

June 24, 2019
L-19-165

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

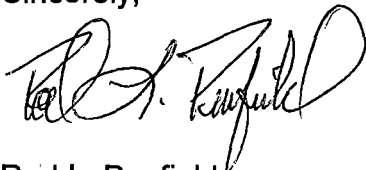
Enclosed is the May 2019 NPDES Discharge Monitoring Report (DMR) for FirstEnergy Nuclear Operating Company (FENOC), Beaver Valley Power Station (BVPS). Attachment 1 to this letter is supplemental monitoring data for Outfall 001 (dissolved oxygen).

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,



Rod L. Penfield
General Plant Manager

IEZ5
NRR

Beaver Valley Power Station, Unit Nos. 1 and 2
L-19-165
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

ATTACHMENT 1

Weekly Dissolved Oxygen Monitoring Results at Outfall 001

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

SAMPLE DATE	SAMPLE TIME	VALUE	UNITS
05/05/2019	10:15:00 AM	7.00	mg/L
05/12/2019	08:00:00 AM	7.00	mg/L
05/19/2019	08:15:00 AM	7.00	mg/L
05/26/2019	07:40:00 AM	7.00	mg/L

- Attachment 1 END -



SUPPLEMENTAL LABORATORY ACCREDITATION FORM¹

Permittee Name: <u>FirstEnergy Nuclear Operating Company</u>										
Address: <u>P.O. Box 4</u>										
<u>Shippingport, PA 15077</u>										
<u>Beaver Valley Power Station</u>										
PERMIT NUMBER				MONITORING PERIOD Year/Month/Day						
PA0025615				2019	05	01	TO	2019	05	31
PARAMETER	ANALYSIS METHOD	LAB NAME	LAB ID NUMBER ²							
Total Residual Chlorine	SM 4500-CL G [20 th]	Beaver Valley Power Station	04-2742							
Free Available Chlorine	SM 4500-CL G [20 th]	Beaver Valley Power Station	04-2742							
pH	SM 4500-H+ B [20 th]	Beaver Valley Power Station	04-2742							
Temperature	SM 2550 B [20 th]	Beaver Valley Power Station	04-2742							
Flow	NA	Beaver Valley Power Station	04-2742							
Total Suspended Solids (TSS)	SM 2540 D [20 th]	Beaver Valley Power Station	04-2742							
Quaternary Amine Compounds	Photometric Determination	Beaver Valley Power Station	04-2742							
	½-CHM-ANA-4.23H									
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: 6/21/19

Signature of Principal Executive Officer or Authorized Agent

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

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


SUPPLEMENTAL LABORATORY ACCREDITATION FORM¹

Permittee Name: <u>FirstEnergy Nuclear Operating Company</u>							
Address: <u>P.O. Box 4</u> <u>Shippingport, PA 15077</u> <u>Beaver Valley Power Station</u>							
PERMIT NUMBER				MONITORING PERIOD Year/Month/Day			
PA0025615				2019	05	01	TO 2019 05 31
PARAMETER	ANALYSIS METHOD	LAB NAME	LAB ID NUMBER ²				
Zinc	EPA 200.7 Rev 4.4	Test America-Canton Lab	68-00340				
Copper	EPA 200.7 Rev 4.4	Test America-Canton Lab	68-00340				
Iron	EPA 200.7 Rev 4.4	Test America-Canton Lab	68-00340				
Chromium	EPA 200.7 Rev 4.4	Test America-Canton Lab	68-00340				
Ammonia	SM 4500 NH3 F	Test America-Canton Lab	68-00340				
Cyanide	SM 4500-CN E	Test America-Canton Lab	68-00340				
Chlorobenzene	EPA 624	Test America-Canton Lab	68-00340				
Oil and Grease	EPA 1664 Rev A	Test America-Canton Lab	68-00340				
Copper	EPA 200.8	Test America-Canton Lab	68-00340				
Total Dissolved Solids	SM 2540 C *	FirstEnergy Corp-Beta Lab	68-01120				
* 2012 EPA Method Update Rule (MUR) no longer cites Standard Method editions							

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Name/Title Principal Executive Officer
Phone: 724-682-7773
**Signature of Principal Executive Officer or
Authorized Agent**
Rod L. Penfield
 General Plant Manager

Date: 6/21/19

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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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	***		***	***	7.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	***	Monitor & Report Daily Max	mg/L	Monitor & Report	Monitor & Report
pH (00400)	SAMPLE MEASUREMENT	***	***		7.6	***	8.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min	***	9.0 MAX	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
Clamrol 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	24.6	30.6		***	***	***		Continuous	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.05	.15		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 MAX	mg/L	1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.06	.18		Continuous	Recorded
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 Daily Max	mg/L	Continuous	Recorded



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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	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	007 Avg Mo.	007 Daily Max			
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	002
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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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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	003
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
Flow (50050)	SAMPLE MEASUREMENT	.143	.293	MGD	***	***	***		2/month	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		2/month	Estimate
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	004
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***			1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst.Min	***	9.0 MAX	S.U.		
Flow (50050)	SAMPLE MEASUREMENT	***	***		***	***	***		1/week	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg.Mo	Monitor & Report Daily.Max	MGD	***	***	***			
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***				1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg.Mo	1.25 MAX	mg/L		
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***				1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.2 Avg.Mo	.5 Daily.Max	mg/L		
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	006
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			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
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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	007
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***			***			1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.		
Flow (50050)	SAMPLE MEASUREMENT	***	***		***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***			
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	***	***		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX	mg/L		
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	***	***		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	5 Daily Max	mg/L		
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	008
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	TO	2019	05	31

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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 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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.2	***	7.4		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	3,168	3,600		***	***	***		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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 STAGE: Final Effluent

PA0025615	011
PERMIT NUMBER	OUTFALL NUMBER

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MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			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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 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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	7.7		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	***	***		***	<.05	<.05		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	232		2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	2/month	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	013
PERMIT NUMBER	OUTFALL NUMBER

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
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 No Discharge:

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.4	***	7.0	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	***	***		***	<.019	<.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	Laboratory utilized two methods for Copper analysis during May 2019. Analysis method 200.7 R4.4 was used for one sample while method 200.8 was performed on the second, resulting in varying reporting limits.									



**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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
FROM			TO			
YEAR	MO	DAY	YEAR	MO	DAY	
2019	05	01	2019	05	31	

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	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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.2	***	7.9		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	4.7	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	<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	103
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.8	***	7.5	S.U.	2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<7.1	10.1	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	.129	.237	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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	8.7		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 MAX	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	***	***		***	<5.6	<6.1		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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	***		***	30.0	60.0	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Flow (50050)	SAMPLE MEASUREMENT	***	***	MGD	***	***	***		1/week	Measured
	PERMIT REQUIREMENT	043	Monitor & Report		***	***	***			
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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2019	05	01	FROM	2019	05	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	***	***		***	30.0	60.0	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Flow (50050)	SAMPLE MEASUREMENT	***	***	MGD	***	***	***		1/week	Measured
	PERMIT REQUIREMENT	.023	Monitor & Report		***	***	***			
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	211
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
FROM			TO			
YEAR	MO	DAY	YEAR	MO	DAY	
2019	05	01	2019	05	31	

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	***	***		***	<4.2	4.9		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo.	100.0 Daily Max.	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.7	<5.9		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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	***		***	30.0	100.0	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	15	20	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	Daily Max			
Flow (50050)	SAMPLE MEASUREMENT	***	***	MGD	***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***			
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	.5	1.25	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	Avg Mo	IMAX			
Facility Comments										



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

DISCHARGE MONITORING REPORT (DMR)

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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	***		***	<5.9	<6.2		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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.8	***	8.6		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min	***	9.0 MAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<5.1	6.7		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg. Mo.	100.0 Daily Max.	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.6	<5.7		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	313
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	TO	2019	05	31

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.4	***	7.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<7.9	12.5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.6	<5.9		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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		8.9	***	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	***	***		***	<5.8	<6.1		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
PERMIT NUMBER

403
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2019	05	01	FROM	2019	05	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	413
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	TO	2019	05	31

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	***	***		***	30.0 Avg. Mo.	100.0 Daily Max.	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg. Mo.	20 Daily Max.	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		***	***	***			
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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	TO	2019	05	31

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	001
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	***		***	***	7.0	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	***	Monitor & Report Daily Max		Monitor & Report	Monitor & Report
pH (00400)	SAMPLE MEASUREMENT	***	***		7.6	***	8.0	S.U.	1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX		1/week	Grab
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***	GG	GG	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max		1/week	Grab
Clamtrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	GG	GG	mg/L	See Permit	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	034 Avg Mo	034 Daily Max		1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	24.6	30.6		***	***	***	MGD	Continuous	Measured
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***		Continuous	Measured
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	<.05	.15	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 IMAX		1/week	Grab
Free Available Chlorine (50064)	SAMPLE MEASUREMENT	***	***		***	<.06	.18	mg/L	Continuous	Recorded
	PERMIT REQUIREMENT	***	***		***	.2 Avg Mo	.5 Daily Max		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	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	007 Avg Mo.	007 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	002
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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										



**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	003
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD							
YEAR			MO	DAY	YEAR		
2019	05	01			2019	05	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	.143	.293		***	***	***		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	004
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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
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	006
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	TO	2019	05	31

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	007
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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										



**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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	TO	2019	05	31

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										



**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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.2	***	7.4		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	3.168	3.600		***	***	***		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 MAX	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
PERMIT NUMBER

011
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD							
YEAR			MO	DAY	YEAR		
2019	05	01			2019	05	31

FROM

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	012
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	TO	2019	05	31

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.7	***	7.7		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	***	***		***	<.05	<.05		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	232		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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.4	***	7.0		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	***	***		***	<.019	<.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	Laboratory utilized two methods for Copper analysis during May 2019. Analysis method 200.7 R4.4 was used for one sample while method 200.8 was performed on the second, resulting in varying reporting limits.									



**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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD							
YEAR	MO	DAY		YEAR	MO	DAY	
2019	05	01	FROM	2019	05	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	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Composite
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L	1/week	Grab
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	1/week	Grab
	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	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max	mg/L	1/week	Grab
	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	102
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		7.2	***	7.9		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min.	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	4.7	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	<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	103
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD							
YEAR			MO			DAY	
2019	05	01	2019	05	31		

FROM

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.8	***	7.5		2/month	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min.	***	9.0 IMAX	S.U.	2/month	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<7.1	10.1		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	.129	.237		***	***	***		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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	8.7		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min.	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<4.0	<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	***	***		***	<5.6	<6.1		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	113
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	***		***	***	***	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	***	***		***	1.4 Avg Mo	3.3 IMAX	mg/L	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	***	***			
Fecal Coliform (74055)	SAMPLE MEASUREMENT	***	***		***	200 Geo Mean	***	No./100 ml	2/month	Grab
	PERMIT REQUIREMENT	***	***		***	***	***			
Carbonaceous Biochemical Oxygen Demand (CBOD5) (80082)	SAMPLE MEASUREMENT	***	***		***	25.0 Avg Mo	50.0 Daily Max	mg/L	2/month	8-Hr Composite
	PERMIT REQUIREMENT	***	***		***	***	***			
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		203	
PERMIT NUMBER		OUTFALL NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	YEAR
2019	05	01	2019
FROM		TO	

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 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	***	***		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	***	***	MGD	***	***	***		1/week	Measured
	PERMIT REQUIREMENT	.023	Monitor & Report		***	***	***			
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	211
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	***		***	<4.2	4.9		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo.	100.0 Daily Max.	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.7	<5.9		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	213
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			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 MAX				
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			
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	***	***	mg/L	2/month	Grab	
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo	20 Daily Max	mg/L			
Flow (50050)	SAMPLE MEASUREMENT	***	***	MGD	***	***	***		1/week	Estimate	
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max		***	***	***				
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	5 Avg Mo	1.25 MAX	mg/L	2/month	Grab	
	PERMIT REQUIREMENT	***	***		***	5 Avg Mo	1.25 MAX	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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	***		***	<5.9	<6.2	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	303
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.8	***	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	***	***		***	<5.1	6.7	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo.	100.0 Daily Max.		1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.6	<5.7	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg Mo.	20 Daily Max.		1/week	Grab
Flow (50050)	SAMPLE MEASUREMENT	.014	.056		***	***	***	MGD	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	313
PERMIT NUMBER	OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	TO	2019	05	31

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		6.4	***	7.0		1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst Min	***	9.0 IMAX	S.U.	1/week	Grab
Total Suspended Solids (00530)	SAMPLE MEASUREMENT	***	***		***	<7.9	12.5		1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	<5.6	<5.9		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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	31
			TO			

PARAMETER		QUANTITY OR LOADING			QUANTITY OR CONCENTRATION				SAMPLING FREQUENCY	SAMPLING TYPE
		VALUE	VALUE	UNITS	VALUE	VALUE	VALUE	UNITS		
pH (00400)	SAMPLE MEASUREMENT	***	***		8.9	***	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	***	***		***	<5.8	<6.1		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		403	
PERMIT NUMBER		OUTFALL NUMBER	
MONITORING PERIOD			
YEAR	MO	DAY	
2019	05	01	TO
YEAR	MO	DAY	
2019	05	31	

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 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	***	***		***	***	***		S.U.	1/week	Grab
	PERMIT REQUIREMENT	***	***		6.0 Inst. Min.	***	9.0 MAX				
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				
Ammonia-Nitrogen (00610)	SAMPLE MEASUREMENT	***	***		***	***	***		mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max				
Clamrol CT-1 (04251)	SAMPLE MEASUREMENT	***	***		***	***	***		mg/L	Daily when Discharging	24-Hr Composite
	PERMIT REQUIREMENT	***	***		***	.001 Avg Mo	.001 Daily Max				
Flow (50050)	SAMPLE MEASUREMENT	***	***		***	***	***		MGD	1/week	Estimate
	PERMIT REQUIREMENT	***	***		***	Monitor & Report Avg Mo	Monitor & Report Daily Max				
Total Residual Chlorine (TRC) (50060)	SAMPLE MEASUREMENT	***	***		***	***	***		mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.5 Avg Mo	1.25 MAX				
Hydrazine (81313)	SAMPLE MEASUREMENT	***	***		***	***	***		mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	.001 Avg Mo	.001 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

413
OUTFALL NUMBER

Reporting Frequency: Monthly
 DMR Effective From: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	***		***	30.0 Avg.Mo	100.0 Daily.Max	mg/L	1/week	Grab
	PERMIT REQUIREMENT	***	***		***	15 Avg.Mo	20 Daily.Max	mg/L	1/week	Grab
Oil and Grease (00556)	SAMPLE MEASUREMENT	***	***		***	***	***			
	PERMIT REQUIREMENT	***	***		***	***	***			
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: 05/01/2019
 DMR Effective To: 05/31/2019
 Permit Expires: 12/27/2006
 Permit Application Due: 06/30/2006
 No Discharge:

MONITORING PERIOD						
YEAR	MO	DAY		YEAR	MO	DAY
2019	05	01	FROM	2019	05	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	***	***		***				1/week	Grab
	PERMIT REQUIREMENT	***	***		***	30.0 Avg Mo	100.0 Daily Max	mg/L		
Flow (50050)	SAMPLE MEASUREMENT				***	***	***		1/week	Estimate
	PERMIT REQUIREMENT	Monitor & Report Avg Mo	Monitor & Report Daily Max	MGD	***	***	***			
Facility Comments										

COMMENT DETAILS

COMMENTS	OPERATOR NAME	OPERATOR CERTIFICATION NUMBER	OPERATOR CONTACT NUMBER
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