

Pilgrim Nuclear Power Station 600 Rocky Hill Road Plymouth, Massachusetts 02360

> November 15, 1995 BECo 5.95.093

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 October, 1995.

Should you have any questions on this report, please direct these to our Principal Marine Biologist, Mr. Robert Anderson, at (508) 830-7935.

Respectfully.

H. V. Oheim

General Manager-Technical

RDA/nas/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 9511210116 951031 PDR ADOCK 05000293

PDR

ATTACHMENT 1 TO BECO LETTER 5.95.093

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 October, 1995.

I. Discharge Points Covered in this Report

Discharge Identification
Condenser Cooling Water
Thermal Backwash for Biofouling Control
Intake Screen Wash
Yard Drains (April and September)
Sea Foam Suppression
Service Cooling Water
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 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. Sawdust was applied to seek and seal PNPS condenser leaks on October 29 (60 pounds).
- G. The following boron and sodium nitrite discharges (ppm) occurred in October 1995 from discharge point #001. All discharges were below NPDES permit limits prior to entering Cape Cod Bay.

Date	Gallons	Concentration	Concentration
Discharged	Discharged	Before Discharge	Discharged
		Boron	
10/04/95	11,356	<1.0	<0.0013
10/16/95	11,022	<1.0	<0.0013
10/31/95	13,026	<1.0	<0.0013
	Soc	dium Nitrite	
10/4/95	11,356	<1.0	<0.0013
10/16/95	11,022	<1.0	<0.0013
10/31/95	13,026	<1.0	<0.0013

- H. On October 6, 1995 a telephone call (BECo Telecon 4.95.015) was made to the U.S. EPA, as required by the PNPS NPDES permit, to inform them of a thermal backwash temperature limit (120°F) violation. For approximately 6 minutes on October 5, 1995, thermal backwash intake temperature exceeded 120°F with a maximum of 123.9°F being recorded. The reasons for exceeding the backwash temperature limit were believed to be extreme biofouling of condenser tubes in combination with low tide conditions.
- Pilgrim Station Marine Ecology Semi-Annual Report NO. 46 was sent to the U.S. EPA and Mass. DEP on October 17, 1995 as required by the NPDES permit #MA0003557 (BECo Letter 5.95.085).

ATTACHMENT 2 TO BECO LETTER 5.95.093

DISCHARGE MONITORING REPORT

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