

January 25, 2019  
L-19-037

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**

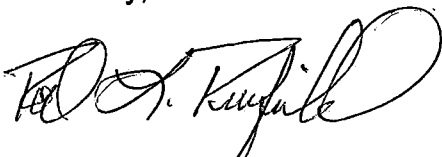
Enclosed is the December 2018 NPDES Discharge Monitoring Report (DMR) for FirstEnergy Nuclear Operating Company (FENOC), Beaver Valley Power Station (BVPS), and the 2018 Annual Metals DMR in accordance with the requirements of the Permit. Attachment 1 to this letter is supplemental monitoring data for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

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

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

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

Sincerely,



Rod L. Penfield  
General Plant Manager

IE25  
NRR

Beaver Valley Power Station, Unit Nos. 1 and 2  
L-19-037  
Page 2

**Attachment(s):**

1. Weekly Dissolved Oxygen Monitoring Results at Outfall 001

**Enclosure(s)**

- A. Monthly Discharge Monitoring Report
- B. Annual Discharge Monitoring Report
- C. Supplemental Laboratory Accreditation Forms

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

**ATTACHMENT 1**

**Weekly Dissolved Oxygen Monitoring Results at Outfall 001**

The following supplemental dissolved oxygen monitoring data for Outfall 001 is provided as agreed.

<b>SAMPLE DATE</b>	<b>SAMPLE TIME</b>	<b>VALUE</b>	<b>UNITS</b>
12/02/2018	08:50:00 AM	7.00	mg/L
12/09/2018	10:15:00 AM	7.00	mg/L
12/16/2018	10:50:00 AM	8.00	mg/L
12/23/2018	08:10:00 AM	8.00	mg/L
12/30/2018	08:10:00 AM	8.00	mg/L

- Attachment 1 END -



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD								
YEAR		MO	DAY		YEAR		MO	DAY
2018		12	01		2018		12	31
FROM				TO				

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	SAMPLE MEASUREMENT	***	***		***	***	8.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	***	Monitor & Report IMAX	mg/L	Monitor & Report	Monitor & Report
pH (00400)	SAMPLE MEASUREMENT	***	***		7.6	***	7.9		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***	GG	GG			
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	GG	GG			
	PERMIT REQUIREMENT	***	***		***	.034 Avg Mo	.034 Daily Max	mg/L	See Permit	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	33.4	39.3		***	***	***		Continuous	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	5 Avg Mo	1.25 IMAX	mg/L	1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		Continuous	Recorded
	PERMIT REQUIREMENT	***	***		***	2 Avg Mo	5 Daily Max	mg/L	Continuous	Recorded

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

**DISCHARGE MONITORING REPORT (DMR)**

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Hydrazine (81313)	SAMPLE MEASUREMENT	***	***		***	GG	GG			
	PERMIT REQUIREMENT	***	***		***	007 Avg Mo	007 Daily Max	mg/L	1/week	Grab
Facility Comments										



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NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

002
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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



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ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

003
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	12	01	FROM	2018	12	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.096	.105	MGD	***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		2/month	Estimate
Facility Comments										



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

PA0025615
PERMIT NUMBER

004
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD									
YEAR	MO	DAY	TO	YEAR	MO	DAY			
2018	12	01		2018	12	31			

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***		S.U.		
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT			MGD	***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Measured
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 Comments										





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NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH, 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615	006
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	TO	2018	12	31	

FROM

TO

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

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



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BUREAU OF CLEAN WATER**

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615
PERMIT NUMBER

007
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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



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ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

008
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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



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**DISCHARGE MONITORING REPORT (DMR)**

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ADDRESS: 76 S MAIN ST, AKRON, OH, 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615	010
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	12	01		2018	12	31

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.5	***	7.9	S.U.	1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min.	***	9.0 MAX		1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	GG	GG	mg/L		
	PERMIT REQUIREMENT	***	***		***	.034 Avg Mo	.034 Daily Max		Daily when Discharging	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	3.02	3.60	MGD	***	***	***		1/week	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.04	.09	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 MAX		1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.05	.10	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 Daily Max		1/week	Grab
Facility Comments										



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ADDRESS: 76 S MAIN ST, AKRON, OH, 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615

PERMIT NUMBER

011

OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY	TO	YEAR	MO	DAY	
2018	12	01		2018	12	31	

FROM

TO

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



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FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615	012
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		8.1	***	8.1		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/month	Grab
Copper, Total (01042)	SAMPLE MEASUREMENT	***	***		***	.0323	.0332		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	Grab
Zinc, Total (01092)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	1:5 Avg Mo	1:5 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	.001	.001		***	***	***		1/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/month	Estimate
Total Dissolved Solids (70295)	SAMPLE MEASUREMENT	***	***		***	228	260		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	Grab
Facility Comments										



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FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

013
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.5	***	7.6		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Cyanide, Total (00720)	SAMPLE MEASUREMENT	***	***		***	<.01	<.01		2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	24-Hr Composite
Chlorobenzene (34301)	SAMPLE MEASUREMENT	***	***		***	<.005	<.005		2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	24-Hr Composite
Copper, Total (01042)	SAMPLE MEASUREMENT	***	***		***	.0213	.0217		2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										



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ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

101
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	12	01		2018	12	31

FROM

TO

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





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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615	102
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.9	***	8.2		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	3.2	5.2		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	.001	.001		***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615
PERMIT NUMBER

103
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.9	***	7.1		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min.	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.0	<4.0		2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	30.0 Avg. Mo	100.0 Daily Max	mg/L	2/month	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	.096	.105		***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH, 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

111
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.7	***	8.6		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.0	<4.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615				113			
PERMIT NUMBER				OUTFALL NUMBER			

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***		S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***			mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	60.0 Daily Max			
Flow (50050)	SAMPLE MEASUREMENT			MGD	***	***	***		1/week	Measured
	PERMIT REQUIREMENT	043 Avg Mo	Monitor & Report Daily Max		***	***	***			
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***			mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	1.4 Avg Mo	3.3 IMAX			
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***			No./100 ml	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	2000 Geo Mean	***			
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	***	***		***			mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	25.0 Avg Mo	50.0 Daily Max			
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH, 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

203
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	12	01	FROM	2018	12	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	60.0 Daily Max	mg/L	2/month	8-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	.023 Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		***	1.4 Avg Mo	3.3 IMAX	mg/L	2/month	Grab
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		***	2000 Geo Mean	***	No./100 ml	2/month	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		***	25.0 Avg Mo	50.0 Daily Max	mg/L	2/month	8-Hr Composite
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

211
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.8	7.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH, 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

213
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

301
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<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	<5	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 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 Comments										





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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615
PERMIT NUMBER

303
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.1	***	8.3		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.2	4.4		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.014	.056		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

313
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	12	01		2018	12	31

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.5	***	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	***	***		***	6.6	9.0	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max		1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5	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 Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

401
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.6	***	***		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min.	***	***	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.0	<4.0		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg. Mo.	100.0 Daily Max.	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg. Mo.	20 Daily Max.	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	.001	.001		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg. Mo.	Monitor & Report Daily Max.	MGD	***	***	***		1/week	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615
PERMIT NUMBER

403
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

413
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	12	01		2018	12	31

FROM

TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615	501
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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

## COMMENT DETAILS

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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	SAMPLE MEASUREMENT	***	***		***	***	8.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	***	Monitor & Report IMAX	mg/L	Monitor & Report	Monitor & Report
pH (00400)	SAMPLE MEASUREMENT	***	***		7.6	***	7.9		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***	GG	GG			
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	GG	GG			
	PERMIT REQUIREMENT	***	***		***	.034 Avg Mo	.034 Daily Max	mg/L	See Permit	24-H Composite
Flow (50050)	SAMPLE MEASUREMENT	33.4	39.3		***	***	***		Continuous	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX	mg/L	1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		Continuous	Recorded
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 Daily Max	mg/L	Continuous	Recorded



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

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Hydrazine (81313)	SAMPLE MEASUREMENT	***	***		***	GG	GG			
	PERMIT REQUIREMENT	***	***		***	.007 Avg Mo	.007 Daily Max	mg/L	1/week	Grab
Facility Comments										





**COMMONWEALTH OF PENNSYLVANIA  
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BUREAU OF CLEAN WATER**

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

002
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	12	01		2018	12	31

FROM

TO

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



**COMMONWEALTH OF PENNSYLVANIA  
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BUREAU OF CLEAN WATER**

**DISCHARGE MONITORING REPORT (DMR)**

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ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

<b>PA0025615</b>
PERMIT NUMBER

<b>003</b>
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	12	01	TO	2018	12	31

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.096	.105		***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg. Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										



**COMMONWEALTH OF PENNSYLVANIA  
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**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615
PERMIT NUMBER

004
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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



**COMMONWEALTH OF PENNSYLVANIA  
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**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615	006
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD							
YEAR	MO	DAY	TO	YEAR	MO	DAY	
2018	12	01		2018	12	31	

FROM

TO

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

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



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

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

007
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY	TO	YEAR	MO	DAY	
2018	12	01		2018	12	31	

FROM

TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615  
 PERMIT NUMBER

008  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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



**COMMONWEALTH OF PENNSYLVANIA  
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BUREAU OF CLEAN WATER**

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ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

010
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.5	***	7.9		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst.Min	***	9.0 MAX	S.U.	1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	GG	GG			
	PERMIT REQUIREMENT	***	***		***	.034 Avg Mo	.034 Daily Max	mg/L	Daily when Discharging	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	3.02	3.60		***	***	***		1/week	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.04	.09		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 MAX	mg/L	1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.05	.10		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 Daily Max	mg/L	1/week	Grab
Facility Comments										



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**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615

PERMIT NUMBER

011

OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY	TO	YEAR	MO	DAY	
2018	12	01		2018	12	31	

FROM

TO

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





**COMMONWEALTH OF PENNSYLVANIA  
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ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

012
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	12	01		2018	12	31

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		8.1	***	8.1	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		1/month	Grab
Copper, Total (01042)	SAMPLE MEASUREMENT	***	***		***	.0323	.0332	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Zinc, Total (01092)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	1.5 Avg Mo	1.5 Daily Max		2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	.001	.001	MGD	***	***	***		1/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/month	Estimate
Total Dissolved Solids (70295)	SAMPLE MEASUREMENT	***	***		***	228	260	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	Grab
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615
PERMIT NUMBER

013
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	12	01	FROM	2018	12	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.5	***	7.6	S.U.	1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		1/week	Grab
Cyanide, Total (00720)	SAMPLE MEASUREMENT	***	***		***	<.01	<.01	mg/L	2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	24-Hr Composite
Chlorobenzene (34301)	SAMPLE MEASUREMENT	***	***		***	<.005	<.005	mg/L	2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		2/month	24-Hr Composite
Copper, Total (01042)	SAMPLE MEASUREMENT	***	***		***	.0213	.0217	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	.002	.002	MGD	***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		2/month	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

101
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

102
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	12	01	TO	2018	12	31

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.9	***	8.2		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	3.2	5.2		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	.001	.001		***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

103
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	TO	2018	12	31	

FROM

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.9	***	7.1		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.0	<4.0		2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	30.0 Avg. Mo	100.0 Daily Max	mg/L	2/month	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	.096	.105		***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

111
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2018	12	01		2018	12	31

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.7	***	8.6	S.U.	1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst:Min	***	9.0 IMAX		1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.0	<4.0	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max		1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5	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 Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615	113
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.0	***	9.0	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		Inst Min	***	MAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	***	***	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	60.0 Daily Max			
Flow (50050)	SAMPLE MEASUREMENT	***	***		***	***	***		1/week	Measured
	PERMIT REQUIREMENT	043 Avg Mo	Monitor & Report Daily Max	MGD	***	***	***			
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	***	***	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	1.4 Avg Mo	3.3 MAX			
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***	***	***	No./100 ml	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	2000 Geo Mean	***			
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	***	***		***	***	***	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	25.0 Avg Mo	50.0 Daily Max			
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

203
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	60.0 Daily Max	mg/L	2/month	8-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT				***	***	***			
	PERMIT REQUIREMENT	.023 Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		***	1.4 Avg Mo	3.3 IMAX	mg/L	2/month	Grab
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		***	2000 Geo Mean	***	No./100 ml	2/month	Grab
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		***	25.0 Avg Mo	50.0 Daily Max	mg/L	2/month	8-Hr Composite
Facility Comments										





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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

211
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 MAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.8	7.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH, 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

213
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

301
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	12	01	FROM	2018	12	31 TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615
PERMIT NUMBER

303
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.1	***	8.3		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.2	4.4		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.014	.056		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

313
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.5	***	7.6		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	6.6	9.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615	401
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD						
YEAR	MO.	DAY		YEAR	MO	DAY
2018	12	01	FROM	2018	12	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.6	***	***		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min	***	***	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.0	<4.0		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg. Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5	<5		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg. Mo	20 Daily Max	mg/L	2/month	Grab
Flow (50050)	SAMPLE MEASUREMENT	.001	.001		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg. Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615  
 PERMIT NUMBER

403  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	FROM	2018	12	31	TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

413
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 12/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	12	01	TO	2018	12	31	

FROM

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





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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615	501
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 12/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2018	12	01	FROM	2018	12	31
			TO			

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

## COMMENT DETAILS

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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH, 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Annually

DMR Effective From: 01/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	01	01	TO	2018	12	31	

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Chromium, Total (01034)	SAMPLE MEASUREMENT	***	***		***	<.01	<.01		2/year	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	2 Ann'l Avg	2 Daily Max	mg/L	2/year	24-Hr Composite
Zinc, Total (01092)	SAMPLE MEASUREMENT	***	***		***	<.04	.07		2/year	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	1.0 Ann'l Avg	1.0 Daily Max	mg/L	2/year	24-Hr Composite
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

NAME: FIRSTENERGY NUCLEAR OPR CO

ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615				004			
PERMIT NUMBER				OUTFALL NUMBER			

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	01	01	FROM	2018	12	31	TO

Reporting Frequency: Annually

DMR Effective From: 01/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Chromium, Total (01034)	SAMPLE MEASUREMENT	***	***		***	<.01	<.01		2/year	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	.2 Annl Avg	.2 Daily Max	mg/L	2/year	24-Hr Composite
Zinc, Total (01092)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		2/year	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	1.0 Annl Avg	1.0 Daily Max	mg/L	2/year	24-Hr Composite
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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

<b>PA0025615</b>
PERMIT NUMBER

<b>012</b>
OUTFALL NUMBER

Reporting Frequency: Annually  
 DMR Effective From: 01/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	01	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Chromium, Total (01034)	SAMPLE MEASUREMENT	***	***		***	<.01	<.01		2/year	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Annl Avg	Monitor & Report Daily Max	mg/L	2/year	Grab
Zinc, Total (01092)	SAMPLE MEASUREMENT	***	***		***	<.28	3.50		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Annl Avg	Monitor & Report Daily Max	mg/L	2/year	Grab
Facility Comments										

**COMMENT DETAILS**

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

**DISCHARGE MONITORING REPORT (DMR)**

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ADDRESS: 76 S MAIN ST, AKRON, OH , 44308

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

PA0025615
PERMIT NUMBER

001
OUTFALL NUMBER

Reporting Frequency: Annually

DMR Effective From: 01/01/2018

DMR Effective To: 12/31/2018

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	01	01	TO	2018	12	31	

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Chromium, Total (01034)	SAMPLE MEASUREMENT	***	***		***	<.01	<.01		2/year	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	2 Ann'l Avg	2 Daily Max	mg/L	2/year	24-Hr Composite
Zinc, Total (01092)	SAMPLE MEASUREMENT	***	***		***	<.04	.07		2/year	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	1.0 Ann'l Avg	1.0 Daily Max	mg/L	2/year	24-Hr Composite
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615				004			
PERMIT NUMBER				OUTFALL NUMBER			

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	01	01	TO	2018	12	31	

Reporting Frequency: Annually  
 DMR Effective From: 01/01/2018  
 DMR Effective To: 12/31/2018  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Chromium, Total (01034)	SAMPLE MEASUREMENT	***	***		***	<.01	<.01		2/year	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	2 Annl Avg	2 Daily Max	mg/L	2/year	24-Hr Composite
Zinc, Total (01092)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02		2/year	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	1.0 Annl Avg	1.0 Daily Max	mg/L	2/year	24-Hr Composite
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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PA0025615
PERMIT NUMBER

012
OUTFALL NUMBER

Reporting Frequency: Annually  
 DMR Effective From: 01/01/2018  
 DMR Effective To: 12/31/2018  
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 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2018	01	01	FROM	2018	12	31	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Chromium, Total (01034)	SAMPLE MEASUREMENT	***	***		***	<.01	<.01		2/year	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Annl Avg	Monitor & Report Daily Max	mg/L	2/year	Grab
Zinc, Total (01092)	SAMPLE MEASUREMENT	***	***		***	<.28	3.50		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Annl Avg	Monitor & Report Daily Max	mg/L	2/year	Grab
Facility Comments										

**COMMENT DETAILS**

COMMENTS	OPERATOR NAME	OPERATOR CERTIFICATION NUMBER	OPERATOR CONTACT NUMBER
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**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

## SUPPLEMENTAL LABORATORY ACCREDITATION FORM<sup>1</sup>

<b>Permittee Name:</b> <u>FirstEnergy Nuclear Operating Company</u>							
<b>Address:</b> <u>P.O. Box 4</u>							
<u>Shippingport, PA 15077</u>							
<u>Beaver Valley Power Station</u>							
<b>PERMIT NUMBER</b>				<b>MONITORING PERIOD</b> Year/Month/Day			
<b>PA0025615</b>				2018	12	01	TO 2018 12 31
<b>PARAMETER</b>	<b>ANALYSIS METHOD</b>	<b>LAB NAME</b>	<b>LAB ID NUMBER<sup>2</sup></b>				
Total Residual Chlorine	SM 4500-CL G [20 <sup>th</sup> ]	Beaver Valley Power Station	04-2742				
Free Available Chlorine	SM 4500-CL G [20 <sup>th</sup> ]	Beaver Valley Power Station	04-2742				
pH	SM 4500-H+ B [20 <sup>th</sup> ]	Beaver Valley Power Station	04-2742				
Temperature	SM 2550 B [20 <sup>th</sup> ]	Beaver Valley Power Station	04-2742				
Flow	NA	Beaver Valley Power Station	04-2742				
Total Suspended Solids (TSS)	SM 2540 D [20 <sup>th</sup> ]	Beaver Valley Power Station	04-2742				
Quaternary Amine Compounds	Photometric Determination 1/2-CHM-ANA-4.23H	Beaver Valley Power Station	04-2742				
Bentonite Detoxicant	Estimated using feed rate and discharge flow rate per NPDES Permit PA0025645	Beaver Valley Power Station	04-2742				
Hydrazine	ASTM D1385-01	Beaver Valley Power Station	04-2742				

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

**Name/Title Principal Executive Officer**

Rod L. Penfield  
General Plant Manager

**Phone:** 724-682-7773

**Date:** 1-23-19

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

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

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





**pennsylvania**  
DEPARTMENT OF ENVIRONMENTAL PROTECTION

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

## SUPPLEMENTAL LABORATORY ACCREDITATION FORM<sup>1</sup>

<b>Permittee Name:</b> <u>FirstEnergy Nuclear Operating Company</u>							
<b>Address:</b> <u>P.O. Box 4</u>							
<u>Shippingport, PA 15077</u>							
<u>Beaver Valley Power Station</u>							
<b>PERMIT NUMBER</b>				<b>MONITORING PERIOD</b> Year/Month/Day			
PA0025615				2018	12	01	TO 2018 12 31
<b>PARAMETER</b>	<b>ANALYSIS METHOD</b>	<b>LAB NAME</b>	<b>LAB ID NUMBER<sup>2</sup></b>				
Zinc	EPA 200.7 Rev 4.4	FirstEnergy Corp-Beta Lab	68-01120				
Copper	EPA 200.7 Rev 4.4	FirstEnergy Corp-Beta Lab	68-01120				
Iron	EPA 200.7 Rev 4.4	FirstEnergy Corp-Beta Lab	68-01120				
Chromium	EPA 200.7 Rev 4.4	FirstEnergy Corp-Beta Lab	68-01120				
Ammonia	SM 4500 NH3 F	FirstEnergy Corp-Beta Lab	68-01120				
Cyanide	SM 4500-CN E[11 <sup>m</sup> ]	FirstEnergy Corp-Beta Lab	68-01120				
Chlorobenzene	EPA 624	Test American-Canton Lab	68-00340				
Oil and Grease	EPA 1664 Rev A	FirstEnergy Corp-Beta Lab	68-01120				
Oil and Grease	EPA 1664 Rev A	PACE Analytical Services	65-00282				
Total Dissolved Solids	SM 2540 C *	FirstEnergy Corp-Beta Lab	68-01120				
Total Suspended Solids	SM 2540 D *	FirstEnergy Corp-Beta Lab	68-01120				
		* 2012 EPA Method Update Rule (MUR) no longer cites Standard Method editions					

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

**Name/Title Principal Executive Officer**

**Phone:** 724-682-7773

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

Rod L. Penfield  
General Plant Manager

**Date:** 1-23-19

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

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