



Environmental Protection Plan

NMP1L3591
May 28, 2024

U.S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, DC 20555-0001

Nine Mile Point Nuclear Station, Units 1 & 2
Renewed Facility Operating License No. DPR-63, NPF-69
Docket Nos. 50-220, 50-410

Subject: Response to NY State Pollutant Discharge Elimination System (SPDES) Permit
Request for Information & Modification Request

Enclosed is a copy of the Nine Mile Point Nuclear Station (NMPNS) responses to the New York State Department of Environmental Conservation (NYSDEC) Request for Information (RFI) regarding the comprehensive review of the SPDES Permit under the Environmental Benefit Permit Strategy and proposed modifications to the SPDES Permit NY-000 1015.

This information is being concurrently submitted to the NRC pursuant to:

- Nine Mile Point Unit 1 letter dated April 15, 1983, which states that any changes of the SPDES Permit will be provided to the NRC.
- Nine Mile Point Unit 2 Environmental Protection Plan (Appendix B to Renewed Facility Operating License No. NPF-69), Section 3.2, requires that proposed changes of the SPDES Permit be reported to the NRC at the same time the change is submitted to the permitting agency.

There are no regulatory commitments contained in this letter.

Should you have any questions regarding the information in this submittal, please contact David Victome at (315) 349-1364.

Sincerely,

Shultz, Brandon K.

Digitally signed by Shultz,
Brandon K.

Date: 2024.05.28 13:47:34 -04'00'

Brandon Shultz, Manager Site Regulatory Assurance, Nine Mile Point Nuclear Station

BKS/DSV

Attachment: Nine Mile Point Nuclear Station Response to NYSDEC Request for
Information

COOL

IE25

NRR

May 28, 2024
Page 2

cc: (without enclosures)
Regional Administrator, Region I, USNRC
NMP Project Manager, USNRC
NMP Senior Resident Inspector, USNRC

Attachment 1

Nine Mile Point Nuclear Station Response to NYSDEC Request for Information



Peter Orphanos
Site Vice President
Nine Mile Point
348 Lake Road
Oswego, NY 13126
(609) 709-6218
Peter.Orphanos@Constellation.com

May 24, 2024

NMPE1334

Monica Moss, P.E.
NYSDEC Bureau of Water Permits
625 Broadway
Albany, New York 12233-3506

Nine Mile Point Nuclear Station, LLC
SPDES Permit Number NY-000 1015
DEC Number 7-3556-00013/00001

Subject: Re: Nine Mile Point Nuclear Station, NY0001015
SPDES Permit Request for Information

Dear Miss Moss,

In accordance with the State Pollution Discharge Elimination System (SPDES) Permit Number NY-000 1015 for Nine Mile Point Nuclear Station (NMPNS), attached are NMPNS responses to New York State Department of Environmental Conservation (NYSDEC) Request for Information (RFI) regarding the comprehensive review of the SPDES Permit under the Environmental Benefit Permit Strategy (EBPS). NMPNS responses including analytical data for intake and outfall samples, as well as the information from Discharge Monitoring Reports (DMR) for monitoring periods within the last four-and-a-half years, are enclosed herewith in Appendix A. NMPNS has summarized and provided references to applicable information that have previously been submitted to NYSDEC.

In addition to the response to the RFI, NMPNS respectfully requests the inclusion of the following modifications to the SPDES Permit NY-000 1015:

I. Considering the high quality of the Unit 2 Reverse Osmosis reject stream water that is currently discharged via Outfall 026 and then Outfall 040 to Lake Ontario, NMPNS requests to route the Reverse Osmosis reject stream to the Unit 2 intake. NMP will continue to monitor for each batched discharge at Outfall 026.

II. NMPNS investigations revealed that historical use of sulfuric acid water treatment chemical (WTC) was a contributing source of mercury (Hg) identified in Outfall 040 and has since switched to using a sulfuric acid WTC with lower mercury levels (0.1 ppm, compared to 2 ppm previously). Safety Data Sheets for the two sources of sulfuric acid are provided as Attachment 1 in Appendix 2.


May 24, 2024

III. NMPNS requests a language modification for Footnote #6 to apply on a calendar year basis, instead of the operating year basis. This will streamline annual reporting for the facility. Specific language is provided in Attachment 2 of Appendix 2.

IV. The current permit waives pH sampling and reporting at Outfall 001 – Unit 2 Storm Drain from November to March to avoid unsafe sampling conditions; further, NMPNS may adjust sampling dates if unsafe conditions exist outside of November to March. NMPNS requests this waiver apply to Storm Drain Outfall 020, in addition to Outfall 001.

If you have any questions, contact David Victomé at (315) 349-1364.

Sincerely,

 5/22/24

Peter Orphanos
Site Vice President


PMO/DSV

cc: Emily Kosinski (NYSDEC, Albany)

Attachments: **(1) Appendix A – NMPNS Responses to the NYSDEC RFI**
(2) Appendix B – NMPNS Additional Permit Modification Requests

Appendix A

NMPNS Responses to the NYSDEC RFI

DEC Identification Number 7-3556-00013/00001		SPDES Permit Number NY0001015		Facility Name Nine Mile Point Nuclear Station		Form Approved: 5/12/2023	
Form NY-2C PART I SPDES		 Department of Environmental Conservation		New York State Department of Environmental Conservation Application for SPDES Permit to Discharge Wastewater GENERAL INFORMATION			
SECTION 1. PERMIT ACTION REQUESTED							
Permit Action Requested	1.1	What is the reason for submitting this application?					
		<input type="checkbox"/> A NEW proposed Discharge <input checked="" type="checkbox"/> An EBPS REQUEST FOR INFORMATION response <input type="checkbox"/> A RENEWAL of an existing permit <input type="checkbox"/> A MODIFICATION of the existing permit (describe below) <input type="checkbox"/> An EXISTING discharge currently without permit					
	1.2	Increased Discharge Request					
	Is this application a request for an increase in the quantity of water discharged from your facility to the waters of the State? <input type="checkbox"/> Yes → Describe the increase: <input checked="" type="checkbox"/> No → Skip to Item 2.1						
SECTION 2. PERMITTEE & FACILITY NAME, LEGAL STATUS, MAILING ADDRESS, AND LOCATION (40 CFR 122.21(f)(2))							
Permittee & Facility Name, Legal Status, Mailing Address, and Location	2.1	Permittee Name					
		Nine Mile Point Nuclear Station, LLC					
	2.2	Permittee Mailing Address					
	Street or P.O. box						
	348 Lake Road						
	City or town		State		ZIP code		
	Oswego		NY		13126		
	2.3	Permittee Legal Status					
	<input type="checkbox"/> Public—federal <input type="checkbox"/> Public—state <input type="checkbox"/> Other public (specify) _____ <input checked="" type="checkbox"/> Private <input type="checkbox"/> Other (specify) _____						
	2.4	Facility Name					
Nine Mile Point Nuclear Station							
2.5	NYSDEC Identification Number						
7-3556-00013/00001							
2.6	Facility Contact						
Name (first and last)		Title		Phone number			
David Victome		Environmental Specialist		(315) 349-1364			
Email address							
David.Victome@Constellation.com							
2.7	Facility Location						
Street, route number, or other specific identifier							
348 Lake Road							
County name		County code (if known)					
Oswego							
City or town		State		ZIP code			
Oswego		NY		13126			

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SECTION 3. SIC AND NAICS CODES (40 CFR 122.21(f)(3))

SIC and NAICS Codes	3.1	SIC Code(s)	Description (optional)
		4911	Electric Services
	3.2	NAICS Code(s)	Description (optional)
		221113	Electric power generation, nuclear

SECTION 4. OPERATOR INFORMATION (40 CFR 122.21(f)(4))

Operator Information	4.1	Name of Operator	
		Nine Mile Point Nuclear Station, LLC	
	4.2	Is the name you listed in Item 4.1 also the owner?	
		<input checked="" type="checkbox"/> Yes → Skip to Item 5.1 <input type="checkbox"/> No	
Operator Information Continued	4.3	Operator Status	
		<input type="checkbox"/> Public—federal <input type="checkbox"/> Public—state <input type="checkbox"/> Other public (specify) _____ <input type="checkbox"/> Private <input type="checkbox"/> Other (specify) _____	
	4.4	Phone Number of Operator	
Operator Information Continued	4.5	Operator Address	
		Street or P.O. Box	
		City or town	State ZIP code
		Email address of operator	

SECTION 5. INDIAN LAND (40 CFR 122.21(f)(5))

Indian Land	5.1	Is the facility located on Indian Land?
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No

SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Existing Environmental Permits	6.1	Existing Environmental Permits (check all that apply and print or type the corresponding permit number for each)		
		<input checked="" type="checkbox"/> SPDES NY0001015	<input checked="" type="checkbox"/> RCRA (hazardous wastes) NYD000730432	<input type="checkbox"/> UIC (underground injection)
		<input type="checkbox"/> PSD (air emissions)	<input type="checkbox"/> Nonattainment program (CAA)	<input type="checkbox"/> NESHAPs (CAA)
		<input type="checkbox"/> Ocean dumping (MPRSA)	<input type="checkbox"/> Dredge or fill (CWA Section 404)	<input checked="" type="checkbox"/> Other (specify) See Attachment 1

DEC Identification Number 7-3556-00013/00001	SPDES Permit Number NY0001015	Facility Name Nine Mile Point Nuclear Station	Form Approved: 5/12/2023
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SECTION 7. MAP (40 CFR 122.21(f)(7))

Map	7.1	Have you attached a topographic map containing all required information to this application? (See instructions for specific requirements.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No See Attachment 2
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SECTION 8. NATURE OF BUSINESS (40 CFR 122.21(f)(8))

Nature of Business	8.1	Describe the nature of your business. The Nine Mile Point Nuclear Station (NMPNS) is located on the southeastern shore of Lake Ontario in Oswego, New York. NMPNS consists of two boiling water nuclear reactor units, which produce steam that turns turbines to generate electricity. The units withdraw cooling water from Lake Ontario. See Attachment 3.
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SECTION 9. WATER SUPPLY & COOLING WATER INTAKE STRUCTURES (40 CFR 122.21(f)(9))

Water Supply Source(s)	9.1	What water supply source(s) does your facility use? Identify the name or owner of each source. (check all that apply) <input checked="" type="checkbox"/> Municipal <input checked="" type="checkbox"/> Private Intake <input type="checkbox"/> Private Well <input type="checkbox"/> Other (specify) Owner: <u>Oswego, NY</u> <u>Lake Ontario</u>										
	9.2	Provide the amount of water typically consumed from each of these sources. <table style="width: 100%; border: none;"> <tr> <td style="width: 20%;">Municipal</td> <td style="width: 20%;">65,065.00</td> <td style="width: 20%;">GPD</td> <td style="width: 20%;">Private Well</td> <td style="width: 20%;">MGD</td> </tr> <tr> <td>Private Intake</td> <td>401.90</td> <td>MGD</td> <td>Other</td> <td>MGD</td> </tr> </table>	Municipal	65,065.00	GPD	Private Well	MGD	Private Intake	401.90	MGD	Other	MGD
Municipal	65,065.00	GPD	Private Well	MGD								
Private Intake	401.90	MGD	Other	MGD								
	9.3	Is the facility located within a sole source aquifer as shown on Exhibit 2C-6? <input type="checkbox"/> Yes → Complete Application Supplement B (see SPDES website) <input checked="" type="checkbox"/> No										
Cooling Water Intake Structures	9.4	Does your facility use any of these water sources for cooling water? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 10.1.										
	9.5	Identify the sources used for cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J and NYSDEC Commissioner's Policy 52 (CP-52) may have additional application requirements. Consult with NYSDEC to determine if additional information is needed.) See Attachment 4										
Thermal Discharges	9.6	If your industry group is listed (see instructions), or the temperature of your temperature by greater than 3°F, provide the following data in (°F): <table style="width: 100%; border: none;"> <tr> <td style="width: 25%;">Avg. Temp.</td> <td style="width: 25%;">Max Temp.</td> <td style="width: 25%;">Avg. Delta T</td> <td style="width: 25%;">Max Delta T</td> </tr> <tr> <td>83.40</td> <td>110.80</td> <td>29.40</td> <td>36.20</td> </tr> </table> <div style="border: 1px solid black; padding: 2px; font-size: small; margin-top: 5px;"> Unit 1 in form entries; Unit 2 as follows: Avg.T = 63.3, Max T = 87.3 Avg.DeltaT=11.9, Max DeltaT=19.4 </div>	Avg. Temp.	Max Temp.	Avg. Delta T	Max Delta T	83.40	110.80	29.40	36.20		
Avg. Temp.	Max Temp.	Avg. Delta T	Max Delta T									
83.40	110.80	29.40	36.20									

SECTION 10. VARIANCE REQUESTS (40 CFR 122.21(f)(10))

Variance Requests	10.1	Do you intend to request or renew one or more variances pursuant to 6 NYCRR 702.17 or authorized at 40 CFR 122.21(m)? (Check all that apply). Consult with NYSDEC to determine what information is needed.		
		<table style="width: 100%; border: none;"> <tr> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Fundamentally different factors (CWA Section 301(n)) <input type="checkbox"/> Non-conventional pollutants (CWA Section 301(c) and (g)) <input type="checkbox"/> NYS WQBEL (6 NYCRR 702.17) </td> <td style="width: 50%; vertical-align: top;"> <input type="checkbox"/> Water quality related effluent limitations (CWA Section 302(b)(2)) <input checked="" type="checkbox"/> Thermal discharges (CWA Section 316(a)) <input type="checkbox"/> Not applicable </td> </tr> </table>	<input type="checkbox"/> Fundamentally different factors (CWA Section 301(n)) <input type="checkbox"/> Non-conventional pollutants (CWA Section 301(c) and (g)) <input type="checkbox"/> NYS WQBEL (6 NYCRR 702.17)	<input type="checkbox"/> Water quality related effluent limitations (CWA Section 302(b)(2)) <input checked="" type="checkbox"/> Thermal discharges (CWA Section 316(a)) <input type="checkbox"/> Not applicable
<input type="checkbox"/> Fundamentally different factors (CWA Section 301(n)) <input type="checkbox"/> Non-conventional pollutants (CWA Section 301(c) and (g)) <input type="checkbox"/> NYS WQBEL (6 NYCRR 702.17)	<input type="checkbox"/> Water quality related effluent limitations (CWA Section 302(b)(2)) <input checked="" type="checkbox"/> Thermal discharges (CWA Section 316(a)) <input type="checkbox"/> Not applicable			

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SECTION 11. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))		
Part I Checklist	11.1	In Column 1 below, mark the sections of Form NY-2C Part I that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert NYSDEC. Note that not all applicants are required to provide attachments.
	Column 1	Column 2
	<input checked="" type="checkbox"/> Section 1: Permit Action Requested	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 2: Name, Mailing Address, and Location	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 3: SIC Codes	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 4: Operator Information	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 5: Indian Land	<input type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 6: Existing Environmental Permits	<input checked="" type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 7: Map	<input checked="" type="checkbox"/> w/ topographic map <input type="checkbox"/> w/ additional attachments
	<input checked="" type="checkbox"/> Section 8: Nature of Business	<input checked="" type="checkbox"/> w/ attachments
	<input checked="" type="checkbox"/> Section 9: Water Supply & CWIS	<input checked="" type="checkbox"/> w/ attachments <input type="checkbox"/> w/ Sole Source Aquifer Supplement
	<input checked="" type="checkbox"/> Section 10: Variance Requests	<input type="checkbox"/> w/ attachments
<input checked="" type="checkbox"/> Section 11: Checklist	<input type="checkbox"/> w/ attachments	

PART II of Form NY-2C begins on the next page.

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ATTACHMENT 1

SECTION 6. EXISTING ENVIRONMENTAL PERMITS (40 CFR 122.21(f)(6))

Issuing Agency	Permit Type	Permit Number
NYSDEC	SPDES	NY0001015
NYSDEC	RCRA (Hazardous wastes)	NYD000730432
NYSDEC	Fish and Wildlife License	523
NYSDEC	Pesticide	79634
NYSDEC	Hazardous Material Bulk Storage ¹	7-000058
NYSDEC	Petroleum Material Bulk Storage	7-429880
NYSDEC	Water Withdrawal	7-3556-00013/00033, WWA No. 11,749
NYSDEC	Beaver Damage Permit	35283
NYSDEC	Excavation & Fill in Navigable Waters	7-3556-00013/00034
NYSDEC	Water Quality Certification	7-3556-00013/00035
USFWS	Permit for Bird Salvage and Transport	N/A
USDOT	Registration (Transport of Hazardous Material)	051022550113EG
State of Tennessee	Radioactive Shipment License	T-NY002-L06
SC Department of Health and Environmental Control	SC Radioactive Waste Transport Unit #1	0004-31-06-X
SC Department of Health and Environmental Control	SC Radioactive Waste Transport Unit #2	0408-31-06-X
Virginia Department of Emergency Management	Registration (Transport of Hazardous Material)	CE-43006

¹ exempted on 9/22/2016

NYSDEC = New York State Department of Environmental Conservation

USFWS = United States Fish and Wildlife Service

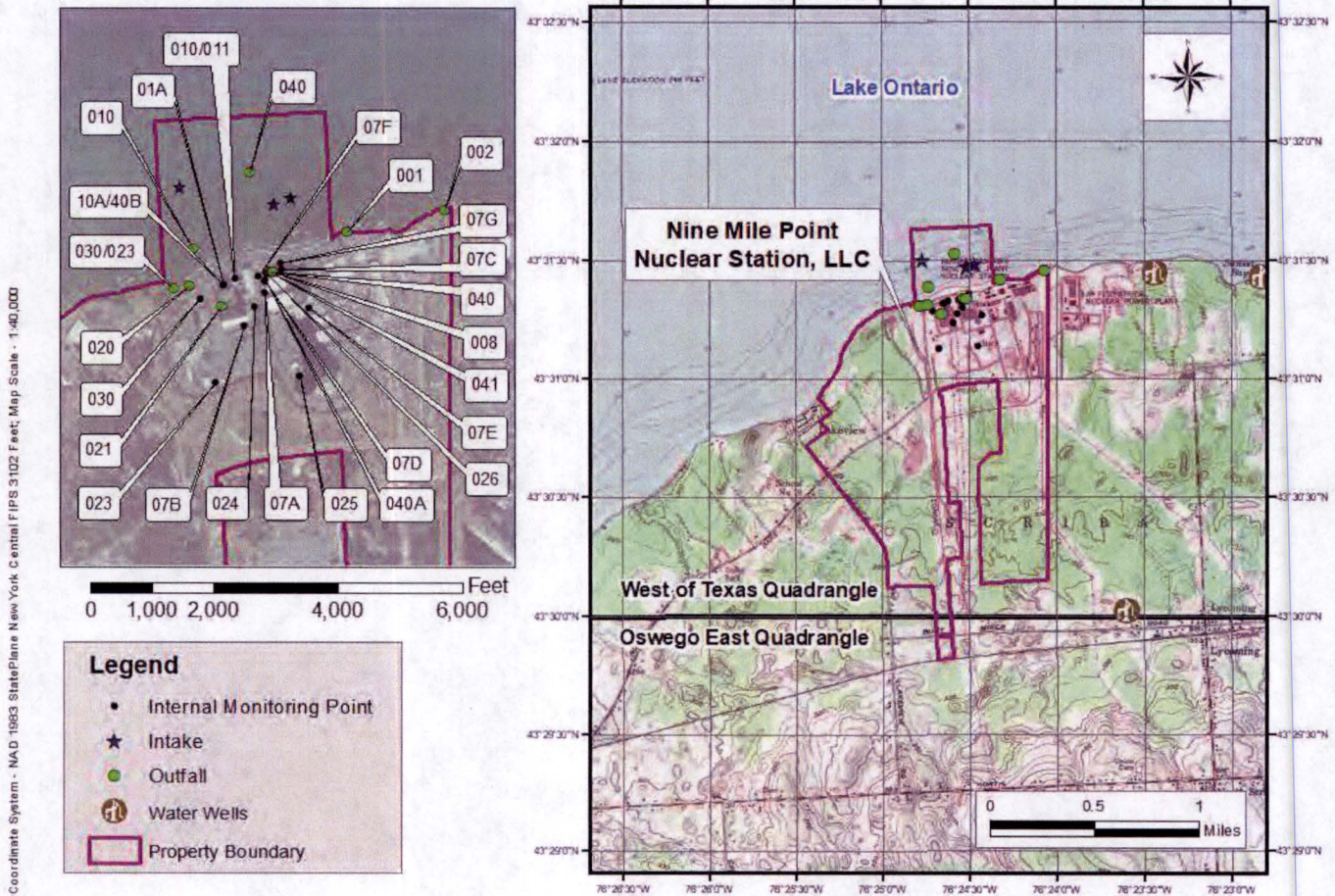
USDOT = United States Department of Transportation

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ATTACHMENT 2

SECTION 7. MAP (40 CFR 122.21(f)(7))

West of Texas and Oswego East, 7.5-Minute Quadrangles - New York, Oswego County



USGS Topographic Maps - USGS National Map, Esri, Tax Parcels - Oswego County GIS; Well Locations - NYSDEC Division of Water Resource Management

5/20/2024

Topographic Map of the Facility

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**ATTACHMENT 3
FORM NY-2C, PART I**

**SECTION 8. NATURE OF BUSINESS
(40 CFR 122.21(f)(8))**

8.1 Describe the nature of your business

The Nine Mile Point Nuclear Station (NMPNS) is located on the southeastern shore of Lake Ontario in Oswego, New York. NMPNS consists of two boiling water nuclear reactor units, which produce steam that turns turbines to generate electricity.

The units withdraw cooling water from Lake Ontario. Cooling water systems for each unit include a circulating water system (CWS) and a service water system (SWS). For each unit, the CWS circulates cooling water through the main condenser to condense steam after it passes through the turbine. Each unit's SWS circulates cooling water through heat exchangers that service various plant components. Both the CWS and SWS for Unit 1 are once-through systems. The SWS for Unit 2 is also a once-through system. However, the Unit 2 CWS is a closed-cycle system that uses a cooling tower. Some of the discharge from the SWS is added to the CWS to make up for losses due to evaporation from the cooling tower and CWS blow down.

Units 1 and 2 have separate intake and discharge structures located offshore in Lake Ontario. Onshore, each Unit has a separate screenwell and pumphouse structure.

DEC Identification Number 7-3556-00013/00001	SPDES Permit Number NY0001015	Facility Name Nine Mile Point Nuclear Station
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ATTACHMENT 4
FORM NY-2C, PART I

SECTION 9. WATER SUPPLY & COOLING WATER INTAKE STRUCTURES
(40 CFR 122.21(f)(9))

9.5 Identify the sources used for cooling water. (Note that facilities that use a cooling water intake structure as described at 40 CFR 125, Subparts I and J and NYSDEC Commissioner's Policy 52 (CP-52) may have additional application requirements. Consult with NYSDEC to determine if additional information is needed.)

Nine Mile Point Unit 1 uses an offshore velocity cap intake (nominally 1,100 feet from the facility) to withdraw cooling water from Lake Ontario and Nine Mile Point Unit 2 has two offshore velocity cap intakes (nominally 1,325 feet and 1,240 feet from the facility for the west and east intakes, respectively) in Lake Ontario.

Pursuant to prior requirements in the SPDES permit, the facility has submitted the following reports to comply with Clean Water Act (CWA) §316(b) and CP-52. As NYSDEC begins to make a Best Technology Available (BTA) determination consistent with CWA §316(b) and CP-52, Nine Mile Point can be available to respond to any questions or provide updated information regarding Nine Mile Point's intake structures.

CENG. 2010. Design and Construction Technology Plan (DCTR). Letter dated June 1, 2020.

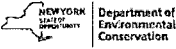
EA Engineering, Science, and Technology, Inc. (EA). 2009. Impingement and Entrainment Summary Report for Nine Mile Point Nuclear Station Unit 1, 2006-2007 Studies. Prepared for Constellation Generation Group. October

EA. 2010. Comprehensive Assessment of Impingement Mortality and Entrainment to Support Determination of Best Technology Available under the Clean Water Act Section 316(b) for the Nine Mile Point Nuclear Station Units 1 And 2. Prepared for Constellation Generation Group. May 2010.

AECOM. 2018. Closed-Cycle Recirculating System Design and Construction Technology Review. Nine Mile Point Nuclear Station, Scriba, New York. April 5, 2018

ENERCON. 2020. CWA 316(b) Technical Response Support to New York State Department of Environmental Conservation (NYSDEC) Questions for the Nine Mile Point Unit 1 Nuclear Station. Report No. EXLN72-REPT-002.

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Form NY-2C PART II SPDES		New York State Department of Environmental Conservation Application for SPDES Permit to Discharge Wastewater NEW AND EXISTING INDUSTRIAL OPERATIONS DETAILED INFORMATION
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SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1)) & RECEIVING WATER DESCRIPTION (6 NYCRR 750-1.7(a))

Outfall Location & Receiving Water Description	1.1	Provide information on each of the facility's outfalls and the receiving waters in the table below.			
		See Attachment 5	Outfall 001 (OF)	Outfall 01A (IMP)	Outfall 002 (OF)
		Latitude	43 ° 31 ' 25.0" N	42 ° 31 ' 18.0" N	43 ° 31 ' 19.7" N
		Longitude	76 ° 24 ' 19.2" W	76 ° 24 ' 38.7" W	76 ° 24 ' 36.8" W
		Receiving Water Name	Lake Ontario	Lake Ontario via Outfall 001	Lake Ontario
		Water Index Number (WIN)	Ont (portion 11)	Ont (portion 11)	Ont (portion 11)
		Waterbody Inventory/ Priority Waterbodies List (WI/PWL) Segment	0302-0041	0302-0041	0302-0041
		Water Classification	A	A	A
		Groundwater Discharges Only:			
		Soil Type			
	Depth to Water Table	ft	ft	ft	

SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))

Line Drawing	2.1	Have you attached a line drawing to this application that shows the water flow through your facility with a water balance? (See instructions for drawing requirements. See Exhibit 2C-3 at end of instructions for example.) <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
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SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))

Average Flows and Treatment	3.1	For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.		
		Outfall Number		
		Operations Contributing to Flow		
		Operation	Average Flow	Maximum Flow
		See Attachment 7	MGD	MGD
			MGD	MGD
			MGD	MGD
			MGD	MGD
		Treatment Units		
		Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
	See Attachment 7			

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Average Flows and Treatment Continued	3.1 cont.	**Outfall Number** _____		
		Operations Contributing to Flow		
		Operation	Average Flow	Maximum Flow
		See Attachment 7	MGD	MGD
			MGD	MGD
			MGD	MGD
			MGD	MGD
		Treatment Units		
		Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
		Outfall Number _____		
		Operations Contributing to Flow		
		Operation	Average Flow	Maximum Flow
			MGD	MGD
			MGD	MGD
			MGD	MGD
			MGD	MGD
		Treatment Units		
		Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge

WTCs	3.2	<p>Does the facility utilize or plan to utilize any water treatment chemicals that can potentially be discharged from one or more outfalls?</p> <p> <input checked="" type="checkbox"/> Yes → Complete Table F <input type="checkbox"/> No → SKIP to Item 3.3. </p>
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Mixing Zone Form	3.3	<p>Has a Mixing Zone Analysis Form been completed and attached? All applicants must complete at least the Simple Form for each wastewater outfall to surface waters. Indicate which form was completed and is attached to this application.</p> <p> <input checked="" type="checkbox"/> Yes → Simple Form <input type="checkbox"/> Yes → Detailed Form </p>
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Form Approved: 5/12/2023

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))

Intermittent Flows	4.1	Except for storm runoff, leaks, or spills, are any discharges described in Sections 1 and 3 intermittent or seasonal? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 5.					
	4.2	Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.					
		Outfall Number	Operation (list)	Frequency		Flow Rate	
				Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily
		See	days/week	months/year	MGD	MGD	days
		Attachment 8	days/week	months/year	MGD	MGD	days
			days/week	months/year	MGD	MGD	days
			days/week	months/year	MGD	MGD	days
			days/week	months/year	MGD	MGD	days
			days/week	months/year	MGD	MGD	days

SECTION 5. PRODUCTION (40 CFR 122.21(g)(5))

Applicable ELGs	5.1	Do any effluent limitation guidelines (ELGs) promulgated by EPA under Section 304 of the CWA apply to your facility? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 5.5.		
	5.2	Provide the following information on applicable ELGs.		
		ELG Category	ELG Subcategory	Regulatory Citation
		Steam Electric Power Generating		40 CFR 423
Production-Based Limitations	5.3	Are any of the applicable ELGs expressed in terms of production (or other measure of operation)? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 5.5.		
	5.4	Provide an actual measure of daily production expressed in terms and units of applicable ELGs.		
		Outfall Number	Operation, Product, or Material	Quantity per Day
Specific Industry	5.5	Is your industry type listed as a specific industry requiring submission of a supplemental application form (see instructions)? <input checked="" type="checkbox"/> Yes, supplemental form attached <input type="checkbox"/> No → SKIP to Section 6.		

SECTION 6. SCHEDULED IMPROVEMENTS (40 CFR 122.21(g)(6))

Upgrades and Improvements	6.1	Are you presently voluntarily improving or required by any federal, state, or local authority to meet an implementation schedule for constructing, upgrading, or operating wastewater treatment equipment or practices or any other environmental programs that could affect the discharges described in this application?			
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Item 6.3.			
	6.2	Briefly identify each applicable project in the table below.			
		Brief Identification and Description of Project	Affected Outfalls (list outfall number)	Source(s) of Discharge	Final Compliance Dates Required Projected
	6.3	Have you attached sheets describing any additional water pollution control programs (or other environmental projects that may affect your discharges) that you now have underway or planned? <i>(optional item)</i>			
		<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Not applicable			

SECTION 7. EFFLUENT AND INTAKE CHARACTERISTICS (40 CFR 122.21(g)(7))

Effluent and Intake Characteristics	See the instructions to determine the pollutants and parameters you are required to monitor and, in turn, the tables you must complete. Not all applicants need to complete each table.				
	Table A. Conventional and Non-Conventional Pollutants				
	7.1	Are you requesting a waiver from NYSDEC for one or more of the Table A pollutants for any of your outfalls?			
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.3.			
	7.2	If yes, indicate the applicable outfalls below. Attach waiver request and other required information to the application.			
		Outfall Number 002	Outfall Number 008	<div style="border: 1px solid black; padding: 2px; display: inline-block;">Current SPDES Permit does not require monitoring at 002 & 008</div> <div style="border: 1px solid black; padding: 2px; display: inline-block; margin-left: 10px;">See Attachment 10</div>	
	7.3	Have you completed monitoring for all Table A pollutants at each of your outfalls for which a waiver has not been requested and attached the results to this application package?			
		<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No; a waiver request has been attached for all pollutants at all outfalls.			
	Table B. Toxic Metals, Cyanide, Total Phenols, and Organic Toxic Pollutants				
	7.4	Do any of the facility's processes that contribute wastewater fall into one or more of the primary industry categories listed in Exhibit 2C-5?			
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Item 7.8.				
7.5	Have you checked "Testing Required" for all toxic metals, cyanide, and total phenols in Section 1 of Table B?				
	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No				
7.6	List the applicable primary industry categories and check the boxes indicating the required GC/MS fraction(s) identified in Exhibit 2C-5.				
	Primary Industry Category	Required GC/MS Fraction(s) (Check applicable boxes.)			
	Steam electric power plants	<input checked="" type="checkbox"/> Volatile	<input checked="" type="checkbox"/> Acid	<input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide	
		<input type="checkbox"/> Volatile	<input type="checkbox"/> Acid	<input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide	
		<input type="checkbox"/> Volatile	<input type="checkbox"/> Acid	<input type="checkbox"/> Base/Neutral <input type="checkbox"/> Pesticide	

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Effluent and Intake Characteristics Continued	7.7	Have you checked "Testing Required" for all required pollutants in Sections 2 through 5 of Table B for each of the GC/MS fractions checked in Item 7.6? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	
	7.8	Have you checked "Believed Present" or "Believed Absent" for all pollutants listed in Sections 1 through 5 of Table B where testing is not required? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	7.9	Have you provided (1) quantitative data for those Section 1, Table B, pollutants for which you have indicated testing is required or (2) quantitative data or other required information for those Section 1, Table B, pollutants that you have indicated are "Believed Present" in your discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	7.10	Have you provided (1) quantitative data for those Sections 2 through 5, Table B, pollutants for which you have determined testing is required or (2) quantitative data or an explanation for those Sections 2 through 5, Table B, pollutants you have indicated are "Believed Present" in your discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Table C. Certain Conventional and Non-Conventional Pollutants		
	7.11	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed on Table C for all outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	7.12	Have you completed Table C by providing (1) quantitative data for those pollutants that are limited either directly or indirectly in an ELG and/or (2) quantitative data or an explanation for those pollutants for which you have indicated "Believed Present"? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Table D. Certain Hazardous Substances and Asbestos		
	7.13	Have you indicated whether pollutants are "Believed Present" or "Believed Absent" for all pollutants listed in Table D for all outfalls? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	7.14	Have you completed Table D by (1) describing the reasons the applicable pollutants are expected to be discharged and (2) by providing quantitative data, if available? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	
	Table E. 2,3,7,8-Tetrachlorodibenzo-p-Dioxin (2,3,7,8-TCDD)		
	7.15	Does the facility use or manufacture one or more of the 2,3,7,8-TCDD congeners listed in the instructions, or do you know or have reason to believe that TCDD is or may be present in the effluent? <input type="checkbox"/> Yes → Complete Table E. <input checked="" type="checkbox"/> No → SKIP to Section 8.	
7.16	Have you completed Table E by reporting <i>qualitative</i> data for TCDD? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
SECTION 8. USED OR MANUFACTURED TOXICS (40 CFR 122.21(g)(9))			
Used or Manufactured Toxics	8.1	Are any other pollutants, substances, or components of substances, not already listed in Tables A-E, used or manufactured at your facility as an intermediate or final product or byproduct? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No → SKIP to Section 9.	
	8.2	List the pollutants below.	
	1.	4.	7.
	2.	5.	8.
	3.	6.	9.

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SECTION 9. BIOLOGICAL TOXICITY TESTS (40 CFR 122.21(g)(11))

Biological Toxicity Tests	9.1	Do you have any knowledge or reason to believe that any biological test for acute or chronic toxicity has been made within the last three years on (1) any of your discharges or (2) on a receiving water in relation to your discharge? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 10.		
	9.2	Identify the tests and their purposes below.		
		Test(s)	Purpose of Test(s)	Submitted to NYSDEC?
		WET at Outfall 040 Invertebrate (C. dubia)	Acute & Chronic Toxicity to Purate Chlorite	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No
				<input type="checkbox"/> Yes <input type="checkbox"/> No

SECTION 10. CONTRACT ANALYSES (40 CFR 122.21(g)(12))

Contract Analyses	10.1	Were any of the analyses reported in Section 7 performed by a contract laboratory or consulting firm? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 11.		
	10.2	Provide information for each contract laboratory or consulting firm below.		
			Laboratory Number 1	Laboratory Number 2
		Name of laboratory/firm	Adirondack Environmental Services	York Analytical Laboratories
		ELAP Cert No.	10709	12058
		Laboratory address	314 North Pearl St Albany, NY 12207	132-02 89th AVENUE RICHMOND HILL, NY 11418
		Phone number	(518) 434-4546	(203) 325-1371
		Pollutant(s) analyzed	Remaining pollutants	EPA 1633 analysis for PFAS suite

SECTION 11. ADDITIONAL INFORMATION (40 CFR 122.21(g)(13))

Additional Information	11.1	Does your facility use, produce, store, distribute, or otherwise dispose of any significant quantity of substances listed in Tables B, C, D, E or those substances identified in Item 8.2? <input checked="" type="checkbox"/> Yes → Complete Table G. <input type="checkbox"/> No → SKIP to Item 11.2.	
	11.2	Does your facility utilize pumping stations to convey wastewaters on the site and/or in wastewater treatment? <input checked="" type="checkbox"/> Yes → Complete Table H. <input type="checkbox"/> No → SKIP to Item 11.3.	
	11.3	Has NYSDEC requested additional information? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No → SKIP to Section 12.	
	11.4	List the information requested and attach it to this application.	
		1. Simple Mixing Zone Form	3. No Exposure Certification Form

2. Consideration of Future Physical Climate Risk

4. Supplement O Form

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SECTION 12. CHECKLIST AND CERTIFICATION STATEMENT (40 CFR 122.22(a) and (d))																													
Checklist and Certification Statement	12.1	<p>In Column 1 below, mark the sections of Form NY-2C that you have completed and are submitting with your application. For each section, specify in Column 2 any attachments that you are enclosing to alert NYSDEC. Note that not all applicants are required to complete all sections or provide attachments.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 50%; text-align: center;">Column 1</th> <th style="width: 50%; text-align: center;">Column 2</th> </tr> </thead> <tbody> <tr> <td><input checked="" type="checkbox"/> Section 1: Outfall Location</td> <td><input checked="" type="checkbox"/> w/ attachments</td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 2: Line Drawing</td> <td><input checked="" type="checkbox"/> w/ line drawing <input type="checkbox"/> w/ additional attachments</td> </tr> <tr> <td><input checked="" type="checkbox"/> Section 3: Average Flows and Treatment</td> <td><input checked="" type="checkbox"/> w/ attachments <input checked="" type="checkbox"/> w/ Simple MZ Form <input checked="" type="checkbox"/> w/ Table F <input type="checkbox"/> w/ Detailed MZ Form</td> </tr> <tr> <td><input checked="" type="checkbox"/> 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	12.2	<p>Certification Statement</p> <p><i>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.</i></p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 60%;">Name (print or type first and last name) Peter Orphanos</td> <td style="width: 40%;">Official title Site Vice President</td> </tr> <tr> <td>Signature </td> <td>Date signed 5/22/2024</td> </tr> </table>		Name (print or type first and last name) Peter Orphanos	Official title Site Vice President	Signature 	Date signed 5/22/2024																						
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ATTACHMENT 5 (PAGE 1 of 3)

FORM NY-2C, PART II
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1)) &
RECEIVING WATER DESCRIPTION (6 NYCRR 750-1.7(a))
(Continued)

1.1 Provide information on each of the facility's outfalls and the receiving waters in table below

OF = Outfall; IMP = Internal Monitoring Point; EOP = End of Pipe

	IMP 07A	IMP 07B	IMP 07C
Latitude	43° 31' 18.0" N	43° 31' 14.2" N	43° 31' 20.7" N
Longitude	76° 24' 32.2" W	76° 24' 35.3" W	76° 24' 29.6" W
Receiving Water Name	Lake Ontario via Outfall 001	Lake Ontario via Outfall 020	Lake Ontario via Outfall 001
Water Index Name (WIN)	Ont (portion 11)	Ont (portion 11)	Ont (portion 11)
Waterbody Inventory/ Priority Waterbodies List (WI/PWL) Segment	0302-0041	0302-0041	0302-0041
Water Classification	A	A	A

	IMP 07D	IMP 07E	IMP 07F
Latitude	43° 31' 19.4" N	43° 31' 16.2" N	43° 31' 20.0" N
Longitude	76° 24' 32.1" W	76° 24' 25.1" W	76° 24' 33.2" W
Receiving Water Name	Lake Ontario via Outfall 001	Lake Ontario via Outfall 001	Lake Ontario via Outfall 001
Water Index Name (WIN)	Ont (portion 11)	Ont (portion 11)	Ont (portion 11)
Waterbody Inventory/ Priority Waterbodies List (WI/PWL) Segment	0302-0041	0302-0041	0302-0041
Water Classification	A	A	A

	IMP 07G	OF 008	OF 010
Latitude	43° 31' 21.5" N	43° 31' 20.4" N	43° 31' 23.1" N
Longitude	76° 24' 29.8" W	76° 24' 30.9" W	76° 24' 43.6" W
Receiving Water Name	Lake Ontario via Outfall 001	Lake Ontario	Lake Ontario
Water Index Name (WIN)	Ont (portion 11)	Ont (portion 11)	Ont (portion 11)
Waterbody Inventory/ Priority Waterbodies List (WI/PWL) Segment	0302-0041	0302-0041	0302-0041
Water Classification	A	A	A

DEC Identification Number 7-3556-00013/00001	SPDES Permit Number NY0001015	Facility Name Nine Mile Point Nuclear Station
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ATTACHMENT 5 (PAGE 2 of 3)

FORM NY-2C, PART II
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1)) &
RECEIVING WATER DESCRIPTION (6 NYCRR 750-1.7(a))
(Continued)

1.1 Provide information on each of the facility's outfalls and the receiving waters in table below

OF = Outfall; IMP = Internal Monitoring Point

	IMP 10A	IMP 011	OF 020
Latitude	43° 31' 18.9" N	43° 31' 19.7" N	43° 31' 18.7" N
Longitude	76° 24' 38.7" W	76° 24' 36.9" W	76° 24' 44.3" W
Receiving Water Name	Lake Ontario	Lake Ontario	Lake Ontario
Water Index Name (WIN)	Ont (portion 11)	Ont (portion 11)	Ont (portion 11)
Waterbody Inventory/ Priority Waterbodies List (WI/PWL) Segment	0302-0041	0302-0041	0302-0041
Water Classification	A	A	A

	OF 021	IMP 023	IMP 024
Latitude	43° 31' 16.3" N	43° 31' 7.5" N	43° 31' 16.4" N
Longitude	76° 24' 39.1" W	76° 24' 39.9" W	76° 24' 33.7" W
Receiving Water Name	Lake Ontario	Ditch (U1SW), then to Lake Ontario	Lake Ontario via Outfall 020
Water Index Name (WIN)	Ont (portion 11)	Ont (portion 11)	Ont (portion 11)
Waterbody Inventory/ Priority Waterbodies List (WI/PWL) Segment	0302-0041	0302-0041	0302-0041
Water Classification	A	A	A

	IMP 025	IMP 026	IMP 030
Latitude	43° 31' 8.4" N	43° 31' 20.2" N	43° 31' 17.2" N
Longitude	76° 24' 26.6" W	76° 24' 31.9" W	76° 24' 42.5" W
Receiving Water Name	Ditch (U1SW), then to Lake Ontario	Lake Ontario via Outfall 030	Ditch (U1SW), then to Lake Ontario
Water Index Name (WIN)	Ont (portion 11)	Ont (portion 11)	Ont (portion 11)
Waterbody Inventory/ Priority Waterbodies List (WI/PWL) Segment	0302-0041	0302-0041	0302-0041
Water Classification	A	A	A

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ATTACHMENT 5 (PAGE 3 of 3)

FORM NY-2C, PART II
SECTION 1. OUTFALL LOCATION (40 CFR 122.21(g)(1)) &
RECEIVING WATER DESCRIPTION (6 NYCRR 750-1.7(a))

1.1 Provide information on each of the facility's outfalls and the receiving waters in table below

OF = Outfall; IMP = Internal Monitoring Point

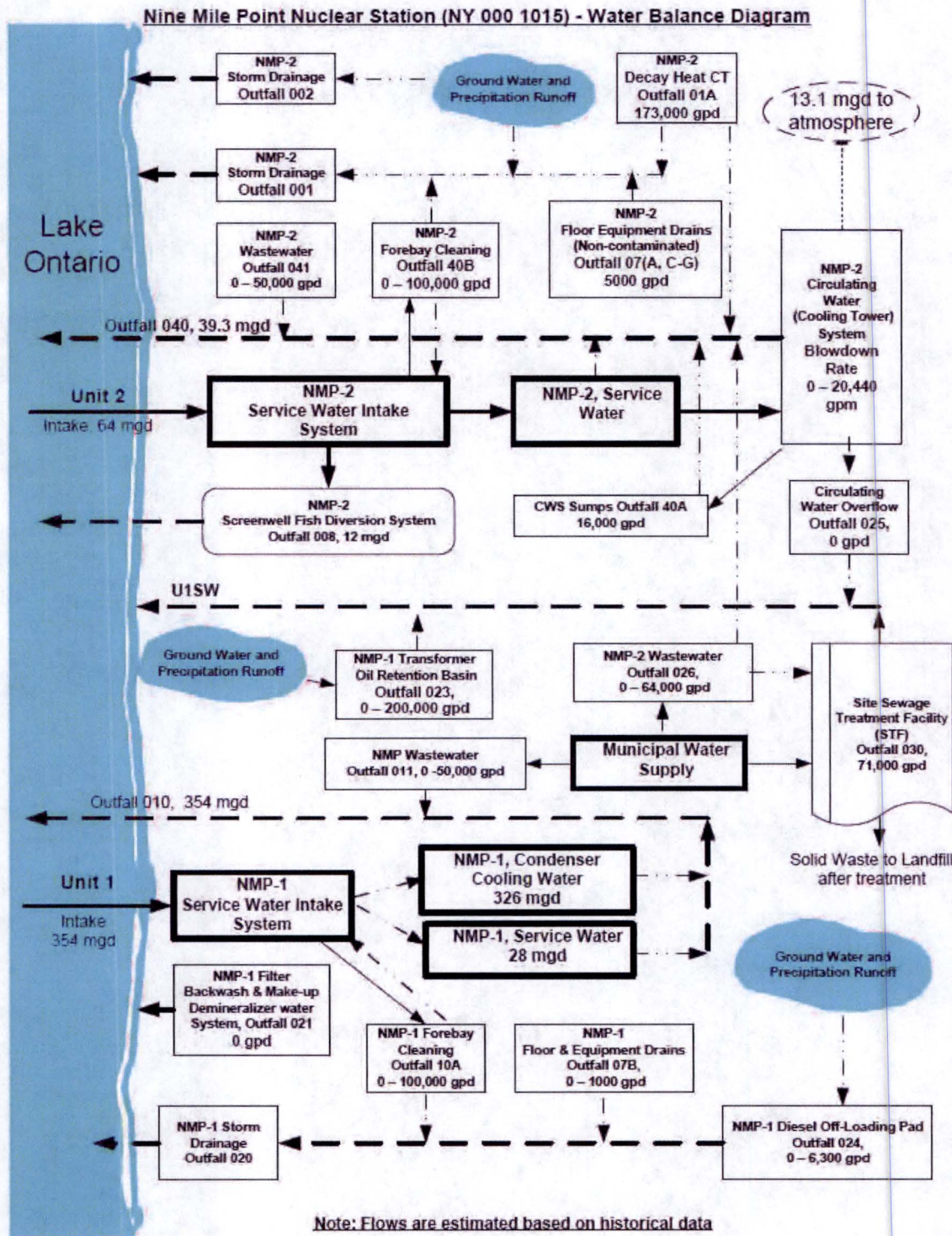
	OF 030/023	IMP 040	OF 040
Latitude	43° 31' 18.5" N	43° 31' 20.3" N	43° 31' 31.8" N
Longitude	76° 24' 46.8" W	76° 24' 31.4" W	76° 24' 34.6" W
Receiving Water Name	Lake Ontario	Lake Ontario	Lake Ontario
Water Index Name (WIN)	Ont (portion 11)	Ont (portion 11)	Ont (portion 11)
Waterbody Inventory/ Priority Waterbodies List (WI/PWL) Segment	0302-0041	0302-0041	0302-0041
Water Classification	A	A	A

	IMP 40A	IMP 40B	IMP 041
Latitude	43° 31' 19.5" N	43° 31' 18.9" N	43° 31' 20.3" N
Longitude	76° 24' 32.2" W	76° 24' 38.7" W	76° 24' 31.4" W
Receiving Water Name	Lake Ontario via Outfall 040	Lake Ontario via Outfalls 001 or 040	Lake Ontario via Outfall 040
Water Index Name (WIN)	Ont (portion 11)	Ont (portion 11)	Ont (portion 11)
Waterbody Inventory/ Priority Waterbodies List (WI/PWL) Segment	0302-0041	0302-0041	0302-0041
Water Classification	A	A	A

DEC Identification Number 7-3556-00013/00001	SPDES Permit Number NY0001015	Facility Name Nine Mile Point Nuclear Station
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ATTACHMENT 6 (PAGE 1 of 2)

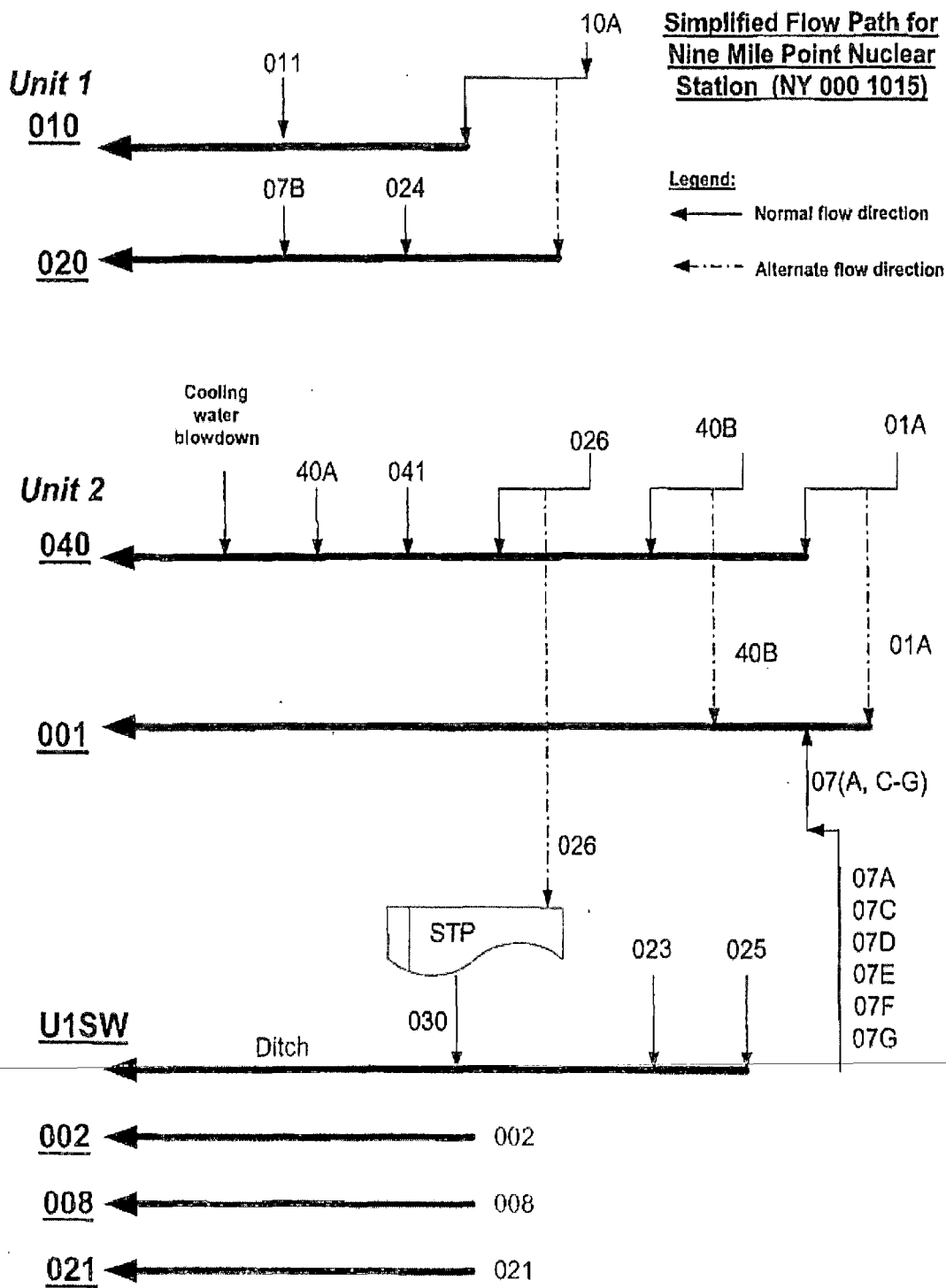
FORM NY-2C, PART II
SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))
(Continued)



DEC Identification Number 7-3556-00013/00001	SPDES Permit Number NY0001015	Facility Name Nine Mile Point Nuclear Station
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ATTACHMENT 6 (PAGE 2 of 2)

FORM NY-2C, PART II
SECTION 2. LINE DRAWING (40 CFR 122.21(g)(2))



DEC Identification Number 7-3556-00013/00001	SPDES Permit Number NY0001015	Facility Name Nine Mile Point Nuclear Station
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ATTACHMENT 7

FORM NY-2C, PART II

SECTION 3. AVERAGE FLOWS AND TREATMENT (40 CFR 122.21(g)(3))

3.1 For each outfall identified under Item 1.1, provide average flow and treatment information. Add additional sheets if necessary.

Outfall Number 030		
Operations Contributing to Flow		
Operation	Average Flow	Maximum Flow
Kitchen, cafeteria, bathrooms	0.04 MGD	0.11 MGD
Treatment Units		
Description (include size, flow rate through each treatment unit, retention time, etc.)	Code from Table 2C-1	Final Disposal of Solid or Liquid Wastes Other Than by Discharge
Equalization		
Grit removal	1-M	
Aeration + Activated sludge	1-O + 3-A	
Clarification	1-U	
Disinfection	2-F	
Dechlorination	2-E	
Neutralization	2-K	
Drying beds	5-H	Landfill

Note: There is no treatment needed or provided prior to discharge from other outfalls, except for pH neutralization as-needed.

DEC Identification Number 7-3556-00013/00001	SPDES Permit Number NY0001015	Facility Name Nine Mile Point Nuclear Station
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ATTACHMENT 8

FORM NY-2C, PART II

SECTION 4. INTERMITTENT FLOWS (40 CFR 122.21(g)(4))

4.2 Provide information on intermittent or seasonal flows for each applicable outfall. Attach additional pages, if necessary.

Outfall Number	Operation	Frequency		Flow Rate		Duration ¹
		Average Days/Week	Average Months/Year	Long-Term Average	Maximum Daily	
07A	Summer Seasonal Discharge Unit 2 Floor & Equipment Drains		4	1096 GPD	3000 GPD	120 days
07B	Summer Seasonal Discharge Unit 1 Floor & Equipment Drains		3	933 GPD	1000 GPD	90 days
10A	Unit #1 Forebay Cleaning Basins (IMP)		0.2	250,576 GPD	434,228 GPD	6-7 days
023	Unit #1 Oil Spill Retention Basin, Batch Discharge ²		0.1	55,000 GPD	87,100 GPD	1 day (Batch)
024	Unit #1 Diesel Off Loading Pad Drainage (IMP), Batch Discharge ²		0.05	8000 GPD	8700 GPD	1 day (Batch)
026	Unit #2 Resin Regeneration, Demineralized Test Water, and Reverse Osmosis Wastewater ²	2	12	31,524 GPD	63,047 GPD	1 day (Batch)
40B	Unit #2 Forebay Cleaning Basins (IMP), periodic cleaning		1-2	110,048 GPD	262,496 GPD	3-5 days

¹ Duration is best average estimate

² Batch discharges only

No discharges were performed at Outfalls; 01A, 07F, 07G, 011, 021, 025, and 041 during the required monitoring period for this submittal.

DEC Identification Number
7-3556-00013/00001

SPDES Permit Number
NY0001015

Facility Name
Nine Mile Point Nuclear Station

Form Approved: 5/12/2023

TABLE G. INDUSTRIAL CHEMICAL SURVEY

Substance Name	CAS Number	Purpose of Use Code	Average Annual Usage	Amount On Hand	Presence in Discharge	Discharge Outfall
<p>Complete this table for all substances that have been used, produced, stored, distributed or otherwise disposed of in significant quantity <u>AND</u> for any quantity of BCCs, chemicals for which FDA fish flesh limits exist, or restricted pesticide products listed in Part 326, Section 2 of the ECL. Restricted pesticides also include those products whose labeling bears the statement "Restricted Use Pesticide." Do not include chemicals that are present as <i>de minimus</i> concentrations as listed in the SDS for that substance.</p> <p>For any substance listed that is used in a manner which could cause them to come into contact with a wastewater that is ultimately discharged to the waters of the State through an outfall controlled by this permit application, identify it as "Present" and the Outfall(s) by which it may be discharged. Sampling results for these pollutants should also be included with Tables B-E.</p>						
<input type="checkbox"/> A separate, but equivalent table has been attached as part of this application.						
EVAC	66330-88-9	WTC - Water Treatment	5,100 Lbs	Lbs	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present	010
Sodium Bisulfite	7631-90-5	WTC - Water Treatment	70,300 Lbs	Gal	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present	010
Super Chlor	7778-54-3	WTC - Water Treatment	87,900 Lbs	Gal	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present	010
3D TRASAR 3DT121		WTC - Water Treatment	175,500 Lbs	Gal	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present	010
EVAC	66330-88-9	WTC - Water Treatment	6,300 Lbs	Gal	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present	040
LiquiBrom 4000	7647-15-6	WTC - Water Treatment	19,200 Lbs	Gal	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present	040
SURE-COOL 1393	2809-21-4	WTC - Water Treatment	6,000 Lbs	Gal	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present	040
Super Chlor	7778-54-3	WTC - Water Treatment	387,500 Lbs	Gal	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present	040
ControlBrom CB70	7647-15-6	WTC - Water Treatment	56,600 Lbs	Gal	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present	040
Sulfuric Acid	7664-93-9	WTC - Water Treatment	630,000 Lbs	Gal	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present	040
Sodium Bisulfite	7631-90-5	WTC - Water Treatment	29,300 Lbs	Gal	<input checked="" type="checkbox"/> Present <input type="checkbox"/> Not Present	040
3D TRASAR 3DT121		WTC - Water Treatment	20,700 Lbs	Gal	<input type="checkbox"/> Present <input type="checkbox"/> Not Present	040
				Gal	<input type="checkbox"/> Present <input type="checkbox"/> Not Present	
				Gal	<input type="checkbox"/> Present <input type="checkbox"/> Not Present	

DEC Identification Number 7-3556-00013/00001	SPDES Permit Number NY0001015	Facility Name Nine Mile Point Nuclear Station
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Form Approved: 5/12/2023

TABLE H. FACILITY & COLLECTION SYSTEM RESILIENCY

Pump Station Name	PS Owner	General Location	Latitude (DMS)	Longitude (DMS)	Floor Elevation (ft, NAVD88)
Complete this table for all pump stations that exist at the wastewater treatment facility and within the collection system. Identify the name of the pump station, the owner of the pump station (if different than the SPDES permittee), the general location of the pump station (e.g. intersection of Green St. & Water St.), the latitude and longitude of the pump station in degrees-minutes-seconds (DMS) format, and the elevation in feet of the pump station floor (per the NAVD88 datum).					
<input type="checkbox"/> The wastewater treatment facility and collection system do not contain any pump stations.					
Cafeteria		Cafeteria - Outdoors, West c	43 ° 31 ' 16.61 "	76 ° 24 ' 32.81 "	260.30
L-Shaped Building		ern Quadrant of L-Shaped Bui	43 ° 31 ' 16.51 "	76 ° 24 ' 20.11 "	260.30
Nuclear Learning Center		Nuclear Learning Center- Inc	43 ° 31 ' 13.51 "	76 ° 25 ' 1.37 "	260.30
Operations Building		lain Level of OPS Building, So	43 ° 31 ' 13.31 "	76 ° 24 ' 23.21 "	250.00
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	
			° ' "	° ' "	

ATTACHMENT 9

TABLE F. WATER TREATMENT CHEMICAL LISTING

Affected Outfall(s)	Dosage (lbs/day)		WTC Manufacturer and Product Name	WTC Function	Approval Date
	Average	Max			
10	1,180.0	1,262.0	Nalco Company - Nalco 73551	Dispersant and Detergent	28-May-10
	1,187.0	2,690.0	Nalco Company EVAC	Microorganism control chemical at Unit 1 condenser cooling water	28-Apr-10
	681.0	2,033.0	Slack Company - Sodium Hypochlorite (Superchlor)	Chlorination at Unit 1 circulating water	28-May-10
	681.0	2,033.0	Surpass Chemical Company Inc.	Chlorination at Unit 1 Circulating Water (CWS)	15-Jul-22
	420.0	1,395.0	Slack Company - Sodium Bisulfite Solution	Water Treatment (reduce hypobromite and hypochlorite to its salt prior to discharge to Outfall)	28-May-10
	1,859.0	2,030.0	Nalco Company - 3DT121	Cooling Water Dispersant	28-May-10
	500.0	1,000.0	Sani-Chips (Wood Flour)	Condenser Maintenance	16-Mar-18
	79.8	238.0	Nalco Company - Acti-Brom 1338	Biodispersant at Unit 1 condenser	28-May-10
10A	121.2	254.5	Hild & Associates - Bio-Star (2% solution)	Flocculent for Forebay Cleaning at Unit 1	22-Jan-21
23		20.2		pH control at Unit 1 oil spill retention basin	
26	2.5	4.9	Slack Company - Caustic 25%	RO Membran cleaning	4-Aug-17
	1.9	3.7	Slack Company - Sodium Bisulfite Solution	Dechlorination at Unit 2 RO Unit	4-Aug-17
	1.9	3.7	SUEZ WTS USA - HYPERPERSE MDC 150	Reverse Osmosis Antiscalant	4-Aug-17
40	1,983.0	3,363.0	Nalco Company EVAC	Microorganism control chemical at Unit 1 condenser cooling water	16-May-23
	6,000.0	11,000.0	PVC Chemical Company - Sulfuric Acid	pH control at Unit 2 Cooling Tower (CWS)	29-Apr-10
	1,097.0	3,290.0	Slack Company - Sodium Hypochlorite (Superchlor)	Chlorination at Unit 2 Cooling Tower (CWS)	7-May-10
	449.0	630.0	Surpass Chemical Company Inc.	Chlorination at Unit 2 Service Water (SWP)	15-Jul-22
	446.0	630.0	Surpass Chemical Company Inc.	Chlorination at Unit 2 Cooling Tower (CWS)	15-Jul-22
	339.0	630.0	Slack Company - Sodium Hypochlorite (Superchlor)	Chlorination at Unit 2 Service Water (SWP)	30-May-08
	400.0	1,200.0	Sani-Chips (Wood Flour)	Condenser Maintenance	16-Mar-18
	215.0	394.0	BIO-LAB, Inc - LiquiBrom 4000	Chlorine enhancer at Unit 2 Cooling Tower (SWP)	3-Nov-21
	165.0	247.5	Nalco Company - ControlBrom CB70	Chlorine enhancer at Unit 2 Cooling Tower (CWS)	7-May-10
	209.5	493.8	Nalco Company - ControlBrom CB70	Chlorine enhancer at Unit 2 Cooling Tower (CWS)	24-Jun-16
	360.7	901.0	Nalco Company - 3DT121	Cooling Water Dispersant/Scale Inhibitor(CWS)	7-May-10
	108.2	270.3	Nalco Company - SURE-COOL 1393	Scale Inhibitor at Unit 2 (CWS)	3-Sep-10
	264.0	317.0	Nalco 73551	Dispersant and Detergent	3-Nov-21
	24.0	95.0	GE Water & Process Technologies - Control IS3010	Dechlorination at Unit 2 (CWS)	7-May-10
	2,000.0	3,000.0	GE Water & Process Technologies - AZ8104	Copper Inhibitor at Unit 2 Cooling Tower (CWS)	7-May-10
40B (001 or 040)	295.0	566.0	Slack Company - Sodium Bisulfite Solution	Water Treatment (reduce hypobromite and hypochlorite to its salt prior to discharge to Outfall) (SWP)	30-May-08
	4.0	6.0	Hild & Associates - Bio-Star (solid)	Flocculent for Forebay Cleaning at Unit 2	11-May-09
	58.6	117.2	Hild & Associates - Bio-Star (2% solution)	Flocculent for Forebay Cleaning at Unit 2 (Outfall 040)	23-May-19
	58.6	71.6	Hild & Associates - Bio-Star (2% solution)	Flocculent for Forebay Cleaning at Unit 2 (Outfall 001)	23-May-19

Appendix B

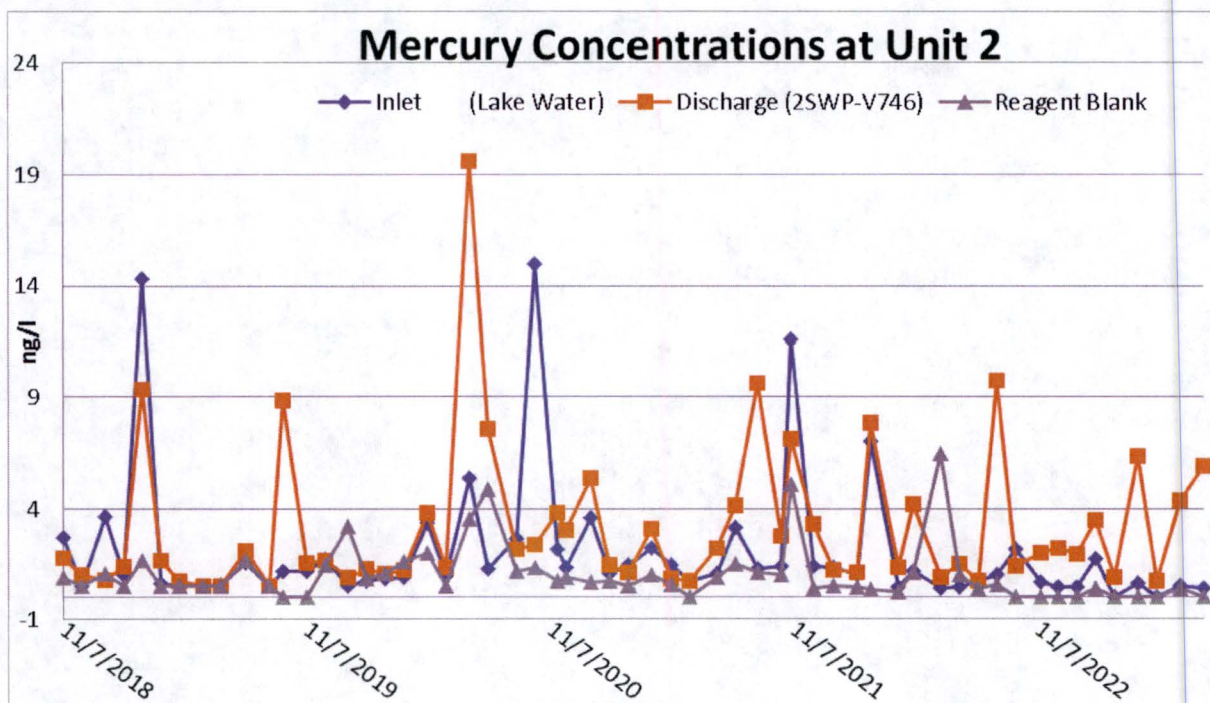
NMPNS Additional Permit Modification Requests

DEC Identification Number 7-3556-00013/00001	SPDES Permit Number NY0001015	Facility Name Nine Mile Point Nuclear Station
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Appendix B – Attachment 1 – Request to Modify Mercury Minimization Plan to Reduce the Sampling Frequency at Outfall 040

The state-wide water quality-based effluent limit for mercury in New York is 0.7 ng/L. In accordance with NY 000-1015, Mercury Minimization Program Requirements – Outfall 040, Nine Mile Point has developed, implemented, and maintained a Mercury Minimization Program (MMP) for Outfall 040. NMPNS investigations of trending data have revealed that the usage of sulfuric acid WTC were a contributing source of mercury concentrations above the lower-level detection limit in Outfall 040 and have since transitioned to the usage of sulfuric acid WTC with lower mercury content. Mercury content in sulfuric acid has been reduced from 2 parts per million (ppm) to 0.01 ppm. Compare the attached Slack Chemical Company Inc. Technical Data Sheet for Sulfuric Acid (which has 2 ppm mercury) to the attached PVS Chemical Solutions Product Specification Sheet (which has 0.01 ppm mercury).

The below figure shows the mercury concentration at the Unit 2 intake and Outfall 040. Over the MMP monitoring periods of 2018-2023, low-level mercury concentrations in the discharge have consistently decreased, and have consistently been in compliance with the 50 ng/L daily maximum limit stated in the SPDES Permit.



NMPNS is presently required to sample and analyze for mercury once per month. As noted in Section 3(d) – MMP Modification in the Mercury Minimization Program, NMPNS respectfully requests a reduction of the sampling/analysis frequency at Outfall 040 from once-per-month to once-per-year.



PVS Chemical Solutions, INC

Quality Control Laboratory Product Specifications

Sulfuric Acid 93% High quality / Electrolytic grade

<u>Analyte</u>	<u>Specification</u>	<u>Typical Analysis</u>
Appearance	Clear, colorless oily liquid	Clear, colorless oily liquid
H ₂ SO ₄	93.20% minimum	93.20 – 94.50%
Degrees Baumé @60 F	66.00° minimum	66.02 – 66.15 °
Iron	40 ppm maximum	12 ppm
Sulfur Dioxide	40 ppm maximum	20 ppm
Transmittance @ 435 nm	80% minimum	95%
Mercury, ppm Hg	0.01 max.	< 0.01
Nitrates, ppm NO ₃	5 max.	< 3.0
Arsenic, ppm As	1 max.	< 0.2
Chlorides, ppm Cl	10 max.	< 0.4
Antimony, ppm Sb	1 max.	< 0.4
Manganese, ppm Mn	0.2 max.	< 0.1
Selenium, ppm Se	20 max.	< 0.4
Zinc, ppm Zn	40 max.	< 0.2
Ammonium, ppm NH ₄	10 max.	< 0.8
Nickel, ppm Ni	1 max.	< 0.2
Copper, ppm Cu	50 max.	< 0.4
Fixed residue, ppm	300 max.	< 300
Platinum, ppm Pt	Pass	Pass
Organic matter	Pass	Pass

Analytes in **bold** are listed on a standard certificate of analysis. Other analytes listed can be included on the certificate of analysis if requested.

Acceptance Signatures

Customer

PVS Chemical Solutions, Inc.

Name:

Name: Dale Price

Title:

Title: Technical Manager

Date:

Date:

Contact Information:

Contact Information: 773-913-7718

12260 S. Carondelet Ave., Chicago, IL 60633

dprice@pvschemicals.com



Technical Data

Sulfuric Acid, 93%



ANALYSIS

TYPICAL RESULTS

Assay, wt% H ₂ SO ₄	93.2 – 95.0
Color, APHA	70 max
Clarity, % @ 500 nm	70 min
Chlorides, ppm Cl	10 max
Iron, ppm Fe	50 max
Mercury, ppm Hg	2 max
Nitrates, ppm NO ₃	20 max
Sulfur Dioxide, ppm SO ₂	50 max
Specific Gravity @ 16°C	1.825 min

NOTICE: The information present herein, while not guaranteed, is true and accurate to the best of our knowledge. No warranty or guarantee, expressed or implied, is made regarding performance, stability or otherwise. While our technical personnel will respond to any questions regarding safe handling and use procedures, safe handling and use remains the responsibility of the customer. No suggestions for use are intended as, and nothing herein shall be construed as, a recommendation to infringe any existing patents or to violate any applicable law.

6/12/09

DEC Identification Number 7-3556-00013/00001	SPDES Permit Number NY0001015	Facility Name Nine Mile Point Nuclear Station
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Appendix B – Attachment 2 – Requested Modification to Footnote 6

Footnote 6 of the SPDES Permit NY-000 1015 specifies conditions under which temperature limits may be exceeded. Nine Mile Point Nuclear Station respectfully requests that the limitation exceedance conditions are modified to apply on a calendar year basis (January 1 to December 31) rather than an operating-year basis. The requested language modification is provided below.

6. The intake temperature for this designated outfall shall be considered that temperature existing after intake waters have been tempered. The Intake - Discharge Temperature Difference limit may be exceeded during periods when plant safety is at issue, during periods when the circulating water system (CWS) is experiencing an emergency situation that is outside the normal operating envelop or during routine maintenance of the system, such as, but not limited to, the following situations: debris blockage of a CWS component , an emergency steam release, pump breakdown, etc. In the event of such an emergency/breakdown, the permittee shall take corrective action to bring the temperature parameter within the permit limit as soon as possible. The permittee, whenever possible, should take action to avoid temperature parameter exceedance from June through September.

In the event that the facility is experiencing inlet icing conditions during the winter season, the Intake - Discharge Temperature Difference limit (ΔT) may be exceeded by 35%, or 12.25 ° F, for no more than one hour during each reverse flow or return to normal flow operation. The facility may exceed the 35% criteria for a period of fifteen (15) minutes when the facility returns to normal flow configuration. This momentary increase during return to normal flow configuration is acceptable.

The permittee shall indicate in the Discharge Monitoring Report the reason for operating outside of the permit limit, and the dates and times of the associated event. In no case shall the permit limitation be exceeded for more than 5% of the operating time during the ~~operating~~ calendar year.