

October 25, 2019  
L-19-252

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**

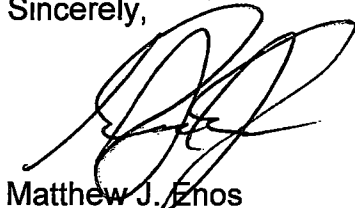
Enclosed is the September 2019 NPDES Discharge Monitoring Report (DMR) for FirstEnergy Nuclear Operating Company (FENOC), Beaver Valley Power Station (BVPS). Attachment 1 to this letter is supplemental monitoring data for Outfall 001 (dissolved oxygen).

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,



Matthew J. Enos  
General Plant Manager

TEZ5  
NRK

Beaver Valley Power Station, Unit Nos. 1 and 2  
L-19-252  
Page 2

Attachment(s):

1. Weekly Dissolved Oxygen Monitoring Results at Outfall 001

Enclosure(s)

- A. Monthly Discharge Monitoring Report
- B. Supplemental Lab 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

Discharge Monitoring Report Attachment for NPDES Permit No. PA0025615 L-19-252  
FirstEnergy Nuclear Operating Company (FENOC)  
Beaver Valley Power Station

**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>
09/01/2019	07:25:00 AM	8.00	mg/L
09/08/2019	07:35:00 AM	8.00	mg/L
09/15/2019	10:10:00 AM	7.00	mg/L
09/22/2019	07:35:00 AM	8.00	mg/L
09/29/2019	07:30:00 AM	8.00	mg/L

- Attachment 1 END -



**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>

**Permittee Name:** FirstEnergy Nuclear Operating Company

**Address:** P.O. Box 4

Shippingport, PA 15077

Beaver Valley Power Station

**PERMIT NUMBER**

**PA0025615**

**MONITORING PERIOD**

Year/Month/Day

2019

09

01

TO

2019

09

30

PARAMETER	ANALYSIS METHOD	LAB NAME	LAB ID NUMBER <sup>2</sup>
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  ½-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**

Matthew J. Enos  
General Plant Manager

**Phone:** 724-682-7773

**Date:** 10/22/19

**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

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BUREAU OF WATER STANDARDS AND FACILITY REGULATION

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

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<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				2019	09	01	TO 2019 09 30
<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	Test America-Pittsburgh Lab	02-00416				
Copper	EPA 200.7 Rev 4.4	Test America-Pittsburgh Lab	02-00416				
Iron	EPA 200.7 Rev 4.4	Test America-Pittsburgh Lab	02-00416				
Chromium	EPA 200.7 Rev 4.4	Test America-Pittsburgh Lab	02-00416				
Ammonia	SM 4500 NH3 F	Test America-Pittsburgh Lab	02-00416				
Cyanide	SM 4500-CN E	Test America-Pittsburgh Lab	02-00416				
Chlorobenzene	EPA 624	Test America-Pittsburgh Lab	02-00416				
Oil and Grease	EPA 1664 Rev A	Test America-Canton Lab	68-00340				
Copper	EPA 200.8	Test America-Pittsburgh Lab	02-00416				
Total Dissolved Solids (TDS)	SM 2450 C	Test America-Pittsburgh Lab	02-00416				
		* 2012 EPA Method Update Rule (MUR) no longer cites Standard Method editions					

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Matthew J. Enos  
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**Date:** 10/22/19

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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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2019	09	01	FROM	2019	09	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	SAMPLE MEASUREMENT	***	***		***	***	8.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	***	Monitor & Report Daily Max	mg/L	Monitor & Report	Monitor & Report
pH (00400)	SAMPLE MEASUREMENT	***	***		7.7	***	8.2		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	27.3	34.8		***	***	***		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  
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 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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**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	002
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	TO	2019	09	30

FROM

TO

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

**003**  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.112	.175		***	***	***		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

004
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	09	01		2019	09	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.9	***	8.4	S.U.	1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	3.85	7.71	MGD	***	***	***		1/week	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX		1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02	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

006
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

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

007
OUTFALL NUMBER

Reporting Frequency: Monthly  
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 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	TO	2019	09	30

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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 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

008
OUTFALL NUMBER

Reporting Frequency: Monthly  
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 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	TO	2019	09	30

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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 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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.4	***	7.5		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	GG	GG			
	PERMIT REQUIREMENT	***	***		***	.034 Avg Mo	.034 Daily Max	mg/L	Daily when Discharging	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	4.03	4.32		***	***	***		1/week	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.02	.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		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 Daily Max	mg/L	1/week	Grab
Facility Comments										



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FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA , 15077

STAGE: Final Effluent

<b>PA0025615</b>
PERMIT NUMBER

<b>011</b>
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 09/01/2019

DMR Effective To: 09/30/2019

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	09	01		2019	09	30

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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 STAGE: Final Effluent

PA0025615
PERMIT NUMBER

012
OUTFALL NUMBER

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 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
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MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.5	***	7.5		1/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/month	Grab
Copper, Total (01042)	SAMPLE MEASUREMENT	***	***		***	<.025	<.025		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	***	***		***	255	270		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	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

013
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	09	01		2019	09	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.6	***	7.7	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	***	***		***	<.001	<.001	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	***	***		***	<.025	<.025	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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

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



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

**DISCHARGE MONITORING REPORT (DMR)**

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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2019	09	01		2019	09	30	

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.1	***	7.3	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	9.8	10.3	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max		2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.1	<5.1	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 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 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: 09/01/2019

DMR Effective To: 09/30/2019

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	09	01		2019	09	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.8	***	7.2	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	17.3	28.0	mg/L	2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max		2/month	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	.098	.119	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

111
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.1	***	8.5		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	***	***		***	<5.1	5.1		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

113  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	09	01		2019	09	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		***	***	***	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX			
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	***	***	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	***	***		***	200 Geo Mean	***			
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	***	***		***	***	***	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	25.0 Avg Mo	50.0 Daily Max			
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01		2019	09	30

FROM

TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

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: 09/01/2019

DMR Effective To: 09/30/2019

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	TO	2019	09	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.5	***	7.7		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.7	6.4		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.1	<5.2		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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2019	09	01	FROM	2019	09	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	09	01		2019	09	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<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	***	***		***	<5.1	<5.1	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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30 TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.6	***	7.7		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<5.2	6.6		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.1	<5.2		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

**401**  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.4	***	GG			
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	Monitor & Report IMAX	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	***	***		***	<5.4	<5.8		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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30 TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***					
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	1/week	Grab
Clamrol 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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2019	09	01		2019	09	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***		S.U.		
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		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 Avg Mo	20 Daily Max		1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT			MGD	***	***	***			
	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

501  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01		2019	09	30

FROM

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	***	***		***			mg/L		
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max		1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT			MGD	***	***	***			
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Dissolved Oxygen (00300)	SAMPLE MEASUREMENT	***	***		***	***	8.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	***	Monitor & Report Daily Max	mg/L	Monitor & Report	Monitor & Report
pH (00400)	SAMPLE MEASUREMENT	***	***		7.7	***	8.2		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	27.3	34.8		***	***	***		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										



**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	002
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD								
YEAR		MO	DAY		YEAR		MO	DAY
2019		09	01		2019		09	30
FROM				TO				

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.006	.046		***	***	***		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

003
OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 09/01/2019

DMR Effective To: 09/30/2019

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	TO	2019	09	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.112	.175	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

004  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	09	01		2019	09	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.9	***	8.4	S.U.	1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	3.85	7.71	MGD	***	***	***		1/week	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX		1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.02	<.02	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 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
PERMIT NUMBER

006
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	TO	2019	09	30

FROM

TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

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



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

**DISCHARGE MONITORING REPORT (DMR)**

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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

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





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

**DISCHARGE MONITORING REPORT (DMR)**

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	010
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2019	09	01		2019	09	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.4	***	7.5		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min.	***	9.0 IMAX	S.U.	1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	GG	GG			
	PERMIT REQUIREMENT	***	***		***	.034 Avg Mo	.034 Daily Max	mg/L	Daily when Discharging	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	4.03	4.32		***	***	***		1/week	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		1/week	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.02	.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		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 Daily Max	mg/L	1/week	Grab
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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	011
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	TO	2019	09	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.004	.004		***	***	***		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

012
OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2019	09	01		2019	09	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.5	***	7.5	S.U.	1/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 MAX		1/month	Grab
Copper, Total (01042)	SAMPLE MEASUREMENT	***	***		***	<.025	<.025	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	***	***		***	255	270	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)**

NAME: FIRSTENERGY NUCLEAR OPR CO

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

FACILITY: FIRSTENERGY BEAVER VALLEY POWER STATION 1

LOCATION: PA ROUTE 168, SHIPPINGPORT, PA, 15077

STAGE: Final Effluent

PA0025615

PERMIT NUMBER

013

OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 09/01/2019

DMR Effective To: 09/30/2019

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2019	09	01		2019	09	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.6	***	7.7		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	***	***		***	<.001	<.001		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	***	***		***	<.025	<.025		2/month	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	24-Hr Composite
Flow (50050)	SAMPLE MEASUREMENT	.002	.002		***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		2/month	Estimate
Facility Comments										



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

**DISCHARGE MONITORING REPORT (DMR)**

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

PA0025615	101
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

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



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

**DISCHARGE MONITORING REPORT (DMR)**

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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2019	09	01	FROM	2019	09	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.1	***	7.3		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	9.8	10.3		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	2/month	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.1	<5.1		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	103
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2019	09	01	FROM	2019	09	30	TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.8	***	7.2		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	17.3	28.0		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	.098	.119		***	***	***		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: 09/01/2019

DMR Effective To: 09/30/2019

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	TO	2019	09	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.1	***	8.5		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	***	***		***	<5.1	5.1		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

113

OUTFALL NUMBER

Reporting Frequency: Monthly

DMR Effective From: 09/01/2019

DMR Effective To: 09/30/2019

Permit Expires: 12/27/2006

Permit Application Due: 06/30/2006

No Discharge: ☒

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2019	09	01	FROM	2019	09	30	TO

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



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

**DISCHARGE MONITORING REPORT (DMR)**

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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	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	***	***		***	200 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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.5	***	7.7		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.7	6.4		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.1	<5.2		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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***				
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	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	301
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	2019	09	01		2019	09	30

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<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	***	***		***	<5.1	<5.1		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	303
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD								
YEAR		MO	DAY		YEAR		MO	DAY
2019		09	01		2019		09	30

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



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

**DISCHARGE MONITORING REPORT (DMR)**

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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.6	***	7.7		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<5.2	6.6		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.1	<5.2		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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☐

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	TO	2019	09	30

FROM

TO

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.4	***	GG			
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	Monitor & Report IMAX	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	***	***		***	<5.4	<5.8		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	403
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	FROM	2019	09	30

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 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	***	***			***				
	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: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
2019	09	01		2019	09	30

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**  
 PERMIT NUMBER

**501**  
 OUTFALL NUMBER

Reporting Frequency: Monthly  
 DMR Effective From: 09/01/2019  
 DMR Effective To: 09/30/2019  
 Permit Expires: 12/27/2006  
 Permit Application Due: 06/30/2006  
 No Discharge: ☒

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	09	01	TO	2019	09	30

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

## COMMENT DETAILS

COMMENTS	OPERATOR NAME	OPERATOR CERTIFICATION NUMBER	OPERATOR CONTACT NUMBER
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