

New Hampshire Yankee

Ted C. Feigenbaum
President and
Chief Executive Officer

NYN-92051

April 19, 1992

United States Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Document Control Desk

References: (a) Facility Operating License No. NPP-86, Docket No. 50-443
(b) National Pollutant Discharge Elimination System (NPDES) Permit No. NH0020338

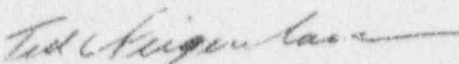
Subject: Annual Environmental Operating Report

Gentlemen:

Enclosed please find the Annual Environmental Operating Report for Seabrook Station. The enclosed report is a summary of the implementation of the Environmental Protection Plan (EPP) for the period of January 1, 1991 to December 31, 1991. This report is submitted pursuant to the requirements of Section 5.4 of the Seabrook Station Environmental Protection Plan.

Should you require further information regarding this matter, please contact Mr. James M. Peschel, Regulatory Compliance Manager at (603) 474-9521, extension 3772.

Very truly yours,


Ted C. Feigenbaum

Enclosures

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cc: (without enclosures)

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SEABROOK STATION

ANNUAL ENVIRONMENTAL OPERATING REPORT

JANUARY 1, 1991 TO DECEMBER 31, 1991

SEABROOK STATION
ANNUAL ENVIRONMENTAL OPERATING REPORT
JANUARY 1, 1991 TO DECEMBER 31, 1991

1. Environmental Studies Program

Attachment 1 is Technical Report XXII-II, which summarizes environmental data results from 1975 through 1990. Attachment 2, Technical Report XXII-I, is the data report for 1990. The data report for 1991 is still under development and will be forwarded as part of the 1992 submittal.

New Hampshire Yankee submitted an amended application (Attachment 3) for a National Pollutant Discharge Elimination System (NPDES) Permit renewal to the USEPA on April 11, 1991 with a copy sent to the NRC via NHY letter NYE-91009.

2. Environmental Protection Plan Activities for Reporting Period

Aquatic Monitoring

New Hampshire Yankee (NHY) submitted a report "Comparative Evaluations of Hydraulic Model and Field Thermal Plume Data, Seabrook Nuclear Power Station." This report measures the thermal plumes from the cooling water discharge, from plant operations, and compares them to predicted plumes. Overall, a satisfactory agreement between the models and field data was observed. This report was submitted to the USEPA on June 18, 1991 (Attachment 4).

New Hampshire Yankee on April 26, 1991 submitted a report, "1990 Ocean Temperature Compliance Report". This report summarizes ocean temperature data acquired in 1990 during the first 6 months of Seabrook Station operation - as required by NPDES Permit No. NH0020338. As a followup, on January 21, 1992, NHY submitted an amended document, (Attachment 5) to correct minor flaws in the original data submittal.

Terrestrial Monitoring

Not Applicable

Noise Monitoring

Not Applicable

3. EPP Non-Compliance and Corrective Actions

There were 51 exceptions noted and reported in the Seabrook Station Discharge Monitoring Reports (DMRs) for the reporting period (1991). A summary description of those exceedances is provided below. The number in parentheses indicates the number of exceedances reported each month.

4. Changes to Plant Design or Operation

New Hampshire Yankee (NHY) requested that the diversion of the Unit 1 Protected Area stormwater to the Circulating Water System be accomplished by implementing a limited portion of the flowpath modification that was requested by NHY in its April 11, 1991 NPDES permit renewal. This request was approved by the USEPA on October 12, 1991. The diversion of the Unit 1 Protected Area stormwater to the Circulating Water System was accomplished by utilizing the abandoned Unit 2 circulating water pipe. This flowpath modification includes a radiation monitoring skid that will continuously monitor this flowpath. All NPDES monitoring requirements for the Circulating Water System (outfall 001) will be met prior to discharge. All other flowpath modifications described in the NPDES renewal application, will not be implemented without EPA approval.

5. Non-Routine Reports

There were no non-routine reports generated during this reporting period.

1991 EXCEEDANCE SUMMARY

Exceedance		Comment
<u>January</u>		
pH	(6)	Secondary plant leakage
	(1)	Algal bloom followed by heavy rains system
Chlorine	(1)	overdose due to start-up.
<u>February</u>		
pH	(2)	Secondary plant leakage
<u>March</u>		
pH	(3)	Secondary plant leakage
TSS	(1)	Swings in pH during neutralization results in elevated iron levels.
<u>April</u>		
pH	(2)	Secondary plant leakage algal growth
	(4)	followed by heavy rains
Turbidity	(1)	Secondary plant resins found in sump
TSS	(1)	Equipment malfunction
Chlorine	(1)	
<u>May</u>		
pH	(5)	Secondary plant leakage
	(3)	Algal bloom with heavy rains
<u>June</u>		
pH	(4)	Secondary plant leakage
Glycol	(1)	Equipment malfunction
<u>July</u>		
pH	(4)	Secondary plant leakage
TSS	(1)	Secondary plant resins found in sump
<u>August</u>		
None		
<u>September</u>		
TSS	(3)	Algal bloom
Total Flow	(1)	Heavy rains
pH	(1)	Algal bloom
<u>October</u>		
BCD	(2)	Seasonal lagoon turnover
Coliform	(2)	Transfer bottle possibly contaminated as chlorine level was acceptable
pH	(1)	Secondary plant leakage

1991 EXCEEDANCE SUMMARY
(continued)

Exceedance	Comment
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<u>November</u>	
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None	
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<u>December</u>	
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None	
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