

BOSTON EDISON

Pilgrim Nuclear Power Station Rocky Hill Road Plymouth, Massachusetts 02360

W. C. Rothert General Manager Technical

April 15, 1994

BECo 5.94.041

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, 1994.

In W. C. Rothert

RDA/DMR/nas

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

9404270021 940331 PDR ADOCK 05000293 R PDR JE23 1/1

ATTACHMENT 1 TO BECO LETTER 5.94.041

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 1994.

I. 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)
010	Service Cooling Water
011	Makeup Water and Demineralizer Waste Discharge

II. 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 point 003 is 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.

For stormwater outfalls 004, 005, 006 and 007, Sigma 800 SL D. 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. Sawdust was applied to seek and seal PNPS condenser leaks on March 4 (1,470 pounds), 5 (750 pounds), 6 (420 pounds), 11 (120 pounds), 12 (60 pounds), 13 (120 pounds), 15 (120 pounds), 17 (60 pounds) and 18 (60 pounds). The following boron and sodium nitrite discharges (ppm) occurred G. in March 1994 from discharge point #001. All discharges were below NPDES Permit limits prior to entering Cape Cod Bay. Concentration Concentration Date Gallons Before Discharge Discharged Discharged Discharged Boron 0.009 3/9/94 12,692 0.72 Sodium Nitrite 19.8 0.026 3/9/94 12,692 By letter on March 1, 1994 the USEPA confirmed their verbal H. approval of modifications to the PNPS firewater system for the suppression of foam and traveling water screen washing in the intake during storm periods (BECo Letter 5.94.023). This, and saltwater screenwash system upgrades, will increase the average and maximum screenwash flows at NPDES Permit discharge point #003 from approximately 2.1 MGD to 4.1 MGD. A letter was sent to the USEPA on March 17,1994 requesting 1. approval to use a new PNPS demineralized/makeup water system with reverse osmosis, bypassing the neutralizing sump prior to discharge (BECo Letter 5.94.031). The discharge canal, fish barrier net was installed on March 29, J. 1994. This was prior to the April 1 deadline for net installation as stated in the USEPA letter to Boston Edison Company dated December 28, 1993 (BECo Letter 5.93.128).

K. Approximately 50 cubic yards of sand were removed from the concrete surfaces of the intake structure on March 30 & 31, 1994. 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.

ATTACHMENT 2 TO BECO LETTER 5.94.041
DISCHARGE MONITORING REPORT

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DISCHARGE MONITORING REPORT (DMR)

EPA Form 3320-1 (Rev. 9-88) Previous editions may be used.

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