



BOSTON EDISON
 25 Braintree Hill Office Park
 Braintree, Massachusetts 02184

E. J. Wagner
 Vice President
 Nuclear Engineering

January 21, 1991
 BECo 5.91-007

NPDES Program Operations Section (WCP-2109)
 Environmental Protection Agency
 P. O. Box 8127
 Boston, MA 02114

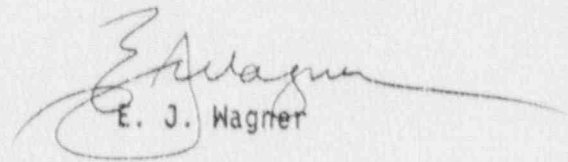
Massachusetts Division of Water Pollution Control
 Lakeville Hospital
 Lakeville, MA 02347

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 October 1, 1990 through December 31, 1990.


 E. J. Wagner

RDA/jcp/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

ATTACHMENT 1 TO BECO LETTER 5.91-007

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 1, 1990 through December 31, 1990.

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
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 (0.25 ppm daily average TRC and 0.50 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. Via USEPA letter to Boston Company dated December 1, 1983, Pilgrim Station has been given permission to increase its Service Cooling Water (010) flow rate from 11.7 million gallons/day (MGD) to 19.4 MGD.

- E. Thirty day average, intake screen wash (003) flow periodically exceeds Permit levels (0.336 MGD) because of continuous screen washing required for removal of heavy debris loads, caused by coastal storms. A letter requesting an increase in this Permit limit from 0.336 MGD to 2.02 MGD was sent to T. E. Landry of the USEPA Compliance Branch (BECO Letter 5.84.048) on December 13, 1984. The increase was verbally approved by the USEPA and will be incorporated in the next renewal issuance of the NPDES permit.
- F. Intake traveling water screens were operated without dechlorination pumps operating on 10/29 and 12/3. There was one occurrence on each date unless otherwise noted.
- G. The following quantities of sawdust were applied to seek and seal PNPS condenser leaks: October, 80 pounds; December, 240 pounds.
- H. On October 9, 1990 a telephone call (BECO Telecon 4.90.016) was made to the USEPA to inform them of a discharge, residual chlorine concentration violation at 0905. The discharge chlorine limit of 0.1 ppm was exceeded for 15 minutes with a maximum of 0.47 ppm being recorded.
- I. Pilgrim Station Marine Ecology Semi-Annual Report No. 36 was sent to the USEPA and Mass. Div. of Water Pollution Control on October 29, 1990 (BECO Letter 5.90.054).
- J. On December 3, 1990 a telephone call (BECO Telecon 4.90.019) was made to the USEPA to notify them of the discharge of approximately 12,000 gallons of water containing 113 ppm of suspended solids (Permit limit-100 ppm), at a pH of 7.2, on December 1, 1990.
- K. On December 10, 1990 a telephone call (BECO Telecon 4.90.021) was made to the USEPA to inform them of a discharge, residual chlorine concentration violation between 0850 and 0935. The discharge chlorine limit of 0.1 ppm was exceeded for a total of 15 minutes during this period with a maximum of 0.23 ppm being recorded.
- L. The Pilgrim Station 1991 Environmental Monitoring, Thermal Discharge Fish Surveillance, and Dissolved Nitrogen Saturation Reduction Program and Plans were submitted to the USEPA and Mass. Div. of Water Pollution Control on December 21, 1990 in conformance with the NPDES Permit #MA0003557 (BECO Letter 5.90.068).

ATTACHMENT 2 TO BECO LETTER 5.91-007

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

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

MA0003557

PERMIT NUMBER

001 1

DISCHARGE NUMBER

F - FINAL
 COOLING WATERS

Form Approved
 OMB No. 2040-0004
 Approval expires 9-30-85

MONITORING PERIOD

FROM YEAR 90 MO 10 DAY 01 TO YEAR 90 MO 10 DAY 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

MAJOR (SUBR 5)

NOTE: Read instructions before completing this form.

ATTN: ROY ANDERSON, PLANT MANAGER

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (46-51)			QUALITY OR CONCENTRATION (46-51)			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	*****	*****	*****		72.4	77.9	82.1		0	99/99 CN
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	*****	*****	****	****	REPORT	REPORT	102 INST MX	DEG. F		CONTIN HOUS
EFFLUENT GROSS VALUE CHLORINE, TOTAL RESIDUAL 50060 1 0 0	*****	*****	****	****	*****	*****	*****		0	99/99 CN
EFFLUENT GROSS VALUE	446.4	446.4			*****	*****	*****			CONTIN HOUS
	447.0	510.0	MGD		*****	*****	*****			CONTIN HOUS
	300A AVG	DAILY MX			*****	*****	*****			CONTIN HOUS
	*****	*****	****	****	0.01	0.047	0.22		1	01/05 G2
	*****	*****	****	****	REPORT	REPORT	1 DAILY MX	MG/L		ONCE/ GRAB-2 DISCHG
	*****	*****	****	****						

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <u>E.S. KRAFT</u> <u>PLANT MANAGER</u>	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 3 years.	TELEPHONE	DATE			
		<u>508 746-7900</u>	<u>91</u>	<u>01</u>	<u>14</u>	
TYPED OR PRINTED	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <u>E.S. Kraft, Jr.</u>	AREA CODE	NUMBER	YEAR	MO	DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) *** SEE SUMMARY NOTES * II. H.**

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.

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

F - FINAL
COOLING WATERS

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
NAME BOSTON ED #1 PILGRIM PLANT
ADDRESS ROCKY HILL ROAD
RFD #1
PLYMOUTH
FACILITY MA 02360

PERMIT NUMBER MA000357
DISCHARGE NUMBER 001 1

MONITORING PERIOD
FROM 90 11 01 TO 90 11 30
(30.23) (22.23) (24.23) (17.19)

MAJOR (SUBR S)
NOTE: Read instructions before completing this form.

PARAMETER (32-37)	QUANTITY OR LOADING (46-53)			QUALITY OR CONCENTRATION (54-61)			NO. EX (62-69)	FREQUENCY OF ANALYSIS (63-68)	SAMPLE TYPE (69-70)
	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS (46-53)	MINIMUM (58-65)	AVERAGE (46-53)	MAXIMUM (54-61)			
TEMPERATURE, WATER	*****	*****		64.4	73.1	77.6	0	9/99	CN
DEG. FAHRENHEIT	*****	*****		REPORT	REPORT	102	0	CONTINUOUS	
00011 1 0 0	*****	*****	****	*****	*****	*****	0	9/99	CN
EFFLUENT GROSS VALUE	444.5	446.4		*****	*****	*****	0	CONTINUOUS	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	467.0	510.0	MGD	*****	*****	*****	0	CONTINUOUS	
50050 1 0 0	30DA AVE	DAILY MX		0.01	0.036	0.07	0	01/DS	62
EFFLUENT GROSS VALUE	*****	*****		REPORT	REPORT	.1	0	ONCE /	GRAB-2
CHLORINE, TOTAL	*****	*****	****	*****	*****	*****	0	DISC	
RESIDUAL	*****	*****	****	*****	*****	*****	0	DISC	
50060 1 0 0	*****	*****	****	*****	*****	*****	0	DISC	
EFFLUENT GROSS VALUE	*****	*****	****	*****	*****	*****	0	DISC	

ED. Kraft, Jr.
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

508 746-7900
AREA NUMBER

91 01 14
DATE

E.S. KRAFT
PLANT MANAGER

TYPED OR PRINTED

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)

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

Form Approved OMB No. 2040-0004 Approval expires 9-30-85

NAME BOSTON ED #1 PILGRIM PLANT
 ADDRESS ROCKY HILL ROAD
RFD #1
PLYMOUTH MA 02360

MA0003557 PERMIT NUMBER
 001 1 DISCHARGE NUMBER

F - FINAL COOLING WATERS

FACILITY _____
 LOCATION _____

MONITORING PERIOD
 FROM 90 12 01 TO 90 12 31
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

MAJOR (SUBR S)

NOTE: Read instructions before completing this form.

ATTN: ROY ANDERSON, PLANT MANAGER

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (46-53)			QUALITY OR CONCENTRATION (46-53)			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	*****	*****		63.3	68.2	73.1			0 99/99 CN
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	PERMIT REQUIREMENT	*****	*****	****	REPORT	REPORT	102			CONTINCONTIN UOUS
EFFLUENT GROSS VALUE CHLORINE, TOTAL RESIDUAL 50060 1 0 3	SAMPLE MEASUREMENT	446.1	446.4		*****	*****	*****			0 99/99 CN
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	447.0	510.0	MGD	*****	*****	*****	****		CONTINCONTIN UOUS
	SAMPLE MEASUREMENT	*****	*****		0.00	0.014	0.09			1* 01/05 G2
	PERMIT REQUIREMENT	*****	*****	****	REPORT	REPORT	1			ONCE/ GRAB-2 DISCHG
	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.

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

TELEPHONE
508 746-7908
 DATE
91 01 14

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

*SEE SUMMARY NOTES *II. K.

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)

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

Form Approved OMB No. 2040-0004 Approval expires 9-30-85

NAME BOSTON ED #1 PILGRIM PLANT
 ADDRESS ROCKY HILL ROAD
RFD #1
PLYMOUTH MA 02360

MA0003557 PERMIT NUMBER
 002 1 DISCHARGE NUMBER

F - FINAL
 CONDENSER BACKWASH

FACILITY _____
 LOCATION _____
 ATTN: ROY ANDERSON, PLANT MANAGER

MONITORING PERIOD
 FROM YEAR 90 MO 10 DAY 01 TO YEAR 90 MO 10 DAY 31

MAJOR (SUBR S)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (4 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-43)			QUALITY OR CONCENTRATION (5 Card Only) (45-53)			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	*****	*****			<i>no backwash</i>						0	99/99	CN
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	*****	*****	****	****	REPORT DAILY MN	REPORT DAILY MX	120	DEG. F			0	01/05	ES
EFFLUENT GROSS VALUE	<i>no backwash</i>	REPORT	255.0	DAILY MX MGD	*****	*****	*****	****					ESTIMA

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 1 year.

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

TELEPHONE _____ DATE _____
 508 746-7700
 AREA CODE NUMBER YEAR MO DAY
 91 01 14

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 CONTINUOUS 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**
RFD #1
PLYMOUTH MA 02360

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

MA0003557
 PERMIT NUMBER

002 1
 DISCHARGE NUMBER

F - FINAL
 CONDENSER BACKWASH

Form Approved
 OMB No. 2040-0004
 Approval expires 9-30-85

FACILITY
 LOCATION
 ATTN: **ROY ANDERSON, PLANT MANAGER**

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	90	11	01		90	11	30
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MAJOR (SUBR S)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (46-51)			QUALITY OR CONCENTRATION (46-51)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (46-51)	MAXIMUM (46-51)	UNITS (46-51)	MINIMUM (46-51)	AVERAGE (46-51)	MAXIMUM (46-51)			
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 0	*****	*****			95.4	99.2	103.0	0	99/99	CN
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	*****	*****	****		REPORT DAILY MN	REPORT DAILY MX	120 DEG.F	0	01/DS	ES
EFFLUENT GROSS VALUE	REPORT	255.0	DAILY MX	MGD	*****	*****	*****	****		ESTINA
	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 § 1031 AND 33 USC § 1319). (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of not over 6 months and 5 years.)

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

TELEPHONE
508 746-7900
 AREA CODE NUMBER
 DATE
91 01 14
 YEAR MO DAY

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 CONTINUOUS HOURS. SEE PERMIT PAGE 7 FOR CONDITIONS REGARDING THE FREQUENCY OF DISCHARGE.

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

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

Form Approved OMB No. 2040-0004 Approval expires 9-30-85

NAME BOSTON EQ #1 PILGRIM PLANT

ADDRESS ROCKY HILL ROAD

RFD #1

PLYMOUTH MA 02360

FACILITY _____

LOCATION _____

ATTN: ROY ANDERSON, PLANT MANAGER

MA0003557 PERMIT NUMBER

002 1 DISCHARGE NUMBER

F - FINAL CONDENSER BACKWASH

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	90	12	01		90	12	31

MAJOR (SUBRS)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (1 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)			UNITS (54-61)	NO. EX (67-69)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 0	*****	*****			<i>nonthermal backwash</i>				0	99/99	CN
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	*****	*****	****	****	REPORT DAILY RM	REPORT	120 DAILY RM	DFG.F		CONTINUOUS	
EFFLUENT GROSS VALUE	24.4	24.4			*****	*****	*****		0	01/DS	ES
EFFLUENT GROSS VALUE	REPORT	255.0 DAILY RM	MGD		*****	*****	*****	****			ESTINA
	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

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 \$100,000 and/or maximum imprisonment of between 6 months and 5 years.

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

TELEPHONE NUMBER
508 746-7900

DATE
91 01 14

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 CONTINUOUS HOURS. SEE PERMIT PAGE 7 FOR CONDITIONS REGARDING THE FREQUENCY OF DISCHARGE.

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

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

Form Approved OMB No. 2040-0004 Approval expires 9-30-85

NAME BOSTON ED #1 PILGRIM PLANT
 ADDRESS ROCKY HILL ROAD
RFD #1
PLYMOUTH MA 02360

MA0003537 (2-10) PERMIT NUMBER
003 A (17-19) DISCHARGE NUMBER

F - FINAL
 INTAKE SCREEN WASH

FACILITY _____
 LOCATION _____

MONITORING PERIOD
 FROM YEAR 90 MO 10 DAY 01 TO YEAR 90 MO 10 DAY 31
(20-31) (2-7-79) (28-31) (26-27) (7-8-79) (29-31)

MAJOR (SUBR S) _____
 NOTE: Read instructions before completing this form

ATTN: ROY ANDERSON, PLANT MANAGER

PARAMETER (32-37)	SAMPLE MEASUREMENT (46-52)	QUANTITY OR LOADING (54-61)			QUALITY OR CONCENTRATION (4-31)				NO. EX (62-64)	FREQUENCY OF ANALYSIS (65-68)	SAMPLE TYPE (69-71)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW IN CONDUIT OR THRU TREATMENT PLANT		0.439	1.85		*****	*****	*****				
50050 1 0 0	PERMIT REQUIREMENT	0.335	2.02		*****	*****	*****				
EFFLUENT GROSS VALUE				MGD							
	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.)

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

TELEPHONE NUMBER 508 746-7900
 DATE YEAR 91 MO 01 DAY 14

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) SEE SUMMARY NOTE # II. E.

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. EFFICIENCY DISTAN FROM INTAKE STRUCTURES TO PREVENT REIMPINGEMENT.

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

(12-79)
F - FINAL
INTAKE SCREEN WASH

PERM NAME/ADDRESS (Include Facility Name/Location if different)
NAME BOSTON ED #5 PILGRIM PLANT
ADDRESS ROCKY HILL ROAD
RD #1
PLYMOUTH MA 02360

MA0003557 PERMIT NUMBER
003 A DISCHARGE NUMBER

MONITORING PERIOD
FROM YEAR 90 MO 11 DAY 01 TO YEAR 90 MO 11 DAY 30
(26-27) (22-23) (24-25) (26-27) (28-29) (30-31)

MAJOR (SUBR S)
NOTE: Read instructions before completing this form.

PARAMETER (12-27)	AVERAGE (46-53)			MAXIMUM (54-61)			MINIMUM (58-65)			QUALITY OR CONCENTRATION (59-67)			NO. EX (62-69)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)
	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS				
FLOW IN CONDUIT OR THRU TREATMENT PLANT	0.407	1.60		*****	*****		*****	*****	*****	*****		*****	1*	99/89 ES	
50050 1 0 0 EFFLUENT GROSS VALUE	0.336	2.02	DAILY MI MGD	*****	*****		*****	*****	*****	*****		*****		CONTINUED	
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
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
E. S. Kraft, Jr.
508 746-7900

TELEPHONE
DATE
91 01 14

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
SEE SUMMARY NOTES # II, E.
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 REIMPINGEMENT.
EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED (REPLACES EPA FORM 1-60 WHICH MAY NOT BE USED)

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

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if different)
 NAME BOSTON ED #1 PILGRIM PLANT
 ADDRESS ROCKY HILL ROAD
RFD #1
PLYMOUTH MA 02360

F - FINAL
 INTAKE SCREEN WASH

PERMIT NUMBER
MA0003557

DISCHARGE NUMBER
003 A

MONITORING PERIOD
 YEAR MO DAY YEAR MO DAY
 FROM 90 12 01 TO 90 12 31

MAJOR (SUBR S)
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	QUANTITY OR LOADING (54-61)			QUALITY OR CONCENTRATION (54-61)			NO. EX. ANALYSIS (62-63)	FREQUENCY OF ANALYSIS (62-63)	SAMPLE TYPE (69-70)
	AVERAGE (46-51)	MAXIMUM (46-51)	UNITS (46-51)	MINIMUM (58-63)	AVERAGE (46-51)	MAXIMUM (54-61)			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.194	0.504		*****	*****	*****	0	99/99	ES
50050 T O O	0.336	2.02		*****	*****	*****		CONTINUED	
EFFLUENT GROSS VALUE	300A 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									
SAMPLE MEASUREMENT									
PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
E.S. KRAFT
PLANT MANAGER

SIGNATURE OF PERMITS PAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
E.S. Kraft

TELEPHONE
 AREA CODE NUMBER
508 746-7900

DATE
 YEAR NO DAY
91 01 14

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 SILLFISH AND OTHER ORGANISMS COLLECTED OR TRAPPED ON INTAKE SCREEN SHOULD BE RETURNED TO WATER OF AMBIENT TEMP. SUFFICIENTLY DISIAN FORM INTAKE STRUCTURES TO PREVENT REIMPINGEMENT.
 EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)
DISCHARGE MONITORING REPORT (DMR)
(7-79)

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

NAME BOSTON ED #1 PILGRIM PLANT
ADDRESS ROCKY HILL ROAD
RFD #1
PLYMOUTH
MA 02360

F - FINAL
SERVICE COOLING WATER

MA000357
PERMIT NUMBER

010 A
DISCHARGE NUMBER

LOCATION
CITY: ROY ANDERSON, PLANT MANAGER
STATE: MA

MAJOR (SUBR S)
NOTE: Read instructions before completing this form.

MONITORING PERIOD
FROM 90 10 01 TO 90 10 31
YEAR MO DAY YEAR MO DAY

PARAMETER (32-37)	AVERAGE (56-57)			MINIMUM (58-61)			MAXIMUM (54-61)			UNITS	FREQUENCY OF ANALYSIS (62-68)	SAMPLE TYPE (69-70)
	AVERAGE (56-57)	MINIMUM (58-61)	MAXIMUM (54-61)	AVERAGE (65-67)	MINIMUM (62-64)	MAXIMUM (63-65)	UNITS					
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	9.4	11.8	REPORT	*****	*****	*****	*****	*****	MGD	1	99/99 DA	
50050 1 0 0 EFFLUENT GROSS VALUE	11.7	REPORT	*****	*****	*****	*****	*****	*****	MGD	CONTINUOUS	DAILY	
CHLORINE, TOTAL RESIDUAL	*****	0.05	0.24	0.66	*****	*****	*****	*****	MG/L	7	99/99 DA	
50060 1 0 0 EFFLUENT GROSS VALUE	*****	REPORT	0.25	0.5	*****	*****	*****	*****	MG/L	CONTINUOUS	DAILY	
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

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 CURVES AND OPERATIONAL HOURS. SEE SUMMARY NOTES #I.C.

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

AREA CODE
508

NUMBER
746-7900

TELEPHONE

DATE
91 01 14

YEAR MO DAY

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

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

Form Approved OMB No. 2040-0004 Approval expires 9-30-85

NAME BOSTON ED #1 PILGRIM PLANT

(2-16)

(17-19)

F - FINAL SERVICE COOLING WATER

ADDRESS ROCKY HILL ROAD

MAC003557

010 A

PERMIT NUMBER

DISCHARGE NUMBER

RFD #1

PLYMOUTH

MA 02360

FACILITY

LOCATION

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	<u>90</u>	<u>11</u>	<u>01</u>		<u>90</u>	<u>11</u>	<u>30</u>
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MAJOR (SUBR 5)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (46-53)			QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (66-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		7.7	10.8		*****	*****	*****			0	99/99 DA
50050 1 0 0 EFFLUENT GROSS VALUE CHLORINE, TOTAL RESIDUAL	PERMIT REQUIREMENT	11.7	REPORT	MGD	*****	*****	*****	****			CONTIN DAILY MONS
50060 1 0 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****		0.06	0.18	0.31			1	99/99 DA
	PERMIT REQUIREMENT	*****	*****	****	REPORT	0.25	0.5				CONTIN DAILY MONS
						30DA AVG	DAILY MX	MG/L			
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAM./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 508 746-7900
DATE 91 01 14
AREA CODE NUMBER YEAR MO DAY

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

* SEE SUMMARY NOTES # II.C.

CONTINUOUS CHLORINATION OF SERVICE WATER SYSTEM MAY BE USED FOR MACROINVERTEBRATE CONTROL. FLOW RATE SHALL BE ESTIMATED FROM PUMP CAPACITY CURVES AND OPERATIONAL HOURS.

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

F - FINAL
SERVICE COOLING WATER

MA000357
PERMIT NUMBER

010 A
DISCHARGE NUMBER

MONITORING PERIOD
YEAR MO DAY YEAR MO DAY
FROM 90 12 01 TO 90 12 31

MA 02360

MAJOR (SUBS)
NOTE: Read instructions before completing this form.

PARAMETER (22-37)	AVERAGE (46-53)		MINIMUM (48-45)		MAXIMUM (54-61)		UNITS	NO. OF ANALYSES (62-69)	FREQUENCY OF ANALYSES (69-70)	SAMPLE TYPE (69-70)
	MAXIMUM	MINIMUM	AVERAGE	MAXIMUM	UNITS					
FLOW IN CONDUIT OR THRU TREATMENT PLANT	5.8	7.9	*****	*****	*****	*****	MGD	0	99/99	DA
50050 1 0 0 EFFLUENT GROSS VALUE	11.7	REPORT	*****	*****	*****	*****	MGD	*****	CONTINUEDAILY	*****
CHLORINE, TOTAL RESIDUAL	*****	0.05	0.23	0.58	*****	*****	MG/L	9	99/99	DA
50060 1 0 0 EFFLUENT GROSS VALUE	*****	REPORT	0.25	0.5	0.5	0.5	MG/L	*****	CONTINUEDAILY	*****
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 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT E.S. Kraft, Jr.										
COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here) *SEE SUMMARY NOTES # II-C.										
								TELEPHONE 508 746-7900		DATE 91 01 14
								AREA CODE 508		NUMBER 746-7900

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

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

Form Approved
 OMB No. 2040-0004
 Approval expires 9-30-85

MA0003557 PERMIT NUMBER
 011 A DISCHARGE NUMBER

F - FINAL
 MAKE UP WATER AND DEMINERALIZE

FACILITY _____
 LOCATION _____
 ATTN: **ROY ANDERSON, PLANT MANAGER**

MONITORING PERIOD						
YEAR	MO	DAY	TO	YEAR	MO	DAY
90	10	01	TO	90	10	31
(20-22)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MAJOR (SUBR S)
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	QUANTITY OR LOADING (1 Card Only) (46-51)			QUALITY OR CONCENTRATION (1 Card Only) (46-51)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (66-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
PH		*****	*****		6.7	*****	6.7		0 01/DS	GR
00400 1 0 0 EFFLUENT GROSS VALUE		*****	*****	****	6.1 MINIMUM	*****	8.4 MAXIMUM			SRAB
SOLIDS, TOTAL SUSPENDED		*****	*****		*****	0.48	15.1		0 01/DS	GR
00530 1 0 0 EFFLUENT GROSS VALUE		*****	*****	****	*****	30 30DA AVG	100 DAILY MX			GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.0003	0.011		*****	*****	*****		0 01/DS	GR
50050 1 0 0 EFFLUENT GROSS VALUE		0.015 30DA AVG	0.06 DAILY MX	MGD	*****	*****	*****			ESTIMA

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 \$100,000 and/or maximum imprisonment of five (5) months and 3 years.

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

TELEPHONE: 508 746-7900
 DATE: 91 01 14
 AREA CODE NUMBER YEAR NO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 FORMERLY DESIGNATED DISCHARGE 0018. SAMPLES TAKEN IN COMPLIANCE WITH THE MONITORING REQUIREMENTS SPECIFIED ABOVE SHALL BE TAKEN AT A POINT PRIOR TO MIXING WITH ANY OTHER STREAM. SEE PG 11 OF PERMIT FOR BIOLOGICAL MONITORING REQUIREMENTS.

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

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

Form Approved OMB No. 2040-0004 Approval expires 9-30-85

NAME BOSTON ED #1 PILGRIM PLANT
 ADDRESS ROCKY HILL ROAD
RFD #1
PLYMOUTH MA 02360

PERMIT NUMBER MA0003557 DISCHARGE NUMBER 011 A

F - FINAL
 MAKE UP WATER AND DEMINERALIZE

FACILITY _____ LOCATION _____

MONITORING PERIOD
 FROM YEAR 90 MO 11 DAY 01 TO YEAR 90 MO 11 DAY 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

MAJOR (SUBR S) _____
 NOTE: Read instructions before completing this form.

ATTN: ROY ANDERSON, PLANT MANAGER

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (38-51)			QUALITY OR CONCENTRATION (54-67)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
PH	*****	*****			7.2	*****	7.6		0 01/05	GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****		6.1	*****	8.4			GRAB
SOLIDS, TOTAL SUSPENDED	*****	*****			*****	0.79	36.2		0 01/05	GR
00530 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****		*****	30	100			GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	0.0004	0.014			*****	*****	*****		0 01/05	GR
50050 1 0 0 EFFLUENT GROSS VALUE	0.015	0.06	****		*****	*****	*****			ESTIMA
		30DA AVG	DAILY MX	MGD						

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER <u>E.S. KRAFT</u> <u>PLANT MANAGER</u> 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 \$100,000 and/or maximum imprisonment of between 6 months and 5 years.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT <u>E.S. Kraft, Jr.</u>	TELEPHONE	DATE		
			<u>508-746-7900</u> AREA CODE NUMBER	YEAR	MO	DAY

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

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. SEE PG 11 OF PERMIT FOR BIOLOGICAL MONITORING REQUIREMENTS.

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

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

Form Approved OMB No. 2040-0004 Approval expires 9-30-85

NAME BOSTON ED #1 PILGRIM PLANT
 ADDRESS ROCKY HILL ROAD
RFD #1
PLYMOUTH MA 02360

MA0003557
 PERMIT NUMBER

011 A
 DISCHARGE NUMBER

F - FINAL
 MAKE UP WATER AND DEMINERALIZE

FACILITY _____
 LOCATION _____
 ATTN: ROY ANDERSON, PLANT MANAGER

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	90	12	01		90	12	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MAJOR (SUBR 5)
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (45-53)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
PH	*****	*****			6.8	*****	6.8		0	01/05 GR
00400 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	****	6.1 MINIMUM	*****	8.4 MAXIMUM	SIU		GRAB
SOLIDS, TOTAL SUSPENDED	*****	*****			*****	20.2	20.2		1	01/05 GR
00530 1 0 0 EFFLUENT GROSS VALUE	*****	*****	****	****	*****	30 30DA AVE	100 DAILY MX	MG/L		GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	*****	0.0003	0.011		*****	*****	*****		0	01/05 GR
50050 1 0 0 EFFLUENT GROSS VALUE	*****	0.015 30DA AVE	0.06 DAILY MX	MGD	*****	*****	*****	****		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 \$20,000 and/or maximum imprisonment of between 6 months and 3 years.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT
Ed Kraft, Jr.

TELEPHONE
508 746-7900
 AREA CODE NUMBER
 DATE
91 01 14
 YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 *SEE SUMMARY NOTES # II. J.
 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. SEE PG 11 OF PERMIT FOR BIOLOGICAL MONITORING REQUIREMENTS.