and 2  
L-22-093  
Page 2

Enclosure(s):

- A. Monthly Discharge Monitoring Report
- B. Non-Compliance Reporting Form
- C. Chemical Additives Usage Report
- D. Daily Effluent Monitoring Report
- E. Cooling Water Intake Monitoring Report

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

**FOR INTERNAL DISTRIBUTION USE ONLY**

**Internal Distribution of Letter L-22-093**

S. York  
M. Reffert (ERM – Cranberry)  
Environmental File  
Central File: ***Keyword- DMR***

**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: **02/01/2022**  
DMR Effective To: **02/28/2022**  
Permit Expires: **10/31/2026**  
Permit Application Due: **05/04/2026**  
No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2022	02	01	FROM	2022	02	28
			TO			

## 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	***	***	***	***	***	73.7	°F	1/day	I-S
	Permit Requirement	***	***		***	***	110	Daily Max	1/day	I-S
	Facility Parameter Comments	001 - FAC & Temperature data was not obtained for 2/4/2022 due to hazardous weather conditions.								
pH (00400)	Sample Measurement	***	***	***	7.7	***	8.0	S.U.	1/week	Grab
	Permit Requirement	***	***		6.0	***	9.0	Inst Min IMAX	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
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	1/week	24-Hr Composite
	Permit Requirement	***	***		***	2	2	Avg Mo Daily Max	1/week	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	.009	.012	mg/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Iron, Total (01045)	Sample Measurement	***	***	***	***	3.9	7.0	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	1/week	24-Hr Composite
	Permit Requirement	***	***		***	1.0	1.0	Avg Mo Daily Max	1/week	24-Hr Composite
Aluminum, Total (01105)	Sample Measurement	***	***	***	***	1.7	3.2	mg/L	2/month	Grab
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Flow (50050)	Sample Measurement	34.3	39.5	MGD	***	***	***	***	Continuous	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	< .1	.14	mg/L	1/week	Grab
	Permit Requirement	***	***		***	.5	1.25	Avg Mo IMAX	1/week	Grab
Nelco H150M (51698)	Sample Measurement	***	***	***	***	GG	GG	mg/L	1/week	24-Hr Composite
	Permit Requirement	***	***		***	.034	.034	Avg Mo Daily Max	1/week	24-Hr Composite
Free Available Chlorine (50064)	Sample Measurement	***	***	***	***	< .02	< .02	mg/L	Continuous	Recorded
	Permit Requirement	***	***		***	2	.5	Avg Mo Daily Max	Continuous	Recorded
	Facility Parameter Comments	001 - FAC & Temperature data was not obtained for 2/4/2022 due to hazardous weather conditions.								
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	1/week	Grab
	Permit Requirement	***	***		***	.007	.007	Avg Mo Daily Max	1/week	Grab
Facility Sampling Point Comments	001 - FAC & Temperature data was not obtained for 2/4/2022 due to hazardous weather conditions.									



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	002
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2022	02	01	FROM	2022	02	28	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	.048	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***	***	1/week	Estimate
Facility Sampling Point Comments										



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 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077  
 STAGE: Final Effluent

PA0025615  
 PERMIT NUMBER

003  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
FROM 2022	02	01	TO	2022	02	28

## 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	5.00	***	***	***	GG	GG	mg/L		
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	Grab
Aluminum, Total (01105)	Sample Measurement	***	***	***	***	.33	.45	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	.173	.174	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										





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 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	004
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2022	02	01		TO 2022	02	28	

## 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 Inst Min	***	9.0 IMAX		1/week	Grab
Chromium, Total (01034)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	.2 Avg Mo	.2 Daily Max		1/week	24-Hr Composite
Copper, Total (01042)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Zinc, Total (01092)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	1.0 Avg Mo	1.0 Daily Max		1/week	24-Hr Composite
Aluminum, Total (01105)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***		
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Calculation
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	.5 Avg Mo	1.25 IMAX		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										



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 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: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2022	02	01	TO	2022	02	28	

## 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	.018	MGD	***	***	***	***	1/week	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***	***	1/week	Estimate
Facility Sampling Point Comments										



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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

007  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2022	02	01	TO	2022	02	28	

## 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 Inst Min	***	9.0 I/MAx		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
Nalco 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										



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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

**010**  
 OUTFALL NUMBER

Reporting Frequency: **Monthly**  
 DMR Effective From: **02/01/2022**  
 DMR Effective To: **02/28/2022**  
 Permit Expires: **10/31/2026**  
 Permit Application Due: **05/04/2026**  
 No Discharge: ☐

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
2022	02	01	2022	02	28

FROM

TO

## 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	***	***	***	***	***	52.5	°F	1/day	I-S
	Permit Requirement	***	***		***	***	110 Daily Max		1/day	I-S
	Facility Parameter Comments	010 - Temperature data was not obtained on 2/4/2022 due to hazardous weather conditions.								
pH (00400)	Sample Measurement	***	***	***	7.2	***	7.8	S.U.	1/week	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/week	Grab
Flow (50050)	Sample Measurement	4.32	4.32	MGD	***	***	***	***	1/week	Measured
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	Sample Measurement	***	***	***	***	***	.10	mg/L	1/week	Grab
	Permit Requirement	***	***		***	***	.20 Daily Max		1/week	Grab
Nalco H150M (S1898)	Sample Measurement	***	***	***	***	GG	GG	mg/L		
	Permit Requirement	***	***		***	.034 Avg Mo	.034 Daily Max		1/week	24-Hr Composite
Free Available Chlorine (50054)	Sample Measurement	***	***	***	***	< .04	.05	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		010 - Temperature data was not obtained on 2/4/2022 due to hazardous weather conditions.								





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 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

011  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☐

MONITORING PERIOD									
YEAR	MO	DAY		YEAR	MO	DAY			
FROM 2022	02	01		TO 2022	02	28			

## 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	MGD	***	***	***	***	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										





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 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

**012**  
 OUTFALL NUMBER

Reporting Frequency: **Monthly**  
 DMR Effective From: **02/01/2022**  
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MONITORING PERIOD								
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## 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	***	7.4	S.U.	3/month	Grab
	Permit Requirement	***	***	***	6.0 Inst Min	***	9.0 IMAX	***	2/month	Grab
Cadmium, Total (01027)	Sample Measurement	***	***	***	***	< .001	< .001	mg/L	3/month	Grab
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	2/month	Grab
Copper, Total (01042)	Sample Measurement	***	***	***	***	.0038	.0039	mg/L	3/month	Grab
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	2/month	Grab
Zinc, Total (01092)	Sample Measurement	***	***	***	***	< .005	< .005	mg/L	3/month	Grab
	Permit Requirement	***	***	***	***	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	2/month	Grab
Flow (50050)	Sample Measurement	014	.014	MGD	***	***	***	***	3/month	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max	***	***	***	***	***	2/month	Estimate
Facility Sampling Point Comments										



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 LOCATION: PA ROUTE 168, SHIPPINGPORT PA, 15077  
 STAGE: Final Effluent

PA0025615  
 PERMIT NUMBER

013  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
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MONITORING PERIOD								
YEAR	MO	DAY		YEAR	MO	DAY		
FROM 2022	02	01	TO	2022	02	28		

## 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	***	8.1	S.U.	2/month	Grab
	Permit Requirement	***	***		8.0 Inst Min	***	9.0 IMAX		2/month	Grab
Copper, Total (01042)	Sample Measurement	***	***	***	***	.144	.27	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										



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

101  
OUTFALL NUMBER

Reporting Frequency: **Monthly**  
 DMR Effective From: **02/01/2022**  
 DMR Effective To: **02/28/2022**  
 Permit Expires: **10/31/2026**  
 Permit Application Due: **05/04/2026**  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2022	02	01	TO	2022	02	28	

## 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	***	***	***	6.6	***	8.8	S.U.	1/week	Grab
	Permit Requirement	***	***	***	8.0 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	***	***	***	***	< 4.7	< 4.7	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: 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

**102**  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☐

MONITORING PERIOD									
YEAR	MO	DAY		YEAR	MO	DAY			
FROM 2022	02	01	TO	2022	02	28			

**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	***	***	***	6.6	***	7.2	S.U.	2/month	Grab
	Permit Requirement	***	***		6.0 Inet Min	***	8.0 IMAX		2/month	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	17.5	26.9	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	< 4.7	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										





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

103  
OUTFALL NUMBER

Reporting Frequency: **Monthly**  
 DMR Effective From: **02/01/2022**  
 DMR Effective To: **02/28/2022**  
 Permit Expires: **10/31/2026**  
 Permit Application Due: **05/04/2026**  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2022	02	01	TO	2022	02	28	

## 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.	2/month	Grab
	Permit Requirement	***	***	***	6.0 Inst Min	***	9.0 IMAX	***	2/month	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	5.2	5.9	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	***	***	***	***	< 4.7	< 4.7	mg/L	2/month	Grab
	Permit Requirement	***	***	***	***	15.0 Avg Mo	20.0 Daily Max	***	2/month	Grab
Flow (50050)	Sample Measurement	.123	.164	MGD	***	***	***	***	6/week	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  
 PERMIT NUMBER

108  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☒

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
2022	02	01	FROM	2022	02	28
			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	***	***	MGD	***	***	***	***	Weekly when Discharging	Estimate
	Permit Requirement	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***			
Total Residual Chlorine (TRC) (50080)	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  
 PERMIT NUMBER

111  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2022	02	01	TO	2022	02	28	

## 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	***	7.3	S.U.	1/week	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		1/week	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	< 4.1	4.2	mg/L	1/week	Grab
	Permit Requirement	***	***		***	30.0 Avg Mo	100.0 Daily Max		1/week	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	< 4.7	< 4.7	mg/L	1/week	Grab
	Permit Requirement	***	***		***	15.0 Avg Mo	20.6 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

211  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2022	02	01	TO	2022	02	28	

**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	***	7.6	S.U.	1/week	Grab
	Permit Requirement	***	***	***	6.0 Inst Min	***	9.0 IMAX	***	1/week	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	7.8	10.5	mg/L	1/week	Grab
	Permit Requirement	***	***	***	***	30.0 Avg Mo	100.0 Daily Max	***	1/week	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	< 5.0	< 5.4	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**  
 PERMIT NUMBER

**301**  
 OUTFALL NUMBER

Reporting Frequency: **Monthly**  
 DMR Effective From: **02/01/2022**  
 DMR Effective To: **02/28/2022**  
 Permit Expires: **10/31/2026**  
 Permit Application Due: **05/04/2026**  
 No Discharge: ☒

MONITORING PERIOD

YEAR	MO	DAY		YEAR	MO	DAY
2022	02	01	FROM	2022	02	28
			TO			

**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		
	Permit Requirement	***	***		***	30.0 Avg Mo	100.0 Daily Max		2/month	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	***	***	mg/L		
	Permit Requirement	***	***		***	15.0 Avg Mo	20.0 Daily Max		2/month	Grab
Flow (50050)	Sample Measurement	***	***	MGD	***	***	***	***		
	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

303  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☐

MONITORING PERIOD									
YEAR	MO	DAY		YEAR	MO	DAY			
FROM 2022	02	01	TO	2022	02	28			

## 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	***	7.6	S.U.	2/month	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	9.0 IMAX		2/month	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	16.2	27.0	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	< 4.7	mg/L	2/month	Grab
	Permit Requirement	***	***		***	15.0 Avg Mo	20.0 Daily Max		2/month	Grab
Flow (50050)	Sample Measurement	.056	.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: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☐

MONITORING PERIOD

YEAR	MO	DAY	TO	YEAR	MO	DAY
FROM 2022	02	01	TO	2022	02	28

**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	***	7.4	S.U.	1/week	Grab
	Permit Requirement	***	***	***	6.0 Inst Min	***	9.0 IMAX	***	1/week	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	13.4	16.0	mg/L	1/week	Grab
	Permit Requirement	***	***	***	***	30.0 Avg Mo	100.0 Daily Max	***	1/week	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	< 4.7	< 4.8	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: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☐

MONITORING PERIOD

YEAR	MO	DAY	TO	YEAR	MO	DAY
2022	02	01		2022	02	28

## 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	***	***	***	8.0	***	***	S.U.	2/month	Grab
	Permit Requirement	***	***		6.0 Inst Min	***	***		2/month	Grab
Total Suspended Solids (00530)	Sample Measurement	***	***	***	***	< 4.0	< 4.0	mg/L	2/month	Grab
	Permit Requirement	***	***		***	30.0 Avg Mo	100.0 Daily Max		2/month	Grab
Oil and Grease (00556)	Sample Measurement	***	***	***	***	< 5.3	< 5.3	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	***	***	***	***	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

**403**  
 OUTFALL NUMBER

Reporting Frequency: **Monthly**  
 DMR Effective From: **02/01/2022**  
 DMR Effective To: **02/28/2022**  
 Permit Expires: **10/31/2026**  
 Permit Application Due: **05/04/2026**  
 No Discharge: ☒

MONITORING PERIOD

YEAR	MO	DAY	YEAR	MO	DAY
FROM 2022	02	01	TO 2022	02	28

**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	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***			
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: 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

**601**  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2022	02	01	TO	2022	02	28	

## 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	***	***		8.0 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 (81313)	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)

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

701  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 02/01/2022  
 DMR Effective To: 02/28/2022  
 Permit Expires: 10/31/2026  
 Permit Application Due: 05/04/2026  
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
FROM 2022	02	01	TO	2022	02	28	

## 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	***	***		6.9 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)**

**ATTACHMENT DETAILS**

File Name	Attachment Type	Uploaded Time	Attachment Comments
Chemical Additives Form BVPS Feb 22 DMR.pdf	Chemical Additive Usage Form	2022-03-25T06:52:02-04:00	
Daily Effluent Form BVPS Feb 22 DMR.pdf	Daily Effluent Monitoring Form	2022-03-25T06:52:28-04:00	
Cooling Water Monitoring Form BVPS Feb 22 DMR.pdf	Other	2022-03-25T06:53:18-04:00	Cooling Water Intake Monitoring Form
Cover Letter BVPS Feb 22 DMR.pdf	Cover Letter	2022-03-25T06:50:47-04:00	
Non-Compliance Form BVPS Feb 22 DMR.pdf	Letter Explaining Non-Compliance	2022-03-25T06:51:30-04:00	

**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	*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 Enos	TELEPHONE		DATE		
			(724)	682-7773	2022	03	25
enosmj		SUBMITTED BY FULL NAME	AREA CODE	NUMBER	YEAR	MO	DAY



**ENCLOSURE B**



## INSTRUCTIONS FOR COMPLETING NON-COMPLIANCE REPORTING FORM

Use this supplemental form to report all permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). If you are reporting other non-compliance events, and the deadline for a written report (e.g., 5 days) does not coincide with your submission of the DMR, this form should be submitted separately to the Department by the reporting deadline set forth in the permit.

**If you are unsure of whether an incident constitutes non-compliance that may endanger health or the environment, it is recommended that you notify the Department verbally as soon as possible after you become aware of the incident. Title 25, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of pollution incidents, remediation, and may require an additional report on the incident or plan of pollution prevention measures.**

### Instructions:

1. Enter the name of the facility, the municipality and county where it is located, the month and year when violations occurred, and the NPDES or WQM permit number for the facility.
2. If there were violations of permit effluent limitations during the month, check the box next to "Violations of Permit Effluent Limitations." (Note – if using the electronic version of this form, check the boxes first, and then select Tools – Unprotect Document to enter additional information). Enter the date of the violation (if a violation of a minimum or maximum limit, the date of sample collection, or if a violation of an average limit, the end of the monitoring period), the parameter name, the permit limit and units, the statistical code (e.g., "MIN", "MAX", "MO AVG", etc.), the measured result and units, the cause of the violation and the corrective action taken. **If there are more than two violations during the monitoring period and/or if the space provided is insufficient to explain the cause or corrective action, please attach additional pages.**
3. If there are Sanitary Sewer Overflow (SSO) discharges or other unauthorized discharges from the facility (e.g., spills, leaks, etc.) that enter or have the potential to enter waters of the Commonwealth, including groundwater, notify DEP by phone as soon as possible, and document the discharge on this form by checking the box next to "Sanitary Sewer Overflows and Other Unauthorized Discharges." Record the event (discharge) date, the substance discharged (e.g., sewage, on-site chemicals, etc.), the location where the discharge occurred (e.g., manhole number, pump station name, equipment description, etc.), the volume discharged (gallons), the approximate duration of the discharge (hours), the receiving waters (name of stream or groundwater), the impact on the receiving waters, if observed (e.g., solids deposition, foam, fish kill, etc.), the cause of the discharge, and the date on which the Department was verbally notified. **If there are more than two discharge events during the monitoring period and/or if the space provided is insufficient to explain the discharge, please attach additional pages.**
4. If there are other violations of the permit, check the box next to "Other Permit Violations," and check the appropriate box that describes the violation type. If not identified on the form, check the box next to "Other" and provide a written explanation. **If the space provided is insufficient to explain the violation, please attach additional pages.**
5. Type your name and title and sign and date the form after reading the certification statement.

If you have questions about completing this form, contact the Clean Water Program Operations Section of the Department in your region:

Southeast Region – (484) 250-5970  
Northeast Region – (570) 826-2553  
Southcentral Region – (717) 705-4707

Northcentral Region – (570) 327-3636  
Southwest Region – (412) 442-4060  
Northwest Region – (814) 332-6942



## NON-COMPLIANCE REPORTING FORM

Use this supplemental form to report all permit violations and any other non-compliance that may endanger health or the environment, in accordance with your permit. Complete all sections that apply. If you are reporting violations of permit limits, monitoring requirements or schedules that do not pose an immediate threat to health or the environment, you may attach this form to the Discharge Monitoring Report (DMR). **Title 25, Pa. Code §§ 91.33 and 91.34 (regarding incidents causing or threatening pollution and activities utilizing pollutants, respectively), in part requires immediate notification by telephone to the Department of pollution incidents, remediation, and may require an additional report on the incident or plan of pollution prevention measures.** If you are reporting other non-compliance events, and the reporting deadline does not coincide with your submission of the DMR, it should be submitted separately to the Department by the reporting deadline set forth in the permit. See instructions for more information.

Facility Name: Beaver Valley Power Station Month: February Year: 2022  
 Municipality: Shippingport Borough County: Beaver Permit No.: PA0025615

☐ **Violations of Permit Effluent Limitations\***

Date	Parameter	Permit Limit	Units	Statistical Code	Result	Units	Cause of Violation	Corrective Action Taken

☐ **Sanitary Sewer Overflows and Other Unauthorized Discharges\***

Event Date	Substance Discharged	Location	Volume (gals)	Duration (hrs)	Receiving Waters	Impact on Waters	Cause of Discharge	Date DEP Notified

☒ **Other Permit Violations\***

☒ Sample collection less frequent than required

Explain 001 - FAC & Temperature data was not obtained for 2/4/2022 due to hazardous weather conditions.  
 010 - Temperature data was not obtained on 2/4/2022 due to hazardous weather conditions.

☐ Sample type not in compliance with permit

Explain \_\_\_\_\_

☐ Violation of permit schedule

Explain \_\_\_\_\_

☐ Other

Explain \_\_\_\_\_

☐ Other

Explain \_\_\_\_\_

**\*If the space provided is not sufficient to record all information, please attach additional sheets.**

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: Matt Enos

Title: General Plant Manager

Signature: 

Date: 3/24/2022

**ENCLOSURE C**





**SUPPLEMENTAL REPORT - CHEMICAL ADDITIVES USAGE**

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

Month: February 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		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	233.0		19.0		0.0		47.0		0.0		0.0		20.0			
2	243.0		19.0		0.0		47.0		0.0		0.0		18.0			
3	156.0		13.0		0.0		47.0		0.0		0.0		14.0			
4	0.0		0.0		0.0		47.0		0.0		0.0		5.0			
5	233.0		19.0		0.0		47.0		0.0		0.0		20.0			
6	233.0		0.0		0.0		47.0		0.0		0.0		18.0			
7	243.0		19.0		0.0		47.0		0.0		0.0		18.0			
8	233.0		19.0		0.0		24.0		0.0		0.0		20.0			
9	243.0		19.0		0.0		24.0		0.0		0.0		0.0			
10	233.0		19.0		0.0		24.0		0.0		0.0		26.0			
11	0.0		0.0		0.0		24.0		0.0		0.0		15.0			
12	233.0		19.0		0.0		24.0		0.0		0.0		22.0			
13	233.0		19.0		0.0		24.0		0.0		0.0		23.0			
14	233.0		19.0		0.0		24.0		0.0		0.0		15.0			
15	175.0		14.0		0.0		24.0		0.0		0.0		13.0			
16	185.0		14.0		0.0		24.0		0.0		0.0		13.0			
17	175.0		14.0		0.0		24.0		0.0		0.0		13.0			
18	242.0		19.0		0.0		24.0		0.0		0.0		19.0			
19	233.0		19.0		0.0		24.0		0.0		0.0		22.0			
20	233.0		19.0		0.0		24.0		0.0		0.0		22.0			
21	233.0		19.0		0.0		24.0		0.0		0.0		20.0			
22	243.0		19.0		0.0		24.0		0.0		0.0		26.0			
23	233.0		19.0		0.0		24.0		0.0		0.0		27.0			
24	117.0		10.0		0.0		24.0		0.0		0.0		10.0			
25	243.0		19.0		0.0		24.0		0.0		0.0		20.0			
26	233.0		19.0		0.0		24.0		0.0		0.0		20.0			
27	233.0		19.0		0.0		24.0		0.0		0.0		20.0			
28	243.0		19.0		0.0		24.0		0.0		0.0		21.0			
29																
30																
31																
Average	206.1		15.9				29.8						17.9			
Maximum	243.0		19.0				47.0						27.0			

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: 3/21/2022



**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: February 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	gallons	lbs
1	259.0		0.0		27.0		63.0		0.0		0.0					
2	259.0		28.0		27.0		63.0		0.0		0.0					
3	205.0		22.0		27.0		63.0		0.0		0.0					
4	0.0		0.0		0.0		63.0		0.0		0.0					
5	0.0		0.0		0.0		63.0		0.0		0.0					
6	259.0		28.0		27.0		63.0		0.0		0.0					
7	0.0		28.0		27.0		47.0		0.0		0.0					
8	259.0		28.0		27.0		17.0		0.0		0.0					
9	259.0		28.0		0.0		17.0		0.0		0.0					
10	259.0		28.0		27.0		17.0		0.0		0.0					
11	151.0		16.0		27.0		17.0		0.0		0.0					
12	259.0		28.0		27.0		17.0		0.0		0.0					
13	259.0		28.0		27.0		17.0		0.0		0.0					
14	0.0		0.0		0.0		17.0		0.0		0.0					
15	177.0		19.0		27.0		17.0		0.0		0.0					
16	194.0		21.0		27.0		17.0		0.0		0.0					
17	179.0		19.0		27.0		17.0		0.0		0.0					
18	259.0		28.0		27.0		17.0		0.0		0.0					
19	259.0		28.0		27.0		17.0		0.0		0.0					
20	259.0		28.0		27.0		17.0		0.0		0.0					
21	259.0		28.0		27.0		17.0		0.0		0.0					
22	259.0		28.0		27.0		17.0		0.0		0.0					
23	259.0		28.0		27.0		17.0		0.0		0.0					
24	129.0		14.0		27.0		17.0		0.0		0.0					
25	237.0		25.0		27.0		17.0		0.0		0.0					
26	259.0		28.0		27.0		17.0		0.0		0.0					
27	259.0		28.0		0.0		17.0		0.0		0.0					
28	259.0		28.0		0.0		17.0		0.0		0.0					
29																
30																
31																
Average	202.7		21.9		21.2		27.9									
Maximum	259.0		28.0		27.0		63.0									

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: 3/21/2022

**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: February 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	0.19															
2	0.42															
3	0.22															
4	0.19															
5	0.39															
6	0.0															
7	0.0															
8	0.45															
9	0.78															
10	0.26															
11	0.42															
12	0.13															
13	0.0															
14	0.39															
15	0.62															
16	0.13															
17	0.0															
18	0.58															
19	0.26															
20	0.0															
21	0.39															
22	0.78															
23	0.16															
24	0.0															
25	0.42															
26	0.38															
27	0.0															
28	0.06															
29																
30																
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: 3/21/2022



**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: February 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	10.0		0.0		0.0		2.0		0.0					
2	0.0		0.0		0.0		2.0		0.0					
3	5.0		0.0		0.0		2.0		0.0					
4	0.0		0.0		0.0		2.0		0.0					
5	0.0		0.0		0.0		2.0		0.0					
6	0.0		0.0		0.0		2.0		0.0					
7	0.0		0.0		0.0		2.0		0.0					
8	10.0		0.0		0.0		2.0		0.0					
9	0.0		0.0		0.0		2.0		0.0					
10	0.0		0.0		0.0		2.0		0.0					
11	0.0		0.0		0.0		2.0		0.0					
12	0.0		0.0		0.0		2.0		0.0					
13	0.0		0.0		0.0		2.0		0.0					
14	10.0		0.0		0.0		2.0		0.0					
15	0.0		0.0		0.0		2.0		0.0					
16	0.0		0.0		0.0		2.0		0.0					
17	10.0		0.0		0.0		2.0		0.0					
18	0.0		0.0		0.0		2.0		0.0					
19	0.0		0.0		0.0		2.0		0.0					
20	0.0		0.0		0.0		2.0		0.0					
21	10.0		0.0		0.0		2.0		0.0					
22	0.0		0.0		0.0		2.0		0.0					
23	10.0		0.0		0.0		2.0		0.0					
24	0.0		0.0		0.0		2.0		0.0					
25	0.0		0.0		0.0		2.0		0.0					
26	0.0		0.0		0.0		2.0		0.0					
27	0.0		0.0		0.0		2.0		0.0					
28	5.0		0.0		0.0		2.0		0.0					
29														
30														
31														
Average	2.5						2.0							
Maximum	10.0						2.0							

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: 3/21/2022



**SUPPLEMENTAL REPORT - CHEMICAL ADDITIVES USAGE**

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

Month: February 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
1	5.0		0.0											
2	5.0		0.0											
3	5.0		0.0											
4	5.0		0.0											
5	5.0		1.0											
6	0.0		0.0											
7	5.0		0.0											
8	5.0		0.0											
9	5.0		0.0											
10	5.0		1.0											
11	5.0		0.0											
12	5.0		0.0											
13	5.0		0.0											
14	5.0		0.0											
15	5.0		1.0											
16	5.0		0.0											
17	5.0		0.0											
18	5.0		0.0											
19	5.0		0.0											
20	5.0		0.0											
21	5.0		0.0											
22	5.0		0.0											
23	5.0		0.0											
24	5.0		1.0											
25	5.0		0.0											
26	5.0		0.0											
27	5.0		0.0											
28	5.0		0.0											
29														
30														
31														
Average	4.8		0.1											
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: 3/2/2022





**SUPPLEMENTAL REPORT - CHEMICAL ADDITIVES USAGE**

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

Month: February 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
1	7.0		0.0											
2	7.0		0.0											
3	7.0		1.0											
4	7.0		0.0											
5	7.0		1.0											
6	7.0		0.0											
7	7.0		0.0											
8	15.0		0.0											
9	17.0		0.0											
10	7.0		0.0											
11	7.0		5.0											
12	7.0		5.0											
13	7.0		5.0											
14	7.0		5.0											
15	7.0		5.0											
16	7.0		5.0											
17	7.0		5.0											
18	7.0		5.0											
19	7.0		5.0											
20	7.0		5.0											
21	7.0		5.0											
22	12.0		5.0											
23	7.0		5.0											
24	7.0		5.0											
25	7.0		5.0											
26	7.0		5.0											
27	7.0		5.0											
28	7.0		2.0											
29														
30														
31														
Average	7.8		3.2											
Maximum	17.0		5.0											

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: 3/2/2022

**ENCLOSURE D**



**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

3800-FM-BCW0435 3/2012

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

Month: 2 (select number) Year: 2022  
Permit No.: \_\_\_\_\_ Outfall: 001  
Renewal application due 180 days prior to expiration.  
This permit will expire on: October 31, 2026

Parameter			Flow	pH	TRC	Free Available Chlorine	Temperature	NH3-N	Total Aluminum	Total Chromium	Total Copper	Total Iron	Total Mercury	Total Zinc	Hydrazine	Nalco H150M	Total Phenolics
Stage			1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Week	Day	Date	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L	Q	mg/L
1	Sun	1/30/22															
	Mon	1/31/22															
	Tue	2/1/22	32.9		7.8	<	0.02	<	0.02			72.5					
	Wed	2/2/22	32.4					<	0.02			71.7					
	Thu	2/3/22	34.1					<	0.02			68.1					
	Fri	2/4/22	35.7														
	Sat	2/5/22	35.1					<	0.02			59.8					
2	Sun	2/6/22	34.5					<	0.02			65.4					
	Mon	2/7/22	33.4					<	0.02			65.1					
	Tue	2/8/22	33.9		7.7	<	0.02	<	0.02			59.7					
	Wed	2/9/22	32.3					<	0.02			57.2					
	Thu	2/10/22	31.8					<	0.02			69.1					
	Fri	2/11/22	32.8					<	0.02			62.9					
	Sat	2/12/22	33.4					<	0.02			63.1					
3	Sun	2/13/22	34.8					<	0.02			61.1					
	Mon	2/14/22	35.1		8.0		0.14	<	0.02			52.7					
	Tue	2/15/22	34.5					<	0.02			63.8					
	Wed	2/16/22	31.7					<	0.02			64.4					
	Thu	2/17/22	30.8					<	0.02			73.7					
	Fri	2/18/22	34.9					<	0.02			51					
	Sat	2/19/22	35.5					<	0.02			43.7					
4	Sun	2/20/22	34.2					<	0.02			44.7					
	Mon	2/21/22	30.9		7.9	<	0.02	<	0.02			35.6					
	Tue	2/22/22	30.9					<	0.02			59.5					
	Wed	2/23/22	33.8					<	0.02			61.1					
	Thu	2/24/22	37.6					<	0.02			65.5					
	Fri	2/25/22	39.4					<	0.02			64.7					
	Sat	2/26/22	39.5					<	0.02			62.9					
5	Sun	2/27/22	37.8					<	0.02			65.8					
	Mon	2/28/22	37.4					<	0.02			62					
Statistics for DMR																	
Daily Minimum (Conc.):					7.7	<	0.02	<	0.02			35.6					
Daily Maximum (Conc.):					8		0.14	<	0.02			73.7					
Max Avg Weekly (Conc.):							0.14	<	0.02			68					
Avg Monthly (Conc.):							0.1	<	0.02			61					
Geometric Mean (Conc.):																	
Max Avg Weekly (Load):			35.197796				41	<	6			904					
Avg Monthly (Load):			34.327898				14	<	6			490					
Total Monthly (Load):			961.181142				401	<	160			13714					
Daily Minimum (Load):			30.82317				5	<	5			76					
Daily Maximum (Load):			39.48054				41	<	7			904					

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: 3/14/2021

**SUPPLEMENTAL REPORT**  
**DAILY EFFLUENT MONITORING**

3800-FM-BCW0435 3/2012

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

Month: 2 (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																
Stage			1																
Week	Day	Date	MGD	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q	q
1	Sun	1/30/22																	
	Mon	1/31/22																	
	Tue	2/1/22	0.046																
	Wed	2/2/22																	
	Thu	2/3/22																	
	Fri	2/4/22																	
	Sat	2/5/22																	
2	Sun	2/6/22	0.046																
	Mon	2/7/22																	
	Tue	2/8/22																	
	Wed	2/9/22																	
	Thu	2/10/22																	
	Fri	2/11/22																	
	Sat	2/12/22																	
3	Sun	2/13/22	0.046																
	Mon	2/14/22																	
	Tue	2/15/22																	
	Wed	2/16/22																	
	Thu	2/17/22																	
	Fri	2/18/22																	
	Sat	2/19/22																	
4	Sun	2/20/22	0.046																
	Mon	2/21/22																	
	Tue	2/22/22																	
	Wed	2/23/22																	
	Thu	2/24/22																	
	Fri	2/25/22																	
	Sat	2/26/22																	
5	Sun	2/27/22	0.046																
	Mon	2/28/22																	
Statistics for DMR																			
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):			0.23																
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: 3/14/2022



Month: 2 (select number) Year: 2022  
 Permit No.: \_\_\_\_\_ Outfall: 003  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: October 31, 2026

Parameter			Flow	NH3-N	Total Aluminum	Total Mercury	Hydrazine	Nalco H150M												
Stage			1	1	1	1	1	1												
Week	Day	Date	MGD	S.U.	mg/L	mg/L	mg/L	mg/L												
1	Sun	1/30/22																		
	Mon	1/31/22																		
	Tue	2/1/22																		
	Wed	2/2/22	0.174		0.2	< 0.0002														
	Thu	2/3/22																		
	Fri	2/4/22																		
	Sat	2/5/22																		
2	Sun	2/6/22																		
	Mon	2/7/22																		
	Tue	2/8/22																		
	Wed	2/9/22																		
	Thu	2/10/22																		
	Fri	2/11/22																		
	Sat	2/12/22																		
3	Sun	2/13/22																		
	Mon	2/14/22																		
	Tue	2/15/22																		
	Wed	2/16/22	0.171		0.45	< 0.0002														
	Thu	2/17/22																		
	Fri	2/18/22																		
	Sat	2/19/22																		
4	Sun	2/20/22																		
	Mon	2/21/22																		
	Tue	2/22/22																		
	Wed	2/23/22																		
	Thu	2/24/22																		
	Fri	2/25/22																		
	Sat	2/26/22																		
5	Sun	2/27/22																		
	Mon	2/28/22																		
Statistics for DMR																				
Daily Minimum (Conc.):					0.2	< 0.0002														
Daily Maximum (Conc.):					0.45	< 0.0002														
Max Avg Weekly (Conc.):					0.45	< 0.0002														
Avg Monthly (Conc.):					0.33	< 0.0002														
Geometric Mean (Conc.):																				
Max Avg Weekly (Load):			0.174		0.3	< 0.0003														
Avg Monthly (Load):			0.173		0.3	< 0.0003														
Total Monthly (Load):			0.345		4	< 0.008														
Daily Minimum (Load):			0.171		0.3	< 0.0003														
Daily Maximum (Load):			0.174		0.3	< 0.0003														

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: **3/14/2022**



س-ف

3800-FM-BCW0435 3/2012

Month: 2 (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. § 4004 (relating to unsworn falsification).

License No.: \_\_\_\_\_  
Date: **3/14/2022**



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

Month: 2 (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: **3/14/2022**

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

Month: 2 (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 P.S. C.S. § 4004 (relating to unsworn fabrication).

Prepared By: James Harvey  
Title: Senior Nuclear Specialist

License No.: \_\_\_\_\_  
Date: **3/14/2022**



**SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING**

3800-FM-RCW0-435 3/2012

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

Month: 2 (select number) Year: 2022  
Permit No.: 010  
Renewal application due 180 days prior to expiration.  
This permit will expire on: October 31, 2026

Parameter			Flow	pH	TRC	Free Available Chlorine	Temperature	Total Mercury	NaIco H150M										
Stage			1	1	1	1	1												
Week	Day	Date	MGD	Q	S.U.	Q	mg/L	Q	mg/L	Q	°F	Q	mg/L	Q	mg/L	Q		Q	
1	Sun	1/30/22																	
	Mon	1/31/22																	
	Tue	2/1/22									40.1								
	Wed	2/2/22	4.32		7.2	<	0.02	<	0.02		40.2	<	0.0002						
	Thu	2/3/22					0.06		0.04		40.2								
	Fri	2/4/22																	
	Sat	2/5/22									40.1								
2	Sun	2/6/22									41.5								
	Mon	2/7/22									42								
	Tue	2/8/22	4.32		7.8		0.07		0.05		39.2	<	0.0002						
	Wed	2/9/22									39.7								
	Thu	2/10/22									39.2								
	Fri	2/11/22									39								
	Sat	2/12/22									39.9								
3	Sun	2/13/22									39.2								
	Mon	2/14/22	4.32		7.6		0.1		0.05		38.7								
	Tue	2/15/22									40.6								
	Wed	2/16/22									42.8								
	Thu	2/17/22									41.9								
	Fri	2/18/22									33.4								
	Sat	2/19/22									39.3								
4	Sun	2/20/22									38.8								
	Mon	2/21/22	4.32		7.8	<	0.02	<	0.02		27.9								
	Tue	2/22/22									37.5								
	Wed	2/23/22									32.9								
	Thu	2/24/22									41.44								
	Fri	2/25/22									52.5								
	Sat	2/26/22									51.9								
5	Sun	2/27/22									52.5								
	Mon	2/28/22									48.5								

Statistics for DMR																			
Daily Minimum (Conc.):					7.2	<	0.02	<	0.02		27.9	<	0.0002						
Daily Maximum (Conc.):					7.8		0.1		0.05		52.5	<	0.0002						
Max Avg Weekly (Conc.):							0.10		0.1		40	<	0.0002						
Avg Monthly (Conc.):							<	0.05	<	0.04	40.78	<	0.0002						
Geometric Mean (Conc.):																			
Max Avg Weekly (Load):	4.32						4		2			<	0.007						
Avg Monthly (Load):	4.32						<	2	<	1		<	0.007						
Total Monthly (Load):	17.28						<	42	<	28		<	0.2						
Daily Minimum (Load):	4.32						<	0.7	<	0.7		<	0.007						
Daily Maximum (Load):	4.32							4		2		<	0.007						

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: 3/17/2022

License No.: \_\_\_\_\_  
Date: **3/14/2022**



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

Month: 2 (select number) Year: 2022  
 Permit No.: \_\_\_\_\_ Outfall: 012  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: October 31, 2026

[illegible]

Statistics for DMR														
Daily Minimum (Conc.):		7	<	0.001	0.0036	<	0.005							
Daily Maximum (Conc.):		7.4	<	0.001	0.0039	<	0.005							
Max Avg Weekly (Conc.):			<	0.001	0.0039	<	0.005							
Avg Monthly (Conc.):			<	0.001	0.0038	<	0.005							
Geometric Mean (Conc.):														
Max Avg Weekly (Load):	0.014		<	0.0001	0.0005	<	0.0006							
Avg Monthly (Load):	0.014		<	0.0001	0.0004	<	0.0006							
Total Monthly (Load):	0.042		<	0.003	0.01	<	0.02							
Daily Minimum (Load):	0.014		<	0.0001	0.0004	<	0.0006							
Daily Maximum (Load):	0.014		<	0.0001	0.0005	<	0.0006							

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: **3/14/2022**

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

Month: 2 (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. § 4004 (relating to unjust falsification).

Prepared By: James Harvey  
Title: Senior Nuclear Specialist

License No.: \_\_\_\_\_  
Date: **3/14/2022**



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

Month: 2 (select number) Year: 2022  
 Permit No.: \_\_\_\_\_ Outfall: 101  
 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: **3/17/2022**

SUPPLEMENTAL REPORT  
DAILY EFFLUENT MONITORING

3800-FM-BCW0435 3/2012

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

Month: 2 (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 unsworn falsification).

Prepared By: James Harvey  
Title: Senior Nuclear Specialist

License No.: \_\_\_\_\_  
Date: **3/14/2022**



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

Month: 2 (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 Pa. C.S. § 4904 (relating to unsworn falsification).

Prepared By: James Harvey  
Title: Senior Nuclear Specialist

License No.: \_\_\_\_\_  
Date: **3/14/2022**

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

Month: 2 (select number) Year: 2022  
 Permit No.: \_\_\_\_\_ Outfall: 108  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: October 31, 2026

[illegible]

### Statistics for DMR

Daily Minimum (Conc.):  
 Daily Maximum (Conc.):  
 Max Avg Weekly (Conc.):  
 Avg Monthly (Conc.):  
 Geometric Mean (Conc.):  
 Max Avg Weekly (Load):  
 Avg Monthly (Load):  
 Total Monthly (Load):  
 Daily Minimum (Load):  
 Daily Maximum (Load):

[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 unsworn falsification).

Prepared By: James Harvey  
Title: Senior Nuclear Specialist

License No.: \_\_\_\_\_  
Date: **3/14/2022**



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

Month: 2 (select number) Year: 2022  
 Permit No.: \_\_\_\_\_ Outfall: 111  
 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: **3/14/2022**





## 3800-FM-BCW0435 3/2012

Month: 2 (select number) Year: 2022  
 Permit No.: \_\_\_\_\_ Outfall: 211  
 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: **3/14/2022**

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

Month: 2 (select number) Year: 2022  
 Permit No.: \_\_\_\_\_ Outfall: 403  
 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: **3/14/2022**









## 3800-FM-RCW0435 3/20/12

Month: 2 (select number) Year: 2022  
 Permit No.: \_\_\_\_\_ Outfall: 303  
 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: **3/14/2022**

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

Month: 2 (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][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. § 4004 (relating to unjust falsification).

Prepared By: James Harvey  
Title: Senior Nuclear Specialist

License No.: \_\_\_\_\_  
Date: **3/17/2022**



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

Month: 2 (select number) Year: 2022  
 Permit No.: \_\_\_\_\_ Outfall: 401  
 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: 2/7/2022



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

Month: 2 (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]

## Statistics for OMR

Daily Minimum (Conc.):  
 Daily Maximum (Conc.):  
 Max Avg Weekly (Conc.):  
 Avg Monthly (Conc.):  
 Geometric Mean (Conc.):  
 Max Avg Weekly (Load):  
 Avg Monthly (Load):  
 Total Monthly (Load):  
 Daily Minimum (Load):  
 Daily Maximum (Load):

[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. § 4004 (relating to unsworn falsification).

Prepared By: James Harvey  
Title: Senior Nuclear Specialist

License No.: \_\_\_\_\_  
Date: **3/14/2022**

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

Month: 2 (select number) Year: 2022  
 Permit No.: \_\_\_\_\_ Outfall: 701  
 Renewal application due 180 days prior to expiration.  
 This permit will expire on: October 31, 2026

[illegible]

## Statistics for DMR

Daily Minimum (Conc.):  
 Daily Maximum (Conc.):  
 Max Avg Weekly (Conc.):  
 Avg Monthly (Conc.):  
 Geometric Mean (Conc.):  
 Max Avg Weekly (Load):  
 Avg Monthly (Load):  
 Total Monthly (Load):  
 Daily Minimum (Load):  
 Daily Maximum (Load):

[illegible]

I certify under penalty of law that this document was prepared under my direction or supervision in accordance with a system designed to ensure 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: **3/14/2022**

**ENCLOSURE E**



# SUPPLEMENTAL REPORT - COOLING WATER INTAKE MONITORING

3800-FM-BCW0010 2/2020

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

Month: February 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					2.7			
2					2.72			
3					2.62			
4					*	Not obtained - unsafe weather conditions		
5					*			
6					2.89			
7					2.82			
8					1.69			
9					1.82			
10					2.25			
11					2.68			
12					2.22			
13					2.57			
14					1.62			
15					1.45			
16					1.48			
17					1.7			
18					1.65			
19					1.65			
20					1.25			
21					1.5			
22					1.38			
23					1.26			
24					1.69			
25					2.9			
26					2.98			
27					2.48			
28					1.92			
29								
30								
31								
Average					2.1			
Maximum					3.0			

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Prepared By: James Harvey  
Title: Senior Nuclear Specialist

License No.: \_\_\_\_\_  
Date: 3/21/2022

# 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: February 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					1.76			
2					1.94			
3					1.87			
4					*	Not obtained - unsafe weather conditions		
5					*			
6					1.83			
7					1.74			
8					2.02			
9					2.06			
10					1.9			
11					1.85			
12					1.93			
13					1.83			
14					1.72			
15					1.58			
16					1.65			
17					1.9			
18					1.86			
19					1.8			
20					1.36			
21					1.69			
22					1.45			
23					1.79			
24					1.53			
25					2.54			
26					2.01			
27					1.81			
28					1.4			
29								
30								
31								
Average					1.8			
Maximum					2.5			

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Prepared By: James Harvey  
Title: Senior Nuclear Specialist

License No.: \_\_\_\_\_  
Date: 3/21/2022