

# BOSTON EDISON

Pilgrim Nuclear Power Station Rocky Hill Road Plymouth, Massachusetts 02360

W. C. Rothert General Manager Technical

April 20, 1995 BECo 5.95.026

NPDES Program Operations Section (WCP) Environmental Protection Agency P.O. Box 8127 Boston, MA 02114

Massachusetts Division of Water Pollution Control Lakeville Hospital Lakeville, MA 02346

# Discharge Monitoring Report

Dear Sirs:

Enclosed is the Discharge Monitoring Report for Pilgrim Nuclear Power Station (PNPS), NPDES Permit Number MA0003557 (Federal) and Number 359 (State).

The period covered by this report is March, 1995.

W. C. Rothert

RDA/lam/RAP/DMR

Attachments: 1. Summary

2. Discharge Monitoring Report

CC:

U. S. Nuclear Regulatory Commission Document Control Desk

Washington, DC 20555

U. S. Nuclear Regulatory Commission

Region I

475 Allendale Road

King of Prussia, PA 19406

Senior NRC Resident Inspector Pilgrim Nuclear Power Station

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# ATTACHMENT 1 TO BECO LETTER 5.95,026

#### SUMMARY

### PILGRIM I DISCHARGE MONITORING REPORT

In accordance with the Federal Clean Water Act, as amended (33USC 1251 et seq: the "CWA"), and the Massachusetts Clean Water Act, as amended (M.G.L.; Chap. 21, 26-53), regarding effluent limitations, monitoring requirements and other conditions set forth in the Pilgrim NPDES Permit (Federal Permit Number MA0003557, and State Permit Number 359), parts I and II, the following information is submitted for the period March, 1995.

# Discharge Points Covered in this Report

Discharge Point	Discharge Identification
001	Condenser Cooling Water
002	Thermal Backwash for Biofouling Control
003	Intake Screen Wash
004, 005, 006, and 007	Yard Drains (April and September)
008	Sea Foam Suppression
010	Service Cooling Water
011	Makeup Water and Demineralizer Waste Discharge

# Summary and Notes of Discharge Report

- A. The flow at points 001 and 010 are calculated from system pump capacity and are equal to the total for all pumps in each system running at full capacity for a 24-hour period. The flow at 011 is measured by noting sump levels before and after discharge. Flow at point 002 is a conservative figure obtained by calculating flow if backwashing took place for 24 hours. Flow at points 003 and 008 are calculated from system pump capacity and mean operating time.
- B. The temperatures at points 001 and 002 are measured by resistance temperature detectors (RTD's).
- C. Periodically, total residual chlorine (TRC) concentration in the service cooling water (010) exceeds Permit requirements (0.50 ppm daily average TRC and 1.00 ppm daily maximum TRC) prior to mixing with any other stream, primarily because of the number of service water pumps in operation. Chlorine injection levels are lowered as a corrective measure. The dilution provided by the PNPS circulating water flow keeps total residual chlorine concentrations discharged to Cape Cod Bay below the NPDES Permit limit of 0.1 ppm.
- D. For stormwater outfalls 004, 005, 006 and 007, Sigma 800 SL Portable Composite Samplers are utilized. The samplers are equipped with a "liquid level activator" that commences the sampling when the liquid reaches a predetermined level. This assures a sample is taken "within the first hour of the start of a significant storm event." The intake and collection assemblies of the samplers conform to U.S. EPA requirements for collecting oil and grease samples (USEPA letter to BECo dated 1/7/92). No additional inputs to these stormwater outfalls occur downstream of the composite samplers' sampling locations.

- E. Intake traveling water screens were operated with dechlorination pumps operating at all times.
- F. No sawdust was applied to seek and seal PNPS condenser leaks in March.
- G. The following boron and sodium nitrite discharges (ppm) occurred in March 1995 from discharge point #001. All discharges were below NPDES Permit limits prior to entering Cape Cod Bay.

Date		Gallons	Concentration Before Discharge Boron	Concentration
Discharged		Discharged		Discharged
	3/02/94	8,350	1.0	0.0013
	3/12/95	11,022	0.1	0.0001
	3/23/95	11,356	8.2	0.0106
	3/31/95	14,028	0.5	0.0006
		Soc	dium Nitrite	
	3/02/95	8,350	6.0	0.0077
	3/12/95	11,022	3.0	0.0039
	3/23/95	11,356	33.0	0.0426
	3/31/95	14,028	36.0	0.0465

- H. Approximately 50 cubic yards of sand were removed from the concrete surface of the intake structure on March 1, 2 and 7, 1995. It was pumped into breakwater crevices above the high tide mark. The sand removal was necessary to alleviate concern over its effects on normal operation of mechanical components/traveling screens, and it was expected to have no adverse environmental impact. The removal operation was in accordance with Part I, Paragraph A.1.0 of the NPDES Permit.
- By telecon on March 17, 1995 (BECo Telecon 4.95.003), the U.S. EPA approved the discharge of a fire water storage tank to the PNPS intake embayment in order that maintenance may be performed on it. The tank contains 250,000 gallons of Plymouth town water and will be discharged at the rate of 200 gpm. The water has no detectable radiological activity, pH 6.7, total suspended solids <5.0 ppm, silica 10.8 ppm, chlorides 14.1 ppm and nitrites <2.0 ppm.
- J. On March 31, 1995 the USEPA approved a discharge with a pH below the allowable NPDES Permit limit (6.1) from the PNPS demineralizer waste discharge point (011)(BECo Telecon 4.95.004). The pH in the waste tank was approximately 5.5 but its discharge to Cape Cod Bay, with one circulating water pump dilution, was expected to have no adverse environmental impact.

ATTACHMENT 2 TO BECo LETTER 5.95.026

DISCHARGE MONITORING REPORT

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DISCHARGE MUNITORING REPORT TOURS

Facility Name/Location if different/