

Pilgrim Nuclear Power Station Rocky Hill Road Plymouth, Massachusetts 02360

Henry V. Oheim General Manager - Technical Section June 20, 1996 BECo Ltr. 5.96.036

NPDES Programs (SPA)
U.S. Environmental Protection Agency
P.O. Box 8127
Boston, MA 02114-8127

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 May, 1996.

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

Respectfully

H. V. Oheim

RDA/pkk/radmisc/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

9606250148 960531 PDR ADOCK 05000293 R PDR JE23.

ATTACHMENT 1 TO BECO LETTER 5.96.036

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 May, 1996.

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					

II. Summary and Notes of Discharge Report

- A. The flows 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. Flows 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 without dechlorination pumps operating on 5/06/96 (2 hours) because of operator error.
- F. No sawdust was applied to seek and seal PNPS condenser leaks in May 1996.
- G. The following boron and sodium nitrite discharges (ppm) occurred in May 1996 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	

No Discharge

Sodium Nitrite

No Discharge

H. The yard drains' oil and grease samples for April 1996 were reported in the April DMR as measuring < 4.0 ppm. While this is correct and below the permit limit of 15.0 ppm, subsequent receipt of the actual laboratory analytical data for April documented the following oil and grease ppms for each yard drain:

Drain #	Oil & Greas (ppm)
004	3.2
005	2.4
006	2.8
007	2.7

ATTACHMENT 2 TO BECO LETTER 5.96.036

DISCHARGE MONITORING REPORT

PERMITTEE NAME/ADDRESS (Include Facility Name Location of Different) LOSTON ED AT PILERIN PLANT

ATTNO T A CHIETWAN, DEANT MAMACED

ADDRESS ROCKY HILL ROAD

RED #1 PLYMOUTH

FACILITY

LOCATION

MA 02360

NATIONAL POLISTANT DISCHARGE ELIMINATION SYSTEM (NPDES) DISCHARGE MONITORING REPORT IDMRI (17-19)

MA0003557 PERMIT NUMBER

1171 DISCHARGE NUMBER

Form Approved CONDENSER CODLINGOMBONDF2040-0004

Approvales perga 05-31-98 (SUBR 5) F - FTMA:

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*** NO DISCHARGE ! 4 NOTE: Read instructions before completing this form

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PH SHALL NOT WARY MORE THAN 0.5 PH STANDARD UNITS FROM INTAKE WATER. SEE PERMIT PAGE 5 PARAGRAPHS MEN FO R BORON AND SODIUM NITRATE REPORTING REQUIREMENTS. ATTACH ALL' RELATED REPORTS TO THIS FORM.

NET SHALL BE MAINTAINED AT THE THERMAL END OF DISCHARGE CANAL AT ALL ITMES-EPA Form 3320-1 (08-95) Previous editions may be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.) 00367/260119-1705 105

Form Approved. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITTEE NAME/ADDRESS (Include Feetlisy Name Location of Differ int) DISCHARGE MONITORING REPORT IDMRI THERMAL SACKHASH OMB No. 2040-0004 BOSTON FO #1 PILGRIM PLANT (17-19) 12-161 Approvehenninge-05-31-98 MA000355 332 (SUBR S) ADDRESS ROCKY HILL ROAD F - FINALI DISCHARGE NUMBER PERMIT NUMBER RFD #1 SOLAM PLYMOUTH NA 02360 MONITORING PERIOD FACILITY MO DAY YEAR MO *** NO DISCHARGE LOCATION US FROM 96 TO NOTE: Read instructions before completing this form. ATTN: T.A. SULLIVAN, PLANT MANAGER 120-21) 122-231 124-261 (26-27) (28-28) (30-31) QUANTITY OR CONCENTRATION QUANTITY OR LOADING 14 Card Only! PREQUENCY 13 Card Only! NO. SAMPLE PARAMETER (46-53) (54-61) (38-45) 146-531 154-611 EX TYPE ANALYSIS 132-371 AVERAGE MAXIMUM UNITS AVERAGE MAXIMUM UNITS MINIMUM 152-621 164-581 169-701 **** ma 15) TEMPERATURE, WATER SAMPLE **** **** **** MEASUREMENT DEG. FAHRENHEIT CORD **** *** ***** 00011 1 0 0 PERMIT ***** REQUIREMENT DEG.F ZLOU *** DAILY ME FFFLUENT GROSS VALUE (03) **** ***** **** **** TH CONDUIT OR SAMPLE mo PLANTMEASUREMENT **** ***** **** PERMIT 50050 0 REQUIREMENT *** DISCHR DAILY MX MED EFFLUENT GROSS VALUE SAMPLE MEASUREMENT PERMIT REQUIREMENT BAMPLE **MEASUREMENT** PERMIT REQUIREMENT SAMPLE **MEASUREMENT** PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERBONALLY EXAMINED AND TELEPHONE DATE NAME/TITLE PRINCIPAL EXECUTIVE OFFICER AM FAMILIAR WITH THE INFORMATION BUBMITTED HEREIN; AND BASED ON T.A. SULLIVAN MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE PLANT MANAGER THE COSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. \$ 1001 AND 33 GNATURE OF PRINCIPAL EXECUTIVE U.S.C. 5 1318. (Penalties under these attitutes may include fines up to £10,000 NUMBER YEAR MO DAY TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT and or maximum imprisonment of between 6 month, and 5 years.) COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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Form Approved. NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMITTEE NAME/ADDRESS (Include Facility Name/Location of Different) DISCHARGE MONITORING REPORT (DMR) # 40MB No. 2040-0004 INTRKE STREEM NAME BOSTON FO MI PILERIM PLANT Approvalentation 05-31-98 ESUAR S 1 ADDRESS ROCKY HILL ROAD F - FINALI PERMIT NUMBER DISCHARGE NUMBER RFD #1 SOLAR MA 02360 PLYMOUTH MONITORING PERIOD FACILITY MO DAY YEAR MO DAY *** NO DISCHARGE **U**5 LOCATION UT 21 FROM 95 NOTE: Read instructions before completing this form. ATTN: T.A. SULLIVAN, PLANT MANAGER 120-211 122-231 124-251 (26-27) (28-29) (30-31) QUANTITY OR CONCENTRATION QUANTITY OR LOADING PREQUENCY 13 Cerd Only) 14 Card Only) SAMPLE PARAMETER (38-45) (46-53) (54-61) 146-531 (54-61) EX TYPE (32-37) AHAI YSIS MAXIMUM UNITS AVERAGE AVERAGE MAXIMUM UNITS MINIMUM 152-635 164-681 (69-70) *** SAMPLE (03) 我会会会会会 **** FLOW, IN CONDUIT OR 01/0 THRU TREATMENT PLANTMEASUREMENT MGD ESTIM **** DAILY PERMIT 4-1 **** **** 1 0 1 53050 REQUIREMENT *** DAILY MX MGD MO AVG EFFLUENT GROSS VALUE SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND TELEPHONE DATE NAME/TITLE PRINCIPAL EXECUTIVE OFFICER AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INCLIED OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR T. A. SULLIVAN OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS 830 TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING PLANT MANAGER THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. \$ 1001 AND 33 SIGNATURE OF PRINCIPAL EXECUTIVE U.S.C. § 1319. (Fonetities under those statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) YEAR OFFICER OR AUTHORIZED AGENT NUMBER MO DAY TYPED OR PRINTED CODE

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

T. A. SULLIVAN PLANT MANAGER

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CENTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AMP FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1318. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 6 years.)

ASINATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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PERMITTEE NAME/ADDRESS (Include Facility Name Location (f Different) BOSTON ED #1 PILGRIM PLANT

ADDRESS ROCKY HILL ROAD

2F0 #1 PLYMOUTH

FACILITY LOCATION MA 02360

MONITORING PERIOD YEAR MO DAY YEAR MO DAY FROM USI UTI TO

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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Approveles pires 05-31-98

Form Approved.

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NOTE: Read instructions before completing this form.

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COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

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OF

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16)

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PERMITTEE NAME/ADDRESS (Include Facility Names Location of Different)

BOSTON TO #1 PILGRIM PLANT

Form Approved.

Approvales price 05-31-98

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(SUBR S)

OF