

SPDES — DISCHARGE MONITORING REPORT



SEE THE REVERSE SIDE OF PART 4 FOR INSTRUCTIONS

PARAMETER/UNITS	OUT FALL	MONITORING LOCATION	REPORT SECTION				SAMPLE CHARACTERISTICS		
			LIMIT	MINIMUM	AVERAGE	MAXIMUM	# EX.	TYPE	FREQUENCY
TEMPERATURE DEG C	001	EFFLUENT VALUE 0100010040101	LIMIT	*****	*****	44.5000		METERED	CONTINUOUS
			REPORTED VALUE	*****	*****	23.44	0	METERED	CONTINUOUS
TEMPERATURE - DIFF DEG C	001	EFFLUENT VALUE 0200016040101	LIMIT	*****	*****	18.0000		METERED	CONTINUOUS
			REPORTED VALUE	*****	*****	16.06	0	METERED	CONTINUOUS
TURBIDITY NTU	001	EFFLUENT VALUE 0300400120101	LIMIT	6.5000	*****	8.5000		GRAB	2 PER WEEK
			REPORTED VALUE	8.0	*****	8.2	0	GRAB	2/WEEK
SUSPENDED SOLIDS MG/L	012	NET VALUE 0400400121204	LIMIT	6.0000	*****	9.0000		GRAB	WEEKLY
			REPORTED VALUE	7.2	*****	7.4	0	GRAB	WEEKLY
UNIFORM-FECAL COLIFORMS/100ML	012	NET VALUE 0574055001204	LIMIT	*****	200.0000	400.0000		GRAB	MONTHLY
			REPORTED VALUE	*****	N/A	<2.2	0	GRAB	MONTHLY
SUSPENDED SOLIDS MG/L	012	NET VALUE 0680154011204	LIMIT	*****	30.0000	45.0000		24 HR COMP	MONTHLY
			REPORTED VALUE	*****	N/A	1.0	0	24 HR COMP	MONTHLY
SUSPENDED SOLIDS MG/L	012	NET VALUE 0785001011204	LIMIT	*****	30.0000	45.0000		24 HR COMP	MONTHLY
			REPORTED VALUE	*****	N/A	8.0	0	24 HR COMP	MONTHLY
PH AT	001	NET VALUE 0899908360104	LIMIT	*****	*****	5.7200		METERED	CONTINUOUS
			REPORTED VALUE	*****	*****	5.498	0	METERED	CONTINUOUS
FLOW VELOCITY FT/SEC	002	PRE-INFLUENT SCOUR 0999909240203001	LIMIT	*****	*****	1.4000		METERED	CONTINUOUS
			REPORTED VALUE	*****	*****	1.40	0	METERED	CONTINUOUS
			LIMIT						
			REPORTED VALUE						

I hereby affirm under penalty of perjury that information provided on this form is true to the best of my knowledge and belief. False statements made herein are punishable as a Class A misdemeanor pursuant to Section 210.45 of the Penal Law.

WRITTEN NAME AND TITLE: Corbin A. McNeill, Jr., Resident Manager

SIGNATURE: *Corbin A. McNeill, Jr.*

DATE: 5/6/84

1 PERMITTEE  
 2 AGENT

POWER AUTHORITY OF N Y S  
 JAMES A FITZPATRICK NUCLEAR POWER PLANT  
 BOX 41  
 LYCOMING NY 13093

NY0020109  
 04 MEI 02  
 BS 03 SUB 03 SN 03117

PART 1—ENCON COPY

Attachment to JAF-84-03117

NEW YORK POWER AUTHORITY  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

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MONTH OF APRIL 1984  
SPDES REPORT

The reported value for net rate of heat addition to the receiving water was calculated using the following equation:

$$(CTP) - MWe (net) = W.H.$$

Where:

CTP = Reactor Core Thermal Power in Btu/hr

MWe = Net Electrical Generation in Btu/hr

W.H. = Waste Heat Addition to the Receiving Water in Btu/hr

NEW YORK POWER AUTHORITY  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

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MONTH OF APRIL 1984  
SPDES REPORT

SPDES NY0020109 NONCOMPLIANCE WITH CONDITIONS

A. DESCRIPTION

On Wednesday, May 9, 1984 at approximately 9:00 A.M., 70 gallons of Ethylene Glycol Solution (12% by weight) was discharged into Lake Ontario via the plant's west storm drainage system.

B. RESULTS

1. Specific gravity of Ethylene Glycol Solution sampled = 1.0140 @ 20°C
2. Concentration of 12% by weight Ethylene Glycol = 122.6 g/l
3. Fraction of 70 gallon solution which constitutes 100% Ethylene Glycol = 8.5 gallons
4. Flow of sump pump = 100 gpm
5. Time for sump pump to discharge 70 gallons of solution into west storm sewer - 42 seconds
6. Flow of west storm sewer on May 9, 1984 = estimated 50 gpm
7. Amount of water passing discharge point (from sump pump) in 42 seconds = 35 gallons
8. Approximate dilution ratio of 100% Ethylene Glycol (8.5 gal/35 gal water) = 1:4
9. Concentration of Ethylene Glycol discharged to Lake Ontario = approximately 30.65 g/l.

C. PERIOD OF NONCOMPLIANCE

It took approximately 10 minutes for the 70 gallons of Ethylene Glycol Solution (12% by weight) to reach Lake Ontario. This event was a one-time batch release.

NEW YORK POWER AUTHORITY  
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

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SPDES NY0020109 NONCOMPLIANCE WITH CONDITIONS

D. CAUSE OF NONCOMPLIANCE

A calibration of the temperature sensor on a fan cooling unit was being performed by an Instrument and Control Technician. An incorrect technical drawing indicated a drywell surrounding the temperature sensor. The technician proceeded to remove the temperature sensor, and the contents of the cooling unit (Ethylene Glycol under pressure) leaked out under approximately 60 psi pressure. The Ethylene Glycol then entered the floor drain which empties into a sump that is pumped to the west storm sewer which discharges into Lake Ontario.

E. CORRECTIVE ACTION

A critique of this event was held by the Operations, Instrument and Control, and the Chemistry and Environmental Departments following the event.

The temperature sensor has since been marked with an equipment tag stating that there is no drywell containment surrounding the probe, to provide guidance when future calibrations are performed. Similar equipment will be reviewed and their technical drawings verified so that any future events of the nature can be avoided.

James A. FitzPatrick  
Nuclear Power Plant  
P.O. Box 41  
Lycoming, New York 13093  
315 342.3840



**New York Power  
Authority**

**Corbin McNeill**  
Resident Manager

July 24, 1984  
JAFF-84-0717

United States Regulatory Commission  
Director of Nuclear Reactor Regulation  
Washington, D.C. 20555

ATT: Harold R. Denton  
Director, Office of  
Nuclear Reactor Regulation

SUBJECT: SPDES/NPDES PERMIT NON-COMPLIANCE WITH CONDITIONS

REFERENCE: JAFP-84-0511.

Gentlemen:

Attached please find a copy of the James A. FitzPatrick monthly SPDES report, which includes a description of the non-compliance with conditions. A copy of this report is being supplied to you in accordance with your letter dated March 11, 1983, requiring notifications of your office concerning SPDES/NPDES permit violations.

If you have any further questions concerning this matter, please do not hesitate to contact us.

Very truly yours,

A handwritten signature in cursive script, appearing to read 'Corbin A. McNeill, Jr.', with a long horizontal flourish extending to the right.

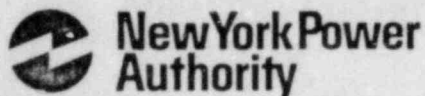
CORBIN A. MCNEILL, JR.

CAM/JS/mam  
Attachment

CC: B. Gorman  
J. Solini  
File  
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James A. FitzPatrick  
Nuclear Power Plant  
P.O. Box 41  
Lycoming, New York 13093  
315 342.3840



Corbin A. McNeill, Jr.  
Resident Manager

May 17, 1984  
JAFP-84-0511

Bureau of Wastewater Facilities Operations  
Division of Water  
50 Wolf Road - Room 320  
Albany, NY 12233-0001

SUBJECT: JAMES A. FITZPATRICK NUCLEAR POWER PLANT  
SPDES REPORT

Gentlemen:

Enclosed please find data relating to the James A. Fitz-Patrick Nuclear Power Plant State Pollutant Discharge Elimination System Monitoring Report for the month of April 1984.

If there are any questions regarding the attached, please do not hesitate to contact us.

Very truly yours,

*by dir. R. McNeill*  
CORBIN A. McNEILL, JR.  
RESIDENT MANAGER

CAM:JAS:jaa  
Attachments (4 pp)

CC: T. E. Murley (NRC/IE-I)  
D. Barolo (NYDEC)  
K. Delprete (NYDEC)  
R. Baker (EPA/Region 2)  
J. Blake (NYPA/WPO)  
J. P. Bayne (NYPA/WPO)  
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