

Licensing Correspondence Control Sheet

Other Correspondence 5.00.001 Ltr. Date: 1/18/00

For Distribution : *Cover Sheet Only

| | | | | | |
|------------------|----|----------------|-----|---------------|-----|
| Licensing File | #1 | R.D. Anderson | #1 | M. Most | #51 |
| J.F. Alexander * | #1 | W.J. DiCroce * | #56 | J.J. Scheffer | #1 |

Title: Discharge Monitoring Report 12/99

Date Received: This is a monthly report of monitoring activities for PNPS discharges required by NPDES permit No. 003557 (EPA) and No. 359 (Mass DEP).

Distribution Reviewed By: R.D. Anderson

Action: No actions required.

IL 2/18/00



Entergy Nuclear Generation Company
Pilgrim Nuclear Power Station
610 Plymouth Road
Plymouth, MA 01960

J. F. Alexander
District
Superintendent

January 18, 2000
ENGCLtr. 5.00.001

Water Technical Unit (SEW)
U.S. Environmental Protection Agency
P.O. Box 8127
Boston, MA 02114-8127

Massachusetts Dept. of Environmental Protection
Southeast Regional Office
20 Riverside Drive
Lakeville, MA 02347

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 1999.

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

Sincerely,

A handwritten signature in black ink, appearing to read "J.F. Alexander".

J.F. Alexander

RDA/sc

Attachments: 1. Summary
2. Discharge Monitoring Report

cc: U. S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555

Senior NRC Resident Inspector
Pilgrim Nuclear Power Station

U. S. Nuclear Regulatory Commission
Region I
475 Allendale Road
King of Prussia, PA 19406

ATTACHMENT 1 TO ENGC LETTER 5.00.001

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 1999.

I. Discharge Points Covered in this Report

| <u>Discharge Point</u> | <u>Discharge Identification</u> |
|------------------------|--|
| 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 on in December.
- F. No sawdust was applied to seek and seal PNPS condenser leaks in December 1999.
- G. No boron and sodium nitrite discharges (ppm) occurred in December 1999 from discharge point #001.

| <u>Date</u> <u>Discharged</u> | <u>Gallons</u> <u>Discharged</u> | <u>Concentration</u> <u>Before Discharge</u> | <u>Concentration</u> <u>Discharged</u> |
|----------------------------------|-------------------------------------|---|---|
|----------------------------------|-------------------------------------|---|---|

- H. The PNPS Environmental Programs and Plans for 2000, to meet NPDES permit requirements, were submitted to the U.S. EPA for approval on December 27, 1999 (ENGC Ltr. 5.99.184).

ATTACHMENT 2 to ENGC LETTER 5.00.001
DISCHARGE MONITORING REPORT

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

NAME BOSTON ED #1 PILGRIM PLANT

ADDRESS ROCKY HILL ROAD

RFD #1

PLYMOUTH

MA 02360

FACILITY PILGRIM NUCLEAR POWER STATION

LOCATION PLYMOUTH

MA 02360

ATTN: C.S. GODDARD, PLANT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(2-16) (17-19)

MA0003557
PERMIT NUMBER

001 1
DISCHARGE NUMBER

MAJOR

(SUBRS)

F - FINAL

CONDENSER COOLING WATER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

| | | | | | |
|------------------------------|----|-----|----------------------------|----|-----|
| YEAR | MO | DAY | YEAR | MO | DAY |
| 99 | 12 | 01 | 99 | 12 | 31 |
| FROM (20-21) (22-23) (24-25) | | | TO (26-27) (28-29) (30-31) | | |

*** NO DISCHARGE ***

NOTE: Read Instructions before completing this form.

| PARAMETER (32-37) | SAMPLE MEASUREMENT PERMIT REQUIREMENT | (3 Card Only) QUANTITY OR LOADING (46-53) | | | (4 Card Only) QUANTITY OR CONCENTRATION (38-45) (46-53) (54-61) | | | | NO. EX (62-63) | FREQUENCY OF ANALYSIS (64-68) | SAMPLE TYPE (69-70) |
|--|--|--|---------|----------|--|---------|---------|----------|----------------|-------------------------------|---------------------|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 0 | | ***** | ***** | | ***** | ***** | | 81.7 | (15) | 0 | 99/99 RC |
| EFFLUENT GROSS VALUE | | ***** | ***** | **** | ***** | ***** | | 102 | OF | | CONTINCORDP |
| OXIDANTS, TOTAL RESIDUAL J4044 1 0 0 | | ***** | ***** | | ***** | | | 0.08 | (19) | 0 | WH/DS GR |
| EFFLUENT GROSS VALUE | | ***** | ***** | **** | ***** | 0.1 | 0.1 | MO AVG | DAILY MX | MG/L | WHEN GRAB DISCHR |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 | | 446.4 | 446.4 | (13) MGD | ***** | ***** | | ***** | | 0 | 99/99 ES |
| EFFLUENT GROSS VALUE | | 447.0 | 510.0 | MGD | ***** | ***** | | ***** | **** | | CONTINESTINA |
| TEMP. DIFF. BETWEEN INTAKE AND DISCHARGE 61576 1 0 0 | | ***** | ***** | | ***** | ***** | | 29.5 | (15) | 0 | 99/99 CA |
| EFFLUENT GROSS VALUE | | ***** | ***** | **** | ***** | ***** | | 32 | OF | | CONTINCALCTD |
| | | | | | | | | DAILY MX | DEG.F | | UOUS |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
W. J. Di'Croce
PLANT MANAGER
TYPED OR PRINTED

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. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 508 830-8100
DATE 08 1 17
AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
PH SHALL NOT VARY MORE THAN 0.5 PH STANDARD UNITS FROM INTAKE WATER. SEE PERMIT PAGE 5 PARAGRAPHS MEN FOR BORON AND SODIUM NITRATE REPORTING REQUIREMENTS. ATTACH ALL RELATED REPORTS TO THIS FORM. A BARRIER NET SHALL BE MAINTAINED AT THE THERMAL END OF DISCHARGE CANAL AT ALL TIMES.
EPA Form 3320-1 (08-95) Previous editions may not be used. (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

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

NAME BOSTON ED #1 PILGRIM PLANT

ADDRESS ROCKY HILL ROAD

RFD #1

PLYMOUTH

MA 02360

FACILITY PILGRIM NUCLEAR POWER STATION

LOCATION PLYMOUTH

MA 02360

ATTN: C.S. GODDARD, PLANT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) (17-19)

MA0003557

PERMIT NUMBER

002 1

DISCHARGE NUMBER

MAJOR

(SUBR S)

F - FINAL

THERMAL BACKWASH

Form Approved.

OMB No. 2040-0004

Approval expires 05-31-98

MONITORING PERIOD

| | | | | | | | |
|------|---------|---------|---------|----|---------|---------|---------|
| FROM | YEAR | MO | DAY | TO | YEAR | MO | DAY |
| | 99 | 12 | 01 | | 99 | 12 | 31 |
| | (20-21) | (22-23) | (24-25) | | (26-27) | (28-29) | (30-31) |

*** NO DISCHARGE ~~X~~ ***

NOTE: Read Instructions before completing this form.

| PARAMETER (32-37) | SAMPLE MEASUREMENT | (3 Card Only) QUANTITY OR LOADING (46-53) | | | (4 Card Only) QUANTITY OR CONCENTRATION (38-45) | | | NO. EX (62-63) | FREQUENCY OF ANALYSIS (64-68) | SAMPLE TYPE (69-70) |
|--|--------------------|--|---------|-------|--|---------|---------|-------------------|----------------------------------|------------------------|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | | | |
| TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 0 | SAMPLE MEASUREMENT | ***** | ***** | | ***** | ***** | C | (15) | 0 | RC |
| EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | ***** | 120 | OF | | CONTINUOUS |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT | SAMPLE MEASUREMENT | ***** | C | (03) | ***** | ***** | ***** | | 0 | WH/OS ES |
| EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | 255.0 | MGD | ***** | ***** | ***** | **** | | WHEN ESTIMATED DISCH |
| | SAMPLE MEASUREMENT | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | |
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| | PERMIT REQUIREMENT | | | | | | | | | |

| | | | | | | |
|---|---|--|--------------|------|----|-----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER W.J. DiCroce PLANT MANAGER TYPED OR PRINTED | 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. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) | TELEPHONE | DATE | | | |
| | | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | 808 830-8100 | 00 | 12 | 17 |
| | | AREA CODE | NUMBER | YEAR | MO | DAY |

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

THE PH SHALL NOT VARY MORE THAN 0.5 STANDARD UNITS FROM THAT OF THE INTAKE WATER. FLOW RATE IS TO BE ESTIMATED AS IF BACKFLUSHING TOOK PLACE FOR 24 CONTINUOUS HOURS. SEE PERMIT PAGE 8 FOR CONDITIONS REGARDING THE FREQUENCY OF DISCHARGE.

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

NAME BOSTON ED #1 PILGRIM PLANT

ADDRESS ROCKY HILL ROAD

RFD #1

PLYMOUTH

MA 02360

FACILITY PILGRIM NUCLEAR POWER STATION

LOCATION PLYMOUTH

MA 02360

ATTN: C.S GODDARD, PLANT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(17-19)

MA0003557

PERMIT NUMBER

003 A

DISCHARGE NUMBER

MAJOR

(SUBR 5)

F - FINAL

INTAKE SCREEN WASH


Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

| | | | | | | | |
|------|---------|---------|---------|----|---------|---------|---------|
| FROM | YEAR | MO | DAY | TO | YEAR | MO | DAY |
| | 99 | 12 | 01 | | 99 | 12 | 31 |
| | (20-21) | (22-23) | (24-25) | | (26-27) | (28-29) | (30-31) |

*** NO DISCHARGE ***

NOTE: Read Instructions before completing this form.

| PARAMETER (32-37) | X | (3 Card Only) QUANTITY OR LOADING (46-53) | | | (4 Card Only) QUANTITY OR CONCENTRATION (38-45) | | | | NO. EX (62-63) | FREQUENCY OF ANALYSIS (64-68) | SAMPLE TYPE (69-70) | |
|---|---|---|-----------------|-------------|---|---------|---------|--------------|-------------------|--|---------------------------|----|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | | |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 1 EFFLUENT GROSS VALUES | SAMPLE MEASUREMENT | 1.1 | 3.2 | (03) MGD | ***** | ***** | ***** | | | 0 | 01/01 ES | |
| | PERMIT REQUIREMENT | 4.1 MO AVG | 4.1 DAILY MX | MGD | ***** | ***** | ***** | **** | | | DAILY ESTIMATE | |
| | SAMPLE MEASUREMENT | | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | | |
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| | PERMIT REQUIREMENT | | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | | |
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | 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. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.) | | | | | | | TELEPHONE | | DATE | | |
| W.J. DiCroce PLANT MANAGER |  SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | | | | | | | 508 830-8100 | | 00 | 1 | 17 |
| TYPED OR PRINTED | | | | | | | | AREA CODE | | NUMBER | YEAR | MO |

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

THE TEMPERATURE OF THIS DISCHARGE SHALL AT NO TIME EXCEED THE TEMPERATURE OF THE INTAKE WATER.
ALL FISH SHELLFISH AND OTHER ORGANISMS COLLECTED OR TRAPPED ON INTAKE SCREEN SHOULD BE RETURNED TO WATER
OF AMBIENT TEMP. SUFFICIENTLY DISTANT FROM INTAKE STRUCTURES TO PREVENT BEIMPINGEMENT.

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

NAME BOSTON ED #1 PILGRIM PLANT

ADDRESS ROCKY HILL ROAD

RFD #1

PLYMOUTH

MA 02360

FACILITY PILGRIM NUCLEAR POWER STATION

LOCATION PLYMOUTH

MA 02360

ATTN: C.S GODDARD, PLANT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(17-19)

MA 0003557
PERMIT NUMBER

008 A
DISCHARGE NUMBER

MAJOR

(SUBR S)

F - FINAL

SEA FOAM SUPPRESSION DISCHARGE

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

| | | | | | |
|---------|---------|---------|---------|---------|---------|
| YEAR | MO | DAY | YEAR | MO | DAY |
| 99 | 12 | 01 | 99 | 12 | 31 |
| (20-21) | (22-23) | (24-25) | (26-27) | (28-29) | (30-31) |

*** NO DISCHARGE ***

NOTE: Read instructions before completing this form.

| PARAMETER (32-37) | SAMPLE MEASUREMENT | (3 Card Only) QUANTITY OR LOADING (46-53) | | | (4 Card Only) QUANTITY OR CONCENTRATION (38-45) | | | | NO. EX (62-63) | FREQUENCY OF ANALYSIS (64-68) | SAMPLE TYPE (69-70) |
|---|--------------------|---|----------|---------------|---|---------|---------|-------|-------------------|----------------------------------|------------------------|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE | C | 0.73 | 0.73 | (03) MGD | ***** | ***** | ***** | ***** | 0 | 01/01 | ES |
| | PERMIT REQUIREMENT | NO AVG | DAILY MX | MGD | ***** | ***** | ***** | **** | | DAILY | ESTIMA |
| | 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
W.J. DiCroce
PLANT MANAGER
TYPED OR PRINTED

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. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
[Signature]

TELEPHONE
508-836-8100
DATE
01 01 99

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

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

NAME BOSTON RD #1 PILGRIM PLANT

ADDRESS ROCKY HILL ROAD

RFD #1

PLYMOUTH

MA 02360

FACILITY PILGRIM NUCLEAR POWER STATION

LOCATION PLYMOUTH

MA 02360

ATTN: C.S. GODDARD, PLANT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(2-16) (17-19)

MA0003557
PERMIT NUMBER

010 A
DISCHARGE NUMBER

MAJOR (SUBR 5)

F - FINAL

PLANT SERVICE COOLING WATER

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

FROM YEAR 97 MO 12 DAY 01 TO YEAR 99 MO 12 DAY 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

*** NO DISCHARGE [] ***

NOTE: Read Instructions before completing this form.

| PARAMETER (32-37) | SAMPLE MEASUREMENT | (3 Card Only) QUANTITY OR LOADING (46-53) (54-61) | | | (4 Card Only) QUANTITY OR CONCENTRATION (38-45) (46-53) (54-61) | | | | NO. EX (62-63) | FREQUENCY OF ANALYSIS (64-68) | SAMPLE TYPE (69-70) |
|---|--------------------|--|---------|----------|--|------------|--------------|-----------|----------------|-------------------------------|---------------------|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | UNITS | | | |
| OXIDANTS, TOTAL RESIDUAL 34044 1 0 0 | SAMPLE MEASUREMENT | ***** | ***** | | ***** | 0.19 | 0.32 | (19) MG/L | 0 | 02/01 | GR |
| EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | 0.5 NO AVG | 1.0 DAILY MX | MG/L | | CONTINUOUS | RECORDS |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 | SAMPLE MEASUREMENT | 7.4 | ***** | (03) MGD | ***** | ***** | ***** | | 0 | 09/99 | ES |
| EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | 19.4 NO AVG | ***** | MGD | ***** | ***** | ***** | **** | | CONTINUOUS | ESTIMATED |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
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| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |

| | | | | | | |
|--|---|--|--------------|------|---|----|
| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER W. J. DiCroce PLANT MANAGER TYPED OR PRINTED | 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. § 1319. (Penalties under these statutes may include fines up to \$10,000 and or maximum imprisonment of between 6 months and 5 years.) | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | TELEPHONE | DATE | | |
| | | | 508-830-8100 | 00 | 1 | 17 |

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
CONTINUOUS CHLORINATION OF SERVICE WATER SYSTEM MAY BE USED FOR MACROINVERTEBRATE CONTROL. FLOW RATE SHALL BE ESTIMATED FROM PUMP CAPACITY CURVES AND OPERATIONAL HOURS.

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

NAME BOSTON ED #1 PILGRIM PLANT

ADDRESS ROCKY HILL ROAD

RFD #1

PLYMOUTH

MA 02360

FACILITY PILGRIM NUCLEAR POWER STATION

LOCATION PLYMOUTH

MA 02360

ATTN: C.S. GODDARD, PLANT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(17-19)

HA0003557
PERMIT NUMBER

011 A
DISCHARGE NUMBER

MAJOR

(SUBR S)

F - FINAL

MAKE UP WATER AND DEMINERALIZE

Form Approved.
OMB No. 2040-0004
Approval expires 05-31-98

MONITORING PERIOD

FROM 99 12 01 TO 99 12 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

*** NO DISCHARGE ***

NOTE: Read Instructions before completing this form.

| PARAMETER (32-37) | SAMPLE MEASUREMENT | (3 Card Only) QUANTITY OR LOADING (46-53) | | | (4 Card Only) QUANTITY OR CONCENTRATION (38-45) | | | NO. EX (62-63) | FREQUENCY OF ANALYSIS (64-68) | SAMPLE TYPE (69-70) |
|--|--------------------|--|----------|-------|--|---------|----------|-------------------|----------------------------------|------------------------|
| | | AVERAGE | MAXIMUM | UNITS | MINIMUM | AVERAGE | MAXIMUM | | | |
| SOLIDS, TOTAL SUSPENDED | | ***** | ***** | | ***** | C | C | (19) | 0 | 01/BA GR |
| 00530 1 0 0 | PERMIT REQUIREMENT | ***** | ***** | **** | ***** | 30 | 100 | MG/L | ONCE/BATCH | GRAB |
| EFFLUENT GROSS VALUE | | | | | | NO AVG | DAILY MX | | | |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT | SAMPLE MEASUREMENT | C | C | (03) | ***** | ***** | ***** | | 0 | W/PS ES |
| 50050 1 0 0 | PERMIT REQUIREMENT | 0.015 | 0.05 | MGD | ***** | ***** | ***** | **** | WHEN DISCHR | ESTIMA |
| EFFLUENT GROSS VALUE | | NO AVG | DAILY MX | MGD | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
W.J. DiCroce
PLANT MANAGER
TYPED OR PRINTED

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. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE DATE
508 830-8100 00 1 17
AREA CODE NUMBER YEAR MO DAY

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
SEE PAGE 5 OF PERMIT PARAGRAPH N FOR SODIUM NITRATE REPORTING REQUIREMENTS. ATTACH ALL RELATED REPORTS TO THIS FORM