**BOSTON EDISON**
25 Braintree Hill Office Park
Braintree, Massachusetts 02184

**E. J. Wagner**
Vice President
Nuclear Engineering

July, 18, 1991
BECo 5.91-069

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 June 1991.

E. J. Wagner

RDA/cab/4233

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

9107240084 910630
PDR ADOCK 05000293
R PDR

IE73

ATTACHMENT 1 TO BECO LETTER 5.91- 069

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 June 1991.

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 point 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.

D. Intake traveling water screens were operated with dechlorination pumps operating at all times.

E. No sawdust was applied to seek and seal PNPS condenser leaks.

F. On June 14, 1991 the USEPA approved the release of suspended solids in excess of NPDES Permit limits (100 ppm) from the PNPS demineralizer waste discharge (point 011) (BECo Telecon 4.91.015). The suspended solids concentration in the waste tank was 226.6 ppm but the concentration discharged to Cape Cod Bay, with circulating water pump dilution, was less than 1 ppm.

G. The Pilgrim Station 1991 NPDES Permit #MA 0003557 was renewed for a five year period on April 29, 1991 (BECo Letter 5.91.037). June 1991 reporting is in conformance with discharge requirements and limitations of the new NPDES Permit.

H. The following boron and sodium nitrite discharges (ppm) occured in June 1991 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 | |
| 6/11/91 | 15,364 | 23.9 | 0.0308 |
| 6/13/91 | 8,016 | 128.0 | 0.1651 |
| | | Sodium Nitrite | |
| 6/11/91 | 15,364 | 94.8 | 0.12 |
| 6/13/91 | 8,016 | 93.0 | 0.12 |

ATTACHMENT 2 TO BECO LETTER 5.91-069

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

LOCATION

ATTN: E.S. KRAFT, PLANT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

(2-16) MA0003557 — PERMIT NUMBER

(17-19) 001 1 — DISCHARGE NUMBER

MAJOR
(SUBR S )
F - FINAL
COOLING WATERS

Form Approved.
OMB No. 2040-0004.
Approve expires 6-30-91.

MONITORING PERIOD

| | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 91 | 06 | 01 | TO | 91 | 06 | 30 |
| | (20-21) | (22-23) | (24-25) | | (26-27) | (28-29) | (30-31) |

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

| PARAMETER (32-37) | | QUANTITY OR LOADING (46-53) AVERAGE (3 Card Only) | QUANTITY OR LOADING (54-61) MAXIMUM | UNITS | QUALITY OR CONCENTRATION (46-53) MINIMUM (4 Card Only) | QUALITY OR CONCENTRATION (54-61) AVERAGE | QUALITY OR CONCENTRATION (54-61) MAXIMUM | UNITS | NO. EX (62-63) | FREQUENCY OF ANALYSIS (64-68) | SAMPLE TYPE (69-70) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ****** | ****** | ( ) | ****** | ****** | 64.3 | ( 15) OF | 0 | 99/99 | RC |
| | PERMIT REQUIREMENT | ****** | ****** | *** **** | | | 102 INST MX | DEG.F | | CONTINUOUS | RECORDR |
| OXIDANTS, TOTAL RESIDUAL 74044 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ****** | ****** | ( ) | ****** | ****** | 0.04 | ( 19) MG/L | 0 | 01/05 | G2 |
| | PERMIT REQUIREMENT | ****** | ****** | *** **** | | | 0.1 DAILY MX | MG/L | | WHEN DISCHR | GRAB-2 |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 160.7 | 223.2 | ( 03) MGD | ****** | ****** | ****** | ( ) | 0 | 99/99 | ES |
| | PERMIT REQUIREMENT | 447.0 300A AVG | 510.0 DAILY MX | MGD | | | ****** | *** **** | | CONTINUOUS | ESTIMA |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

E.S. KRAFT
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 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

E.S. Kraft

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

| TELEPHONE | | DATE | | |
|---|---|---|---|---|
| 508 | 746-7100 | 91 | 07 | 10 |
| AREA CODE | NUMBER | YEAR | MO | DAY |

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

PH SHALL NOT VARY MORE THAN 0.5 PH STANDARD UNITS FROM INTAKE WATER.
TEMP. SHALL AT NO TIME EXCEED A 32 DEGREE RISE OVER TEMP OF INTAKE WATER.

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

NAME BOSTON ED #1 PILGRIM PLANT

ADDRESS ROCKY HILL ROAD

RED #1

PLYMOUTH MA 02360

FACILITY

LOCATION

ATTN: E.S. KRAFT, PLANT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

(2-16) MA0003557 — PERMIT NUMBER

(17-19) 002 1 — DISCHARGE NUMBER

MAJOR (SUBR S) F - FINAL

CONDENSER BACKWASH

Form Approved. OMB No 2040-0004. Approval expires 6-30-91.

MONITORING PERIOD

| FROM YEAR | MO | DAY | TO YEAR | MO | DAY |
|---|---|---|---|---|---|
| 91 | 06 | 01 | 91 | 06 | 30 |
| (20-21) | (22-23) | (24-25) | (26-27) | (28-29) | (30-31) |

*** NO DISCHARGE ☒ ***

NOTE: Read instructions before completing this form.

| PARAMETER (32-37) | | (3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE | (54-61) MAXIMUM | UNITS | (4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM | (46-53) AVERAGE | (54-61) MAXIMUM | UNITS | NO. EX (62-63) | FREQUENCY OF ANALYSIS (64-68) | SAMPLE TYPE (69-70) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ****** | ****** | ( ) | ****** | ****** | no backwash | (15) oF | 0 | 99/99 | RC |
| | PERMIT REQUIREMENT | ****** | ****** | *** **** | | | 120 | DEG.F | | CONTINUOUS MONIT | CONDR |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ****** | no backwash | (03) MGD | ****** | ****** | ****** | ( ) | 0 | WH/DS | ES |
| | PERMIT REQUIREMENT | ****** | ****** | MGD | | | ****** | *** **** | | MEA ESTIMA DISCH | |
| | 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: E.S. KRAFT 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 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to $10,000 and/or maximum imprisonment of between 6 months and 5 years.)

E.S. Kraft, Jr.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

| TELEPHONE AREA CODE | NUMBER | DATE YEAR | MO | DAY |
|---|---|---|---|---|
| 508 | 746-7900 | 91 | 07 | 10 |

COMMENT 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 CONTINOUS HOURS. SEE PERMIT PAGE 7 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

RED #1

PLYMOUTH MA 02360

FACILITY

LOCATION

ATTN: E.S. KRAFT, PLANT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

# DISCHARGE MONITORING REPORT (DMR)

(2-16) PERMIT NUMBER: MA0003557

(17-19) DISCHARGE NUMBER: 003 A

MAJOR (SUBR S) F - FINAL INTAKE SCREEN WASH

Form Approved. OMB No. 2040-0004. Approval expires 6-30-91.

MONITORING PERIOD

| | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 91 | 06 | 01 | TO | 91 | 06 | 30 |
| | (20-21) | (22-23) | (24-25) | | (26-27) | (28-29) | (30-31) |

*** NO DISCHARGE | | ***

NOTE: Read instructions before completing this form.

| PARAMETER (32-37) | | (3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE | MAXIMUM | UNITS | (4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM | (54-61) AVERAGE | MAXIMUM | UNITS | NO. EX (62-65) | FREQUENCY OF ANALYSIS (66-68) | SAMPLE TYPE (69-70) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 9 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 0.036 | 0.210 | (03) MGD | ****** | ****** | ****** | ( ) | 0 | 01/01 | ES |
| | PERMIT REQUIREMENT | 0.336 30DA AVG | 2.02 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 | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER: E.S. KRAFT 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 USC § 1001 AND 33 USC § 1319. (Penalties under these statutes may include fines up to $10,000 and or minimum imprisonment of between 6 months and 5 years.)

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT: E.S. Kraft, Jr.

TELEPHONE: AREA CODE 508, NUMBER 746-7900

DATE: YEAR 91, MO 07, DAY 10

COMMENT 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 ADEQUATE TEMP. SUFFICIENTLY DISTAN FROM INTAKE STRUCTURES TO PREVENT REIMPINGEMENT.

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

LOCATION

ATTN: E.S. KRAFT, PLANT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
**DISCHARGE MONITORING REPORT (DMR)**

(2-16) MA0003557 — PERMIT NUMBER

(17-19) 010 A — DISCHARGE NUMBER

MAJOR
(SUBR S )
F - FINAL
SERVICE COOLING WATER

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MONITORING PERIOD

| FROM YEAR | MO | DAY | TO YEAR | MO | DAY |
|---|---|---|---|---|---|
| 91 | 06 | 01 | 91 | 06 | 30 |
| (20-21) | (22-23) | (24-25) | (26-27) | (28-29) | (30-31) |

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

| PARAMETER (32-37) | | (3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE | MAXIMUM | UNITS | (4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM | AVERAGE | (54-61) MAXIMUM | UNITS | NO. EX (62-63) | FREQUENCY OF ANALYSIS (64-68) | SAMPLE TYPE (69-70) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| OXIDANTS, TOTAL RESIDUAL 34044 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ****** | ****** | ( ) | ****** | 0.09 | 0.10 | (19) MG/L | 0 | 99/99 | RC |
| | PERMIT REQUIREMENT | ****** | ****** | **** **** | ****** | 0.25 30DA AVG | 0.5 DAILY MX | MG/L | CONTINUOUS | | CORDR |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 7.1 | ****** | (03) MGD | ****** | ****** | ****** | ( ) | 0 | 99/99 | ES |
| | PERMIT REQUIREMENT | 11.7 30DA AVG | ****** | MGD | ****** | ****** | ****** | **** **** | CONTINUOUS | | 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

E.S. KRAFT
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.)

E.S. Kraft Jr.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 508, NUMBER 746-7700

DATE: YEAR 91, MO 07, DAY 10

COMMENT 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 CURVE 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

LOCATION

ATTN: E.S. KRAFT, PLANT MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

**DISCHARGE MONITORING REPORT (DMR)**

| (2-16) PERMIT NUMBER | (17-19) DISCHARGE NUMBER |
|---|---|
| MA0003557 | 011 A |

MAJOR
(SUBR S )
F - FINAL

Form Approved.
OMB No. 2040-0004.
Approval expires 6-30-91.

MAKE UP WATER AND DEMINERALIZE

| MONITORING PERIOD | YEAR | MO | DAY | | YEAR | MO | DAY |
|---|---|---|---|---|---|---|---|
| FROM | 91 | 06 | 01 | TO | 91 | 06 | 30 |
| | (20-21) | (22-23) | (24-25) | | (26-27) | (28-29) | (30-31) |

*** NO DISCHARGE |__| ***

NOTE: Read instructions before completing this form.

| PARAMETER (32-37) | | (3 Card Only) (46-53) QUANTITY OR LOADING (54-61) AVERAGE | MAXIMUM | UNITS | (4 Card Only) (38-45) QUALITY OR CONCENTRATION (46-53) MINIMUM | (54-61) AVERAGE | MAXIMUM | UNITS | NO. EX (62-63) | FREQUENCY OF ANALYSIS (64-68) | SAMPLE TYPE (69-70) |
|---|---|---|---|---|---|---|---|---|---|---|---|
| PH | SAMPLE MEASUREMENT | ****** | ****** | ( ) | 7.6 | ****** | 7.9 | ( 12) SU | 0 | 01/BA | GR |
| 00400 1 0 0 EFFLUENT GROSS VALUE | PERMIT REQUIREMENT | ****** | ****** | *** **** | | | | SU | | ONCE/BATCH | GRAB |
| SOLIDS, TOTAL SUSPENDED 00530 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | ****** | ****** | ( ) | ****** | 160.1 | 226.6 | ( 19) MG/L | 2* | 01/BA | GR |
| | PERMIT REQUIREMENT | ****** | ****** | *** **** | | 30DA AVG | DAILY MX | MG/L | | ONCE/BATCH | GRAB |
| FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE | SAMPLE MEASUREMENT | 0.0004 | 0.015 | ( 03) MGD | ****** | ****** | ****** | ( ) *** **** | 0 | WH/DS | ES |
| | PERMIT REQUIREMENT | 0.013 | 0.04 | MGD | | 30DA AVG | DAILY MX | | | ONCE/DISCHG | ESTIMA |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |
| | SAMPLE MEASUREMENT | | | | | | | | | | |
| | PERMIT REQUIREMENT | | | | | | | | | | |

| NAME/TITLE PRINCIPAL EXECUTIVE OFFICER | | | TELEPHONE | | DATE | | |
|---|---|---|---|---|---|---|---|
| E.S. KRAFT PLANT MANAGER | 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 USC § 1001 AND 33 USC § 1319 (Penalties under these statutes may include fines up to $10,000 and or maximum imprisonment of between 6 months and 5 years) | E.S. Kraft, Jr. | 508 | 746-7900 | 91 | 07 | 10 |
| TYPED OR PRINTED | | SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT | AREA CODE | NUMBER | YEAR | MO | DAY |

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

* SEE SUMMARY NOTES # II. F.

FORMERLY DESIGNATED DISCHARGE 001B. SAMPLES TAKEN IN COMPLIANCE WITH THE MONITORING REQUIREMENTS SPECIFIED ABOVE SHALL BE TAKEN AT A POINT PRIOR TO MIXING WITH ANY OTHER STREAM.