ENCLOSURE TO NYN-88053

SEABROOK STATION
ANNUAL ENVIRONMENTAL OPERATING REPORT
JANUARY 1, 1987 TO DECEMBER 31, 1987

1. Preoperational Program

The Preoperational Environmental Studies Program at Seabrook Station spans the period from 1975 to date. Attachment 1 to this enclosure is Technical Report XVIII-II which summarizes environmental studies conducted since 1975 and provides a comparison to the 1986 monitoring season. A summarization report for 1987 is not yet available but will be forwarded as part of the 1988 submittal.

2. Environmental Protection Plan Activities for Reporting Period

Aquatic Monitoring

Attachments two and three to this enclosure are studies that were completed this Reporting Period. The first study, "Determination of Neoplasia in Soft-Shell Clams *Mya arenaria* Near the Seabrook Nuclear Plant," was done to document the prevalence of neoplasia in soft-shell clams near Seabrook Station. The other report, "Halogenated Hydrocarbon Production and the Potential of Bioaccumulation at Seabrook Station," was done as part of the Chlorine Minimization Program (CMP) outlined in the National Pollutant Discharge Elimination System (NPDES) Permit.

Terrestrial Monitoring

Not Applicable

Noise Monitoring

Not Applicable

3. EPP Non-Compliances and Corrective Actions

There were 33 exceptions noted and reported in the Seabrook Station Discharge Monitoring Reports (DMRs) for the period (Jan. - Dec. 1987). A summary description of those exceedances is provided below. The number in parenthesis indicates the number of exceedances reported each month.

EXCEEDANCE	COMMENTS
JANUARY	
Coliform (2)	Poor chlorine contact due to baffle configuration in chamber.[1]

EXCEEDANCE	COMMENTS
FEBRUARY	
Coliform (2)	Poor chlorine contact due to baffle configuration in chamber.[1]
MARCH	
Glycol (2)	Discharge flowrate exceeded permit requirements.
Coliform (2)	Poor chlorine contact due to baffle configuration in chamber.[1]
APRIL	
Turbidity (5)	Snow melt and storm water run off following heavy precipitation.
Coliform (2)	Poor chlorine contact due to baffle configuration in chamber.[1]
Iron (2)	Unanticipated discharge from chemical cleaning pond.
MAY	
Turbidity (2)	Stormwater runoff.
TSS (1)	Water hold up to reduce turbidity resulted in an algal bloom.
Glycol (1)	Temporary glycol leak from a building heating system.
pH (1)	Presence of ammonia in auxiliary boiler blowdown which discharges to oil/water separation vault no. 2.
JUNE	
TSS (1)	Algal bloom.
Glycol (1)	Temporary leak from an exterior building heating system.
Coliform (2)	Poor chlorine contact due to baffle configuration in chamber.[1]
pH (1)	Algal bloom in settling pond.
pH (1)	Low pH due to flush down of oil/water separator vault drain lines.[2]

EXCEEDANCE	COMMENTS
JULY	
None	
AUGUST	
pH (1)	Drain down of auxiliary boiler.
SEPTEMBER	
pH (1)	Rainwater drainage through fly ash in auxiliary boiler stack.[2]
OCTOBER	
Coliform (2)	Upset condition due to lagoon aeration tube replacement.
NOVEMBER	
Boron (1)	Discharge of waste test tank at too high a rate.[3]
DECEMBER	
None	

FOOTNOTES

[1] Dye testing of the contact chamber revealed short-circuit flows in the chlorine contact chamber. The baffle configuration has been redesigned and the existing baffles have been replaced.

[2] The auxiliary boiler stack has been inspected and several thousand pounds of fly ash have been removed. Auxiliary boiler fly ash removal has been scheduled as a repetitive task.

[3] Instrumentation was not able to adequately monitor tank flows at the low flow rates experienced. The procedure for waste tank discharges has been modified to better control those discharges.

4. Changes to Plant Design or Operation

No changes to plant design or operation that involved an unreviewed environmental question occurred during this reporting period.

5. Non-routine Reports

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