

NEW YORK POWER AUTHORITY
JAMES A. FITZPATRICK NUCLEAR POWER PLANT

MONTH OF DECEMBER 1985
SPDES REPORT

SPDES NY0020109 / NONCOMPLIANCE WITH CONDITIONS

A. Description - During the month of December, 1985, the pH range of the Auxiliary Boiler Oil/Water Separator (002) discharge was exceeded for both required samples taken during December, 1985.

B. Results

1. Amount of discharge = estimated 23,000 gal for 31 day period
2. Discharge rate = <0.5 gpm
3. Range of pH discharge: low = 3.95
high = 5.45
4. pH range limit for discharge (002) = 6.0 - 9.0
5. pH of West Storm Drain discharge = 7.5

~~C.~~ Period of Noncompliance

1. Period of Noncompliance (Probable) = 31 days

D. Cause of Noncompliance

Flow from the Oil/Water Separator (002) has either been nonexistent, or very low (<1.0 gpm). Because of this, no mixing has occurred in the separator, and most likely this has caused a buildup of boiler soot on the bottom. The small amount of sulphur contained in the soot has probably started to leach out turning the contents acidic. The presence of sulphur was confirmed by Ion Chromatography.

E. Corrective Action

A Culligan soft lime pH treatment system for the Oil/Water Separator (002) has been ordered and is expected to be operational within two weeks (rush order). Until the pH treatment arrives and is put into operation, the effluent from discharge (002) is being temporarily routed to Radwaste via a sump pump for processing thus terminating the release on January 20, 1986.

NOTE:

pH samples from the West Storm Drain (which discharges directly into Lake Ontario) indicate that there was no environmental impact from the discharge from the Oil/Water Separator (002), as indicated by the measured pH of 7.5 for the West Storm Drain samples. The effluent of the Oil/Water Separator (002) drains directly into the West Storm Drain which in turn discharges into Lake Ontario.

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1. The total flow for the Sewage Effluent (012) exceeded its 0.0020 MGD guideline for the month of December, 1985. This excursion is not in violation of the permit condition based on the following stipulation which is part of the James A. FitzPatrick S.P.D.E.S. permit (p. 5, Permit No. NY0020109):

"(5) If flow exceeds 2000 GPD, then an explanation for this increased flow shall be attached to the DMR."

In compliance with the above stipulation, the following explanation is given. The present JAF sewage treatment system was not designed to handle the number of personnel currently onsite. To rectify this situation, a new sewage treatment plant is being designed and has a tentative date for completion of November, 1986.

2. The effluent limits for surveillance testing (outfall 001-f) have been deleted since issuance of this final permit (Reference Document, NYSDEC "Notice of Complete Application" dated December 11, 1985).
3. The effluent limitations for Clarifier Blowdown (outfall 001-a) Anthracite Filter Backwash (outfall 001-b), and Detergents Wastes (outfall 001-c) have been suspended temporarily pending completion of compliance schedules and engineering reviews (Reference Document, Consent Order Case No. R7-0034-85-7, dated August 5, 1985).
4. The reported oil and grease value for the Discharge Canal (001) is a net value. This value was calculated from the Discharge Canal value of 19.3 mg/l minus the Inlet Canal value of 18.1 mg/l. This calculation results in a net oil and grease concentration for the Discharge Canal of 1.2 mg/l. Both the Inlet Canal and Discharge Canal were sampled on approximately the same date (12/12/85) and time.
5. The pH range for the Low Conductivity Waste Sample Tank (001-e) exceeded its 6.0 - 9.0 pH range once during the month of December, 1985. This excursion is not in violation of the permit condition based on the following stipulation which is part of the James A. FitzPatrick S.P.D.E.S. permit (p. 4, Permit No. NY0020109):
 - "(e) If conductivity is equal to or less than 10 μ mhos/cm, then the pH limit is 4.0 - 9.0 (range). Monitoring is only required when pH range is exceeded."

In compliance with the above stipulation, the following data is given:

<u>Date</u>	<u>pH</u>	<u>Conductivity</u>	<u>pH Range</u>
12/13/85	5.54	0.866 μ mhos/cm	4.0 - 9.0

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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

91-15-4 (11/80)

REGION 7	COUNTY Saratoga	DATE PRODUCED 01-02-86	PAGE 1 of 4
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES — DISCHARGE MONITORING REPORT

SEE THE REVERSE SIDE OF PART 4 FOR INSTRUCTIONS



PARAMETER/UNITS	OUT FALL	MONITORING LOCATION	REPORT SECTION				# EX.	SAMPLE CHARACTERISTICS	
			LIMIT	MINIMUM	AVERAGE	MAXIMUM		TYPE	FREQUENCY
TEMPERATURE DEG C	001	EFFLUENT VALUE	---	---	---	44.500	---	METERED	CONTINUOUS
TEMPERATURE - DIFF DEG C	001	EFFLUENT VALUE	---	---	---	24.61	0	METERED	CONTINUOUS
PH SU	001	EFFLUENT VALUE	---	---	---	18.000	---	METERED	CONTINUOUS
HEAT BIL BTU/H	001	NET VALUE	---	---	---	17.17	0	METERED	CONTINUOUS
OIL & GREASE MG/L	001	EFFLUENT VALUE	---	---	---	9.000	---	GRAB	WEEKLY
BORON MG/L	001	EFFLUENT VALUE	---	---	---	6.000	---	GRAB	WEEKLY
BOD5 MG/L	012	NET VALUE	---	---	---	8.09	0	GRAB	WEEKLY
SUSPENDED SOLIDS MG/L	012	NET VALUE	---	---	---	5.7200	---	METERED	CONTINUOUS
FECAL COLIFORMS MPN/100 ML	012	NET VALUE	---	---	---	5.468	0	METERED	CONTINUOUS
PH SU	012	NET VALUE	---	---	---	15.000	---	GRAB	MONTHLY
TEMPERATURE - DIFF DEG C	001	EFFLUENT VALUE	---	---	---	1.2*	0	GRAB	MONTHLY
HEAT BIL BTU/H	001	NET VALUE	---	---	---	19.3*	0	GRAB	MONTHLY
OIL & GREASE MG/L	001	EFFLUENT VALUE	---	---	---	1.000	---	GRAB	DISCH. OF 001F
BORON MG/L	001	EFFLUENT VALUE	---	---	---	<0.1	0	GRAB	DISCH. OF 001F
BOD5 MG/L	012	NET VALUE	---	---	---	30.000	---	GRAB	MONTHLY
SUSPENDED SOLIDS MG/L	012	NET VALUE	---	---	---	45.000	---	GRAB	MONTHLY
FECAL COLIFORMS MPN/100 ML	012	NET VALUE	---	---	---	0.10	0	GRAB	MONTHLY
PH SU	012	NET VALUE	---	---	---	30.000	---	GRAB	MONTHLY
TEMPERATURE - DIFF DEG C	001	EFFLUENT VALUE	---	---	---	4.8	0	GRAB	MONTHLY
HEAT BIL BTU/H	001	NET VALUE	---	---	---	200.000	---	GRAB	MONTHLY
OIL & GREASE MG/L	001	EFFLUENT VALUE	---	---	---	<1.0	0	GRAB	MONTHLY
BORON MG/L	001	EFFLUENT VALUE	---	---	---	9.000	---	GRAB	MONTHLY
BOD5 MG/L	012	NET VALUE	---	---	---	6.000	---	GRAB	MONTHLY
SUSPENDED SOLIDS MG/L	012	NET VALUE	---	---	---	7.26	---	GRAB	MONTHLY
FECAL COLIFORMS MPN/100 ML	012	NET VALUE	---	---	---	7.59	0	GRAB	MONTHLY
PH SU	012	NET VALUE	---	---	---	---	---	GRAB	MONTHLY

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.

TYPEWRITTEN NAME AND TITLE

RADFORD J. CONVERSE, RESIDENT MANAGER

SIGNATURE

☒ 1 PERMITTEE☐ 2 A-ENT

DATE

1/28/86

* SEE ATTACHED

POWER AUTHORITY OF S N Y

JAMES A FITZPATRICK NUCLEAR POWER PLANT

123 MAIN ST

WHITE PLAINS

NY

10601

NYC020109

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BS 03 SUB 03 SN

PART I—ENCON COPY

Attachment to JAFP-86-0086
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REGION 7	COUNTY 35 OSWEGO	DATE PRODUCED 01-02-86	PAGE 2 of 4
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES — DISCHARGE MONITORING REPORT



SEE THE REVERSE SIDE OF PART 4 FOR INSTRUCTIONS

PARAMETER/UNITS	OUT FALL	MONITORING LOCATION	REPORT SECTION				SAMPLE CHARACTERISTICS		
				MINIMUM	AVERAGE	MAXIMUM	# EX.	TYPE	FREQUENCY
SETTLEABLE SOLIDS ML/L	012	NET VALUE	LIMIT	-----	-----	0.100	-	GRAB	MONTHLY
			REPORTED VALUE	-----	-----	<0.1	0	GRAB	MONTHLY
RESIDUAL CHLORINE MG/L	012	NET VALUE	LIMIT	-----	-----	0.500	-	GRAB	WEEKLY
			REPORTED VALUE	-----	-----	0.5	0	GRAB	WEEKLY
TOTAL FLOW MGD	012	NET VALUE	LIMIT	-----	-----	0.0020	-	GRAB	MONTHLY
			REPORTED VALUE	-----	-----	0.0037*	0	GRAB	MONTHLY
SUSPENDED SOLIDS MG/L	001a	NET VALUE	LIMIT	MONITORING REQUIREMENT ONLY*			-	GRAB	WEEKLY
			REPORTED VALUE	-----	-----	-----	-	GRAB	WEEKLY
OIL & GREASE MG/L	001a	NET VALUE	LIMIT	MONITORING REQUIREMENT ONLY*			-	GRAB	ANNUAL
			REPORTED VALUE	-----	-----	-----	-	GRAB	ANNUAL
SUSPENDED SOLIDS MG/L	001b	NET VALUE	LIMIT	MONITORING REQUIREMENT ONLY*			-	GRAB	WEEKLY
			REPORTED VALUE	-----	-----	-----	-	GRAB	WEEKLY
OIL & GREASE MG/L	001b	NET VALUE	LIMIT	MONITORING REQUIREMENT ONLY*			-	GRAB	ANNUAL
			REPORTED VALUE	-----	-----	-----	-	GRAB	ANNUAL
PH SU	001c	NET VALUE	LIMIT	6.000	-----	9.000	-	GRAB	BATCH
			REPORTED VALUE	6.15	-----	7.43	0	GRAB	BATCH
SUSPENDED SOLIDS MG/L	001c	NET VALUE	LIMIT	-----	30.000	50.000	-	GRAB	BATCH
			REPORTED VALUE	-----	N/A	5.0	0	GRAB	BATCH
OIL & GREASE MG/L	001c	NET VALUE	LIMIT	-----	-----	15.000	-	GRAB	ANNUAL
			REPORTED VALUE	-----	-----	N/A	0	GRAB	ANNUAL

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TYPEWRITTEN NAME AND TITLE

RADFORD J. CONVERSE, RESIDENT MANAGER

SIGNATURE

☒ 1 PERMITTEE☐ 2 AGENT

DATE

1/20/86

* SEE ATTACHED

PART 1—ENCON COPY

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REGION 7	COUNTY 35 OSWEGO	DATE PRODUCED 01-02-86	PAGE 3 of 4
FACILITY I.D. NY0020109		REPORT PERIOD 12-01-85 THRU 12-31-85	6

NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

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
PH SU	001e	NET VALUE	LIMIT	6.000	-----	9.000	-	GRAB	BATCH
			REPORTED VALUE	5.54*	-----	6.13	0	GRAB	BATCH
SUSPENDED SOLIDS MG/L	001e	NET VALUE	LIMIT	-----	30.000	50.000	-	GRAB	BATCH
			REPORTED VALUE	-----	N/A----	0.6	0	GRAB	BATCH
OIL & GREASE MG/L	001e	NET VALUE	LIMIT	-----	-----	15.000	-	GRAB	ANNUAL
			REPORTED VALUE	-----	-----	1.0	0	GRAB	ANNUAL
BORON* MG/L	001f	NET VALUE	LIMIT	-----	-----	-----	-	-----	-----
			REPORTED VALUE	-----	-----	-----	-	-----	-----
PH SU	001g	NET VALUE	LIMIT	6.000	-----	9.000	-	GRAB	BATCH
			REPORTED VALUE	N/A	-----	N/A	-	ND	ND
SUSPENDED SOLIDS MG/L	001g	NET VALUE	LIMIT	-----	30.000	50.000	-	GRAB	BATCH
			REPORTED VALUE	-----	N/A	N/A	-	ND	ND
OIL & GREASE MG/L	001g	NET VALUE	LIMIT	-----	-----	15.000	-	GRAB	BATCH
			REPORTED VALUE	-----	-----	N/A	-	ND	ND
SURFACTANTS MG/L	001h	NET VALUE	LIMIT	MONITORING REQUIREMENT ONLY*			-	GRAB	2/MONTH
			REPORTED VALUE	-----	-----	-----	-	ND	ND
SUSPENDED SOLIDS MG/L	001i	NET VALUE	LIMIT	MONITORING REQUIREMENT ONLY*			-	GRAB	2/MONTH
			REPORTED VALUE	-----	-----	-----	-	ND	ND
OIL & GREASE MG/L	001i	NET VALUE	LIMIT	MONITORING REQUIREMENT ONLY*			-	GRAB	2/MONTH
			REPORTED VALUE	-----	-----	-----	-	ND	ND

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SIGNATURE

☒ 1 PERMITTEE☐ 2 AGENT

DATE

1/25/86

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PART 1—ENCON COPY

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91-15-4 (11/80)

REGION 7	COUNTY 35 OSWEGO	DATE PRODUCED 01-02-86	PAGE 4 of 4
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NEW YORK STATE DEPARTMENT OF ENVIRONMENTAL CONSERVATION

SPDES — DISCHARGE MONITORING REPORT



SEE THE REVERSE SIDE OF PART 4 FOR INSTRUCTIONS

PARAMETER/UNITS	OUT FALL	MONITORING LOCATION	REPORT SECTION				SAMPLE CHARACTERISTICS	
				MINIMUM	AVERAGE	MAXIMUM	# EX.	FREQUENCY
PH SU	002	NET VALUE	LIMIT	6.000	-----	9.000	-	GRAB 2/MONTH
			REPORTED VALUE	3.95*	-----	5.45*	2	GRAB 2/MONTH
SUSPENDED SOLIDS MG/L	002	NET VALUE	LIMIT	-----	30.000	50.000	-	GRAB 2/MONTH
			REPORTED VALUE	-----	25.8	44.8	0	GRAB 2/MONTH
OIL & GREASE MG/L	002	NET VALUE	LIMIT	-----	-----	15.000	-	GRAB 2/MONTH
			REPORTED VALUE	-----	-----	10.8	0	GRAB 2/MONTH
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TYPEWRITTEN NAME AND TITLE

RESIDENT MANAGER

☒ 1 PERMITTEE☐ 2 AGENT

SIGNATURE

DATE

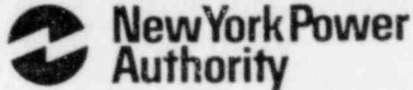
1/28/86

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

Radford J. Converse
Resident Manager



January 28, 1986
JAFP-86-0086

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. FitzPatrick Nuclear Power Plant State Pollutant Discharge Elimination System Monitoring Report for the month of December, 1985.

If there are any questions regarding the attached, please contact Mr. John A. Solini of the plant staff at (315) 593-5740.

A handwritten signature in cursive script, appearing to read 'R. Converse'.

RADFORD J. CONVERSE

RJC:JAS:jaa

Attachments

Copy: H. R. Denton (NRC/NRR)
D. Barolo (NYDEC)
K. Del Prete (NYDEC)
R. Baker (EPA/Region 2)
J. C. Brons (NYPA/WPO)
J. Blake (NYPA/WFO)
J. A. Solini
Document Control Center
File

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