

Pilgrim Nuclear Power Station Rocky Hill Road Plymouth, Massachusetts 02360

Henry V. Oheim General Manager - Technical Section

January 20,1997 BECo Ltr. 5.97.001

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 December, 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/dmc/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 40098

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 5.97.001

#### 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 December, 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, samples are collected by grab sampling. Samples are handled and stored in accordance with 40 CFR 136. No additional inputs to these stormwater outfalls occur downstream of the 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 December 1996
- G. The following boron and sodium nitrite discharges (ppm) occurred in December 1996 from discharge point #001. All discharges were below NPDES permit limits prior to entering Cape Cod Bay.

Date Discharged Gallons Discharged Concentration Before Discharge Concentration Discharged

Boron

None

Sodium Nitrite

None

# ATTACHMENT 2 TO BECo LETTER 5.97.001 DISCHARGE MONITORING REPORT

PEHMITTEE NAME/ADDRESS (Include Facility Name: Location if Different) BOSTON ED #1 PILGRIM PLANT

ATTN: T.A. SHILLTVAN, PLANT MANAGED

ADDRESS ROCKY HILL KDAD RED #1

FACILITY

LOCATION

HTUCMYJA

MA 02360

PERMIT NUMBER

FROM

(17-19) 001 DISCHARGE NUMBER

31

YEAR MO DAY

70

PATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

MONITORING PERIOD

12-161

YEAR MO DAY

12

MA0003557

96

Form Approved. CONDENSER CODLINGOMBRO FRO 40-0004 Approvales pring at 05-31-98 (SUBR S ) F - FINALI

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

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

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PAGE 1OF PEHMITTEE NAME/ADDRESS (Include Facility Name/Location of Different) NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) Form Approved. DISCHARGE MONITORING REPORT (DMR) THERMAL BACKWASH OMB No. 2040-0004 BOSTON ED #1 PILGRIM PLANT 157-19 Approvales prings 05-31-98 MA0003557 ADDRESS ROCKY HILL ROAD 002 1 (SURR S ) RFD #1 PERMIT NUMBER DISCHARGE NUMBER F - FINALI MA 02360 PLYMOUTH SCLAN MONITORING PERIOD FACILITY MO DAY YEAR MO DAY \*\*\* NO DISCHARGE LOCATION FROM 96 031 76 12 31 12 ATTN: T.A. SULLIVAN, PLANT MANAGER NOTE: Read instructions before completing this form. (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) QUANTITY OR LOADING QUANTITY OR CONCENTRATION 13 Card Only) 14 Card Onlyi PREQUENCY NO. PARAMETER SAMPLE (46-53) 154-611 (38-45) (46-53) 154-611 OF EX (32-37) TYPE ANALYSIS AVERAGE MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS (62-63) 164-681 169-701 TEMPERATURE, WATER SAMPLE \*\*\*\*\* \*\*\*\*\* \*\*\*\*\* no ( 15) \*\*\*\* MEASUR\_MENT dischara DEG. FAHRENHEIT 00011 1 0 0 PERMIT \*\*\*\*\* \*\*\*\*\* \*\*\*\* \*\*\*\* RCDRD REQUIREMENT EFFLUENT GROSS VALU \*\*\* DAILY MX DEG. F nonz ma SAMPLE \*\*\*\*\* ( 033 \*\*\*\* FLOW, IN CONDUIT OR \*\*\*\* \*\*\*\* THRU TREATMENT PLANTMEASUREMENT 50050 PERMIT 0 \*\*\*\* \*\*\* \*\*\*\* \*\*\*\* EFFLUENT GROSS VALUEREQUIREMENT DISCHE DAILY MX MSD \*\*\* SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE **MEASUREMENT** PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE **MEASUREMENT** PERMIT REQUIREMENT NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMIN® AND TELEPHONE DATE AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON T.A. SULLIVAN PLANT MANAGER MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION, I BELIEVE THE SUBMITTED INFORMATION IS TRUE, ACCUPATE 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 SIGNATURE OF PRINCIPAL EXECUTIVE U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 TYPED OR PRINTED and or maximum imprisonment of between 6 months and 5 years.) OFFICER OR AUTHORIZED AGENT YEAR MO DAY

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

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EPA Form 3320-1 (08-95) Previous editions may be used.

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NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

TYPED OR PRINTED

T. A. SULLIVAN PLANT MANABER I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON 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 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.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

508 830-8100 97 / /3 AREA NUMBER YEAR MO DAY

TELEPHONE

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

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EPA Form 3320-1 (08-96) Previous editions may be used.

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

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Approvales per gar 05-31-98 ADDRESS ROCKY HILL ROAD 4A0033557 008 A (SUBR S ) 2FD #1 PERMIT NUMBER DISCHARGE NUMBER F - FINALI PLYMOUTH MA 02360 SOLAM MONITORING PERIOD FACILITY YEAR MO DAY YEAR MO DAY LCCATION 96 FROM 12 UT TO 96 15 \*\*\* NO DISCHARGE ATTN: T.A. SULLIVAN, PLANT MANAGER NOTE: Read instructions before completing this form. (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) (3 Card Only) QUANTITY OR LOADING (4 Card Only) QUANTITY OR CONCENTRATION NO. PRECUENCY PARAMETER SAMPLE (46-53) (54-61) (38-45) 146-531 (54-61) (32-37) TYPE F.AALYSIS AVERAGE MAXIMUM UNITS MINIMUM AVERAGE MAXIMUM UNITS 184 181 169-701 FLOW, IN CONDUIT OR SAMPLE ( 03) \*\*\* \*\*\* \*\*\* disc THRU TREATMENT PLANTMEASUREMENT MGD 50050 1 0 0 PERMIT 0.73 \*\*\*\* \*\*\*\* 在安全安全会 ESTIM EFFLUENT GROSS VALUEREQUIREMENT MO AVG DAILY MX MGD \*\*\* SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE **MEASUREMENT** PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT NAME/TITLE PRINCIPAL EXECUTIVE OFFICER I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND TELEPHONE DATE AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR T.A. SULLIVAN OBTAINING THE INFORMATION, I BELIEVE THE SUB! TTED INFORMATION IS TRUE, ACCURATE AND COMPLETE. I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION, INCLUDING PLANT MANAGER THE POSSIBIUTY OF FINE AND IMPRISONMENT. SEE 18 U.S.C. \$ 1001 AND 33 BIGNATURE OF PRINCIPAL EXECUTIVE U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 TYPED OR PRINTED OFFICER OF AUTHORIZED AGENT NUMBER and or maximum imprisorment of between 8 months and 6 years.) YEAR MO DAY COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

PENINI I TEE NAME/ADDRESS (Include Facility Name: Location if Different)

BOSTON ED #1 PILGRIM PLANT

Form Approved.

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NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

010 A

MAD0033557

PEHMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)

ADDRESS ROCKY HILL ROAD

BOSTON ED #1 PILGRIM PLANT

NAME

00430/960119-1705

Form Approved.

Approvalenting 05-31-98

PLANT SERVICE CODYMBNO. 3044-0004

(SUBR S )

DISCHARGE MONITORING REPORT (DMR) BOSTON FO #1 PILERIM PLANT 12-161 Approvalespires 05-31-98 (SUBRES) MA0003557 ADDRESS ROCKY HILL ROAD 011 DISCHARGE NUMBER F - FINALI PERMIT NUMBER RFD #1 PLYMOUTH MA 02360 SOLAM MONITORING PERIOD FACILITY MO DAY YEAR MO DAY LOCATION \*\*\* NO DISCHARGE |\_\_1 FROM 96 31 011 96 12 121 NOTE: Read instructions before completing this form. ATTN: T.A. SULLIVAN, PLANT MANAGER (20-21) (22-23) (24-25) (26-27) (28-29) (30-31) QUANTITY OR CONCENTRATION (3 Card Only) QUANTITY OR LOADING (4 Card Only) NO. FREQUENCY SAMPLE PAPAMETER 154-611 146-531 (54-61) (38-45) (48-53) OF EX TYPE (32-37) ANALYSIS MAXIMUM UNITS AVERAGE MAXIMUM UNITS AVERAGE MINIMUM 152-631 164-681 169-701 SAMPLE ( 19) \*\*\*\*\* \*\*\*\* \*\*\*\*\* SOLIDS. TOTAL no discharge MEASUREMENT SUSPENDED MG/L PERMIT 30 103 \*\*\*\*\* 00530 1 0 REQUIREMENT \*\*\* MO AVE DATLY MX MG/LI EFFLUENT GROSS VALU SAMPLE no discharge ( 03) \*\*\*\* \*\*\*\* FLOW, IN CONDUIT OR THRU TREATMENT PLANTMEASUREMENT MGD 0.015 PERMIT 0.06 \*\*\*\* \*\*\*\* 去食食食食食 50050 1 0 0 EFFLUENT GROSS VALUE REQUIREMENT \*\*\* DISCHE DATLY MX MO AVE MGD SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT SAMPLE MEASUREMENT PERMIT PEQUIREMENT SAMPLE MEASUREMENT PERMIT REQUIREMENT I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND NAME/TITLE PRINCIPAL EXECUTIVE OFFICER TELEPHONE DATE AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN; AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR T. A. SULLIVAN 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 PLANT MANAGER THE POSSIBILITY OF FINE AND IMPRISONMENT, SEE 18 U.S.C. \$ 1001 AND 33 SIGNATURE OF PRINCIPAL EXECUTIVE U.S.L. § 1319. (Penalties under these statutes may include fines up to \$10,000 TYPED OR PRINTED OFFICER OR AUTHORIZED AGENT NUMBER YEAR MO and or maximum imprisonment of between 6 months and 6 years.) COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all ettachments here) SEE PAGE 5 OF PERMIT PARAGRAPH N FOR SODIUM NITRATE REPORTING REQUIERMENTS. | ATTACH ALL RELATED REPORTS TO THIS FORM

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

PEHMITTEE NAME/ADDRESS (Include Facility Name Location of Different)

NAME

00642/960119-1705

Form Approved.

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