Attachment 1 of BECo Letter 88-015

SUMMARY

PILGRIM I DISCHARGE MONITORING REPORT

In accordance with the Federal Clean Water Act, amended (33USC 1251 Et. Seg: the "CWA"), and the Massachusetts Clean Water Act, as amended (M.G.L., C21, 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, 1987 - December 31, 1987.

I. Discharge Points Covered in this Report

Discharge Point	Discharge Identification
001	Condenser Cooling Water
002	Condenser Backwash and Slime 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 flow 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 temperature at points 001 and 002 is 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), primarily because of the number of service water pumps in operation. Chlorine levels are lowered as a corrective measure although the dilution provided by the circulating water flow keeps total residual chlorine concentrations discharged to Cape Cod Bay below 0.1 ppm.

D. Via USEPA letter to Boston Edison 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.

8802040009 871231
PDR ADOCK 05000293
S PDR

IE48 1/1

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.

F. Intake traveling water screens were operated without dechlorination pumps operating on 10/10, 10/22 and 10/19(2). There was one occurrence on each date unless otherwise noted.

G. Pilgrim Station Marine Ecology Semi-Annual Report #30 was sent to the USEPA and Mass. Division of Water Pollution Control (DWPC) on October 30, 1987, as required by the NPDES Permit (BECo Letters 5.87.067 and 5.87.068).

H. The Pilgrim Station 1988 Environmental Monitoring, Thermal Discharge Fish Surveillance, and Dissolved Nitrogen Saturation Reduction Programs and Plans were submitted to the USEPA and Mass. DWPC on December 30, 1987 in conformance with the NPDES Permit (BECo Letters 5.87.084 and 5.87.085).

I. On October 14, 1987 a telecon (BECo Telecon 4.87.097) was conducted with the USEPA to obtain approval to discharge approximately 7,000 gallons of water from a fire water storage tank to Cape Cod Bay, with the dilution of one circulating seawater pump. The discharge was necessitated to repair a leak in the tank's valve pit and contained 22 ppm of nitrites.

J. A November 20, 1987 telecon (BECo Telecon 4.87.130) was made to the USEPA to notify them that the PNPS discharge chlorine (TRC) concentration exceeded NPDES Permit limits (0.1 ppm) on that date. The TRC discharge excussion lasted approximately 1/2 hour and peaked at a concentration of 1.4 ppm. Circulating water system chlorination was suspended to investigate the problem.

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

NAME

ADDRESS

FACILITY

LOCATION

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

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

(2-16) PERMIT NUMBER

(17-19) DISCHARGE NUMBER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	84	10	01	TO	84	10	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

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) (18-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE, WATER DEG. FAHRENHEIT (00010 1 0)	SAMPLE MEASUREMENT	******	******		52.1	53.0	53.9		0		
	PERMIT REQUIREMENT	******	******	*** ****	******	REPORT	REPORT	DEG.F		CONTIN	CONTIN
FLOW, IN CONDUIT OR THRU TREATMENT PLANT (50050 1 0) MILLION GALLONS PER DAY (03) VALUE	SAMPLE MEASUREMENT	225.1	279.0		******	******	******		0		
	PERMIT REQUIREMENT	******	******	MGD	******	******	******	*** ****		CONTIN	CONTIN
CHLORINE, TOTAL RESIDUAL (50060 1 0) MILLIGRAMS PER LITER (19) VALUE	SAMPLE MEASUREMENT	******	******		0.011	0.004	0.060		0		
	PERMIT REQUIREMENT	******	******	*** ****	******	REPORT	REPORT	MG/L		ONCE/QUAR	GRAB-2 HRS
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER			TELEPHONE		DATE		
K.P. ROBERTS STATION 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.)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	617	746-7800	1	10	85
TYPED OR PRINTED			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 33 DEGREE RISE OVER TEMP OF INTAKE WATER.

EPA Form 3320-1 (Rev. 3-76) (Previous editions may be used.) (DUPLICATE ALL PAGES; PAGE TWO WHICH MAY NOT BE USED.) 00250/122286-1502 PAGE 1 OF

NAME BOSTON ED #1 PILGRIM PLANT

ADDRESS ROCKY HILL ROAD
RFD #1
PLYMOUTH MA 02360

FACILITY

LOCATION

ATTN: C.J. MATHIS, STATION MANAGER

(30) PERMIT NUMBER	(31) DISCHARGE NUMBER
MA0003557	001 1

F.T FINAL
COOLING WATERS

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	11	01	TO	87	11	30
	(25-27)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MAJOR (SUBR S)
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) (18-45) QUALITY OR CONCENTRATION (46-53) MINIMUM	AVERAGE	MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		46.9	47.7	48.9		0		
	PERMIT REQUIREMENT	******	******	*** ****				DEG.F			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	218.9	223.2		******	******	******		0		
	PERMIT REQUIREMENT	462.5 30DA AVG	1387.5 DAILY MX	MGD				*** ****			
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		0.01	0.01	0.20		1	SEE SUMMARY NOTES # II. J.	
	PERMIT REQUIREMENT	******	******	*** ****		REPORT	1 DAILY MX	MG/L		2/MO GRAB SAMPLE	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER		TELEPHONE		DATE		
K.P. ROBERTS STATION 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 $10,000 and/or maximum imprisonment of between 6 months and 5 years.)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT	617 AREA CODE	746-7900 NUMBER	1 YEAR	18 MO	88 DAY
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 27 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

RFD #1

PLYMOUTH MA 02360

FACILITY

LOCATION

ATTN: C.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT (DMR)

MA0003557 — PERMIT NUMBER (1-10)

001 1 — DISCHARGE NUMBER (11-12)

FORM FINAL

COOLING WATERS

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	12	01	TO	87	12	31
	(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)		QUANTITY OR LOADING (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	QUALITY OR CONCENTRATION (4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) 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 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		41.3	42.6	43.6	DEG.F	0		
	PERMIT REQUIREMENT	******	******	*** ****							
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	213.3	446.4		******	******	******	*** ****	0		
	PERMIT REQUIREMENT	447.0 30DA AVG	510.0 DAILY MX	MGD						CONTINUOUS	
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		0.0	0.0	0.0		0		
	PERMIT REQUIREMENT	******	******	*** ****				MG/L		GRAB-2 HRS	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

K.P. ROBERTS
STATION 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: AREA CODE 617 — NUMBER 746-7900

DATE: YEAR 1 — MO 18 — DAY 88

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

TEMP SHALL NOT VARY MORE THAN 0.5 DEGREES FROM INTAKE WATER.
TEMP. SHALL BE NO MORE THAN 4 DEGREES ABOVE WATER TEMP OF INTAKE WATER.

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED (REPLACES EPA FORM Y-40 WHICH MAY NOT BE USED.)

00252/122286-1502

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: C.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT (DMR)

(7-15) MA0003557 PERMIT NUMBER

(16-19) 002 1 DISCHARGE NUMBER

P = FINAL

CONDENSER BACKWASH

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	10	01	TO	87	10	31
	(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)		QUANTITY OR LOADING (46-53) AVERAGE (1 Card Only)	QUANTITY OR LOADING (54-61) MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION (38-45) MINIMUM (4 Card Only)	QUALITY OR CONCENTRATION (46-53) AVERAGE	QUALITY OR CONCENTRATION (54-61) MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******			no backwash		DEG. F	0		
	PERMIT REQUIREMENT	******	******	*** ****							
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	no backwash			******	******	******		0		
	PERMIT REQUIREMENT	REPORT	25520 DAILY MX	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

K.P. ROBERTS
STATION 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

TELEPHONE: AREA CODE 617 NUMBER 746-7900

DATE: YEAR 1 MO 18 DAY 88

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

THE PH SHALL NOT VARY BY MORE THAN 0.4 STANDARD UNITS FROM THAT OF THE INTAKE WATER. FLOW RATE IS TO BE ESTIMATED AS TOTAL CIRCULATING FLOW PLANT PUT 24 CONTINOUS HOURS. SEE PERMIT PAGE 7 FOR CONDITIONS REGARDING TH CHLORINE DISCHARGE.

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

00252/122286-1502

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: C.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT (DMR)

(2-16) MA0003557 PERMIT NUMBER

(17-19) 002 1 DISCHARGE NUMBER

F = FINAL

CONDENSER BACKWASH

MONITORING PERIOD

FROM YEAR (20-21)	MO (22-23)	DAY (24-25)	TO YEAR (26-27)	MO (28-29)	DAY (30-31)
87	11	01	87	11	30

MAJOR (SUBR S)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (1 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	QUALITY OR CONCENTRATION (4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) 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 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		no backwash				0		
	PERMIT REQUIREMENT	******		*** ****				DEG.F			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	no backwash			******	******	******		0		
	PERMIT REQUIREMENT	REPORT		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

K.P. ROBERTS
STATION 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

TELEPHONE: AREA CODE 617, NUMBER 746-7900

DATE: YEAR 1, MO 10, DAY 88

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

IN-SITU SHALL NOT VARY MORE THAN 0.2 STANDARD UNITS FROM THAT OF THE INTAKE WATER. FLOW RATE IS TO BE ESTI MATED AT LEAST ONCE/MONTH. TOOK PLACE FOR 24 CONTINUOUS HOURS. SEE PERMIT PAGE 7 FOR CONDITIONS REGARDING TH

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: C.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT (DMR)

(1-16) MA0003557 PERMIT NUMBER

(17-19) 002 1 DISCHARGE NUMBER

F (=) FINAL

CONDENSER BACKWASH

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	12	01	TO	87	12	31
	(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)		(3 Card Only) QUANTITY OR LOADING (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	(4 Card Only) QUALITY OR CONCENTRATION (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) 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 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		nocturnal backwash				0		
	PERMIT REQUIREMENT	******	******	*** ****				DEG.F		CONTINUOUS	ESTIMA
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	7.1	7.7		******	******	******		0		
	PERMIT REQUIREMENT	REPORT	255.0 DAILY MX	MGD				*** ****			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

K.P. ROBERTS
STATION MANAGER

TYPED OR PRINTED

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SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: AREA CODE 617, NUMBER 746-7900

DATE: YEAR 1, MO 10, DAY 08

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

THE PH SHALL NOT VARY MORE THAN 0.2 STANDARD UNITS FROM THAT OF THE INTAKE WATER. FLOW RATE IS TO BE ESTIMATED AS IT FLUCTUATES FOUR PLACES FOR 24 CONTINUOUS HOURS. SEE PERMIT PAGE 7 FOR CONDITIONS REGARDING TH

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED

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

00764/122286-1502

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

ACTING C.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(1-15) MA0003557 PERMIT NUMBER

(17-19) 003 A DISCHARGE NUMBER

P (- FINAL

INTAKE SCREEN WASH

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	10	01	TO	87	10	31
	(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)		QUANTITY OR LOADING (4 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	QUALITY OR CONCENTRATION (4 Card Only) (18-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	QUALITY OR CONCENTRATION (54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.023	0.252	MGD	******	******	******	**** ****	O	CONTINUOUS	
	PERMIT REQUIREMENT	Report 30DA AVG	Report DAILY MX								
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
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	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

K.P. ROBERTS
STATION 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

AREA CODE	NUMBER
617	746-7900

DATE

YEAR	MO	DAY
1	18	88

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

TEMPERATURE OF THIS EFFLUENT SHALL BE NOT MORE EXCEED THE TEMPERATURE OF THE INTAKE WATER.
ALL FISH OR OTHER AQUATIC ORGANISMS COLLECTED OR TRAPPED ON INTAKE SCREEN SHOULD BE RETURNED TO WATER AS SOON AS POSSIBLE, BUT AT LEAST BEYOND INTAKE STRUCTURES TO PREVENT REIMPINGEMENT.

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.)

00274/122286-1502

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

NAME BOSTON ED CO PILGRIM PLANT

ADDRESS ROCKY HILL ROAD

RFD #1

PLYMOUTH MA 02360

FACILITY

LOCATION

ATTN: C.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved OMB No. 2040-0004 Approval expires 3-30-85

(2-16) MA0003557 PERMIT NUMBER

(17-19) 003 A DISCHARGE NUMBER

P + FINAL INTAKE SCREEN WASH

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	11	02	TO	87	12	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)		QUANTITY OR LOADING (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	QUALITY OR CONCENTRATION (46-54) MINIMUM	QUALITY OR CONCENTRATION (46-54) AVERAGE	QUALITY OR CONCENTRATION (54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.601	2.02		******	******	******		1	366 SUMMARY NOTES #II.E.	
	PERMIT REQUIREMENT	0.336 30DA AVG	2.02 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

K. P. ROBERTS
STATION 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

TELEPHONE

AREA CODE	NUMBER
617	746-7900

DATE

YEAR	MO	DAY
1	18	88

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

THE TEMPERATURE OF THE EFFLUENT SHALL AT NO TIME EXCEED THE TEMPERATURE OF THE INTAKE WATER.

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED (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

LOCATION

ATTN: C.J. MATHIS, STATION MANAGER

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

(2-16) PERMIT NUMBER: MA0003557

(17-19) DISCHARGE NUMBER: 003 A

FINAL: INTAKE SCREEN WASH

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	12	01	TO	87	12	31
	(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)		(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)
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	0.859	2.02		*****	*****	*****		1	SEE SUMMARY NOTES #II.E.	
	PERMIT REQUIREMENT	4.336 30 DA AVG	7.00	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

K.P. ROBERTS
STATION 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

TELEPHONE: AREA CODE 617, NUMBER 746-7900

DATE: YEAR 1, MO 18, DAY 88

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 OR ELASMO BRANCH OTHER ORGANISM COLLECTED OR TRAPPED ON INTAKE SCREEN SHOULD BE RETURNED TO WATER
AS NEAR THAT [illegible] 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: C.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

Form Approved OMB No. 2040-0004
Approval expires 8-30-88

(2-16) MA0003557 PERMIT NUMBER

(17-19) 010 A DISCHARGE NUMBER

P - FINAL

SERVICE COOLING WATER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	10	01	TO	87	10	31
	(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)		QUANTITY OR LOADING (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	QUALITY OR CONCENTRATION (46-53) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	QUALITY OR CONCENTRATION (54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	4.5	7.2		******	******	******		0		
	PERMIT REQUIREMENT	11.7	REPORT	MGD				**** ****		CONTINUOUS	DAILY AV
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALU	SAMPLE MEASUREMENT	******	******		0.07	0.12	0.15		2	SEE SUMMARY NOTES # II.C.	
	PERMIT REQUIREMENT	******	******	**** ****				MG/L		CONTINUOUS DOSE	DAILY AV
	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

K.P. ROBERTS
STATION 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

TELEPHONE

AREA CODE	NUMBER
617	746-7900

DATE

YEAR	MO	DAY
1	18	88

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

CONTINOUS CHLORINATION OF SERVICE WATER SYSTEM MAY BE USED FOR MACROINVERTEBRATE CONTROL. FLOW RATE SHALL BE ESTIMATED FROM PUMP CAPABILITY 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

LOCATION

ATTN: C.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT (DMR)

(2-16) MA0003557 PERMIT NUMBER

(17-18) 010 A DISCHARGE NUMBER

P (- FINAL

SERVICE COOLING WATER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	11	01	TO	87	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)		(1 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)
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3.8	7.2		******	******	******		0		
	PERMIT REQUIREMENT	11.7	REPORT	MGD				**** ****		CONT	DAILY
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		0.09	0.13	0.16		1	SEE SUMMARY NOTES # II.C.	
	PERMIT REQUIREMENT	******	******	**** ****				MG/L		CONT	DAILY
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER

K.P. ROBERTS
STATION 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 imprisonments of between 6 months and 5 years.

SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE

AREA CODE 617 NUMBER 746-7900

DATE

YEAR MO DAY

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.

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED

(REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.) 00297/122286-1502

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: S.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM
DISCHARGE MONITORING REPORT (DMR)

(1-10) MA0003557 — PERMIT NUMBER

(11-13) 010 A — DISCHARGE NUMBER

(14) F — FINAL

SERVICE COOLING WATER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	12	01	TO	87	12	31
	(18-19)	(20-21)	(22-23)		(24-25)	(26-27)	(28-29)

MAJOR (SUBR S)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (1 Card Only) (46-53) AVERAGE	QUANTITY OR LOADING (54-61) MAXIMUM	QUANTITY OR LOADING UNITS	QUALITY OR CONCENTRATION (4 Card Only) (38-45) MINIMUM	QUALITY OR CONCENTRATION (46-53) AVERAGE	QUALITY OR CONCENTRATION (54-61) MAXIMUM	QUALITY OR CONCENTRATION UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3.7	7.2		******	******	******		0		
	PERMIT REQUIREMENT	11.7	******	MGD				**** ****			
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	******	******		0.09	0.11	0.12		0		
	PERMIT REQUIREMENT	******	******	**** ****				MG/L		CONTINUOUS	GRAB
	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

K.P. ROBERTS
STATION 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

TELEPHONE: AREA CODE 617, NUMBER 746-7900

DATE: YEAR 1, MO 18, DAY 88

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.

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: C.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES)

DISCHARGE MONITORING REPORT (DMR)

(1-16) MA0003557 PERMIT NUMBER

(17-18) 011 A DISCHARGE NUMBER

F - FINAL

MAKE UP WATER AND DEMINERALIZE

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	10	01	TO	87	10	31
	(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)		(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)
PH	SAMPLE MEASUREMENT	******	******		6.5	******	7.9		0		
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****				SU			GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	******	******		******	2.5	33.0		0		
00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****				MG/L			GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.003	0.013		******	******	******		0		
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	0.025 30DA AVG	0.05 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

K.P. ROBERTS
STATION 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

TELEPHONE

AREA CODE	NUMBER
617	746-7900

DATE

YEAR	MO	DAY
1	18	88

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

FORMERLY DISCHARGE 011 ONLY - 001E. SAMPLES TAK W IN COMPLIANCE WITH THE MONITORING REQUIREMENTS SPECIFIC ABOVE. SAMPLE IS TAKEN AT A POINT PRIOR TO MIXING WITH ANY OTHER STREAM. SEE PG 11 OF PERMIT FOR BIOLOGI CAL MONITORING REQUIREMENTS.

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: C.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT (DMR)

(2-16) MA0003557 — PERMIT NUMBER

(17-18) 011 A — DISCHARGE NUMBER

F - FINAL

MAKE UP WATER AND DEMINERALIZER

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	11	01	TO	87	11	30
	(19-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

MAJOR (SUBR S)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)		QUANTITY OR LOADING (46-53) AVERAGE (1 Card Only)	QUANTITY OR LOADING (54-61) MAXIMUM	UNITS	QUALITY OR CONCENTRATION (38-45) MINIMUM (4 Card Only)	QUALITY OR CONCENTRATION (46-53) AVERAGE	QUALITY OR CONCENTRATION (54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		7.1	******	7.8		0		
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****				SU			GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	******	******		******	0.13	1.6		0		
00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****				MG/L			GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.001	0.010		******	******	******		0		
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	0.015 30DA AVG	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

K.P. ROBERTS
STATION 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

TELEPHONE: AREA CODE 617 — NUMBER 746-7900

DATE: YEAR 1 — MO 18 — DAY 88

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

FORMERLY DESIGNATED DISCHARGE 001. HANDLES TANK IN COMPLIANCE WITH THE MONITORING REQUIREMENTS SPECIFI
D ABOVE SHALL NOT BE MIXED PRIOR TO MIXING WITH ANY OTHER STREAM. SEE PG 11 OF PERMIT FOR BIOLOGI
CAL MONITORING REQUIREMENTS.

EPA Form 3320-1 (Rev. 10-79) PREVIOUS EDITION TO BE USED UNTIL SUPPLY IS EXHAUSTED (REPLACES EPA FORM T-40 WHICH MAY NOT BE USED.) 00299/12226-1592

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

ATING L.J. MATHIS, STATION MANAGER

NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM

DISCHARGE MONITORING REPORT (DMR)

(2-16) MA0003557 PERMIT NUMBER

(17-18) 011 A DISCHARGE NUMBER

P/F FINAL

MAKE UP WATER AND DEMINERALIZE

MONITORING PERIOD

	YEAR	MO	DAY		YEAR	MO	DAY
FROM	87	12	01	TO	87	12	31
	(19-20)	(21-22)	(23-24)		(25-26)	(27-28)	(29-30)

MAJOR (SUBR S)

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 (46-53) MINIMUM	AVERAGE	(54-61) MAXIMUM	UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
PH	SAMPLE MEASUREMENT	******	******		7.0	******	7.7		0		
00400 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****				SU			GRAB
SOLIDS, TOTAL SUSPENDED	SAMPLE MEASUREMENT	******	******		******	1.09	23.2		0		
00530 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	******	******	**** ****				MG/L			GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT	SAMPLE MEASUREMENT	0.001	0.011		******	******	******		0		
50050 1 0 EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	0.015 30DA AVG	0.05 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

K.P. ROBERTS
STATION 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

TELEPHONE

AREA CODE	NUMBER
617	746-7900

DATE

YEAR	MO	DAY
1	18	88

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

FORMERLY DESIGNATED ATTACHMENT A-1. 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 BIOLOGY

BOSTON EDISON
Executive Offices
800 Boylston Street
Boston, Massachusetts 02199

Ralph G. Bird
Senior Vice President — Nuclear

BECo 88-015

January 28, 1988

United States Environmental Protection Agency
Region I
Permits Processing Unit - Room 2109
John F. Kennedy Federal Building
Boston, MA 02203

Massachusetts Division of Water Pollution Control
Lakeville Hospital
Lakeville, MA 02346

License DPR-35
Docket 50-293

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, 1987 through December 31, 1987.

R. G. Bird

RDA/gp/1624

Attachments: 1. Summary
2. Discharge Monitoring Report

cc: U. S. Nuclear Regulatory Commission
Region I
631 Park Avenue
King of Prussia, PA 19406

U. S. Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D.C. 20555

Senior NRC Resident Inspector
Pilgrim Nuclear Power Station

IE48
1/1