

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

MA0003557
 PERMIT NUMBER

001 1
 DISCHARGE NUMBER

F - FINAL LIMITS
 COOLING WATERS

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

NOTE: Read instructions before completing this form.

ATTN: C.J. MATHIS, STATION MANAGER

PARAMETER (32-37)	X	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG, FAHRENHEIT 00011 1 0		*****	*****	*****	59.7	60.6	61.6		0		
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0		*****	*****	*****	*****	*****	102 INST MX	DEG.F		CONTINUOUS	CONTINUOUS
EFFLUENT GROSS VALUE CHLORINE, TOTAL RESIDUAL 50060 1 0		220.8	223.2		*****	*****	*****	*****	0		
		447.0	510.0	MGD	*****	*****	*****	*****	*****		CONTINUOUS
		30DA AVG	DAILY MX		0	0	0		0		
		*****	*****	*****	*****	*****	.1 DAILY MX	MG/L		ONCE/ DISCHG	GRAB-2

TE 25 1/1

8502050316 841231
 PDR ADOCK 05000293
 R PDR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER C.J. MATHIS 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 617 746-7400	DATE 85 1 23
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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.

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

MA0003557
 PERMIT NUMBER

001 1
 DISCHARGE NUMBER

F - FINAL LIMITS
 COOLING WATERS

MONITORING PERIOD
 FROM 84 11 01 TO 84 11 30
(20-21) (22-24) (24-25) (26-27) (28-29) (30-31)

NOTE: Read instructions before completing this form.

ATTN: C.J. MATHIS, STATION MANAGER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			(46-53)			NO. EX (62-64)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS					
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0	*****	*****	*****	*****	49.3	50.2	51.1				0		
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0	*****	*****	*****	*****	*****	*****	102 INST MX	DEG.F			0	CONTINUOUS	CONTINUOUS
EFFLUENT GROSS VALUE CHLORINE, TOTAL RESIDUAL 50060 1 0	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	0	CONTINUOUS	CONTINUOUS
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	*****	*****	*****	*****	0	ONCE/DISCHG	GRAB-2

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER: **C. J. MATHIS**
 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: *Charles J. Mathis*

TELEPHONE: 617 746 7900
 DATE: 85 1 23

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) (2-16) (17-19)

Form Approved OMB No. 2040-0604 Expires 2-29-84

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

MA0003557

PERMIT NUMBER

001 1

DISCHARGE NUMBER

F - FINAL LIMITS COOLING WATERS

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
84	12	01	84	12	31
(20-21)	(22-24)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: C.J. MATHIS, STATION MANAGER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (45-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	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	*****	*****	*****	*****	43.3	44.2	46.5	DEG.F	0		
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0	*****	*****	*****	*****	*****	*****	102 INST MX			CONTINUOUS	CONTINUOUS
EFFLUENT GROSS VALUE CHLORINE, TOTAL RESIDUAL 50060 1 0	*****	*****	*****	*****	*****	*****	*****			CONTINUOUS	CONTINUOUS
EFFLUENT GROSS VALUE	*****	*****	*****	*****	0	0	0		0		
EFFLUENT GROSS VALUE	*****	*****	*****	*****	*****	*****	.1 DAILY MX	MG/L		ONCE/ DISCHG	GRAB-2
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
C.J. MATHIS
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.)

Charles Mathis
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE	DATE
617 746-7900	85 1 28
AREA CODE NUMBER	YEAR MO DAY

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.

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

MA0003557
 PERMIT NUMBER

002 1
 DISCHARGE NUMBER

F - FINAL LIMITS
 CONDENSER BACKWASH

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

NOTE: Read instructions before completing this form.

ATTN: C.J. MATHIS, STATION MANAGER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (46-53)			UNITS	NO. EX (62-64)	FREQUENCY OF ANALYSIS (67-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0		*****	*****	*****	<i>no backwashes</i>				0		
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0		*****	*****	*****	*****	*****	120	DEG.F		CONTINUOUS	CONTINUOUS
EFFLUENT GROSS VALUE		0	0		*****	*****	*****	*****	0		
EFFLUENT GROSS VALUE		*****	255.0	MGD	*****	*****	*****	*****		SEE PERMIT	ESTIMATE
			DAILY MX								

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
C.J. MATHIS
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.)

Charles Mathis
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 617 746-7900
 DATE: 81 1 23
 AREA CODE NUMBER 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.

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

MA0003557
 PERMIT NUMBER

002 1
 DISCHARGE NUMBER

F - FINAL LIMITS
 CONDENSER BACKWASH

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
84	11	01	84	11	30
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

FROM 84 11 01 TO 84 11 30

NOTE: Read instructions before completing this form.

ATTN: C.J. MATHIS, STATION MANAGER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-43)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0		*****	*****	*****	no backwashes				0		
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0		*****	*****	*****	*****	*****	120	DEG.F		CONTINUOUS	
EFFLUENT GROSS VALUE		0	0		*****	*****	*****	*****	0		
EFFLUENT GROSS VALUE		*****	255.0	MGD	*****	*****	*****	*****		SEE ESTIMATE PERMIT	
			DAILY MX								

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
 C.J. MATHIS
 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 NUMBER: 617 746 7400
 DATE: 85 1 23

COMMENT: EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)
 THE PL 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 Expires 2-29-84

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

(2-16) **MA0003557**
 PERMIT NUMBER
 (17-19) **002 1**
 DISCHARGE NUMBER

F - FINAL LIMITS
 CONDENSER BACKWASH

MONITORING PERIOD						
YEAR	MO	DAY	TL	YEAR	MO	DAY
84	12	01		84	12	31
(20-21)	(22-24)	(24-25)		(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

ATTN: C.J. MATHIS, STATION MANAGER

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0	*****	*****	*****	*****	<i>no backwashes</i>			0		
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0	*****	*****	*****	*****	*****	*****	*****	120	DEG.F	CONTINUOUS
EFFLUENT GROSS VALUE	0	0			*****	*****	*****	*****	0	
EFFLUENT GROSS VALUE	*****	255.0	MGD	*****	*****	*****	*****	*****		SEE ESTIMATE PERMIT

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
C.J. MATHIS
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.)

Charles Mathis
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 617 746-7900
 DATE: 85 1 23
 AREA CODE NUMBER 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.

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

MA0003557
 PERMIT NUMBER

003 A
 DISCHARGE NUMBER

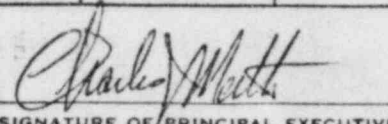
F - FINAL LIMITS
 INTAKE SCREEN WASH

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

NOTE: Read instructions before completing this form.

ATTN: C.J. MATHIS, STATION MANAGER

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	0.242	0.252		MGD	*****	*****	*****	*****	0	CONTINUOUS
	PERMIT REQUIREMENT	0.336	2.02		*****	*****	*****	*****		
		30DA AVG	DAILY MX							
	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 C. J. MATHIS 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 617 746-7600 AREA CODE NUMBER	DATE 85 1 23 YEAR MO DAY
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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 AMBIENT TEMP. SUFFICIENTLY DISTANT 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 _____

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

MA0003557
 PERMIT NUMBER

003 A
 DISCHARGE NUMBER

F - FINAL LIMITS
 INTAKE SCREEN WASH

Form Approved
 OMB No. 2040-0004
 Expires 2-29-84

MONITORING PERIOD
 FROM 84 11 01 TO 84 11 30
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

ATTN: C.J. MATHIS, STATION MANAGER

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE		0.769	0.512 1.512	MGD	*****	*****	*****	*****	1	SEE SUMMARY NOTES # II.H. CONTINUED
		0.336 30DA AVG	2.02 DAILY MX		*****	*****	*****	*****		

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
C.J. MATHIS
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.)

Charles Mathis
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 617 746 7900
 DATE: 85-1-23
AREA CODE NUMBER YEAR MO DAY

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 AMBIENT TEMP. SUFFICIENTLY DISTANT FROM INTAKE STRUCTURES TO PREVENT REIMPINGEMENT.

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 Expires 2-29-84

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

MA0003557
 PERMIT NUMBER

003 A
 DISCHARGE NUMBER

F - FINAL LIMITS
 INTAKE SCREEN WASH

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
84	12	01	84	12	31
<small>(12-31)</small>	<small>(12-29)</small>	<small>(12-25)</small>	<small>(12-27)</small>	<small>(12-29)</small>	<small>(12-31)</small>

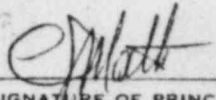
NOTE: Read instructions before completing this form.

ATTN: C.J. MATHIS, STATION MANAGER

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (34-61)			QUALITY OR CONCENTRATION (38-45)				NO. EX (52-61)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE (46-53)	MAXIMUM (54-61)	UNITS	MINIMUM (38-45)	AVERAGE (46-53)	MAXIMUM (54-61)	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	1.327	1.653 1.653	MGD	*****	*****	*****	*****	1	SEE SUMMARY NOTES # II. H.	CONTINESTIMAOUS
	PERMIT REQUIREMENT	0.336 30DA AVG	2.02 DAILY MX		*****	*****	*****	*****			
	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
C.J. MATHIS
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: 617 746 7400
 DATE: 85 1 23
 AREA CODE NUMBER YEAR MO DAY

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 AMBIENT TEMP. SUFFICIENTLY DISTANT FROM INTAKE STRUCTURES TO PREVENT REIMPINGEMENT.

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

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

Approved OMB No. 2040-0004 Expires 2-29-84

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

MA0003557
 PERMIT NUMBER

010 A
 DISCHARGE NUMBER

F = FINAL LIMITS
 SERVICE COOLING WATER

FACILITY _____
 LOCATION _____

ATTN: C.J. MATHIS, STATION MANAGER

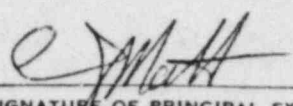
MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
84	10	01	84	10	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-65)	FREQUENCY OF ANALYSIS (64-69)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE		3.64	4.8	MGD	*****	*****	*****	*****	0		
		PERMIT REQUIREMENT	11.7	*****	*****	*****	*****	*****			CONTINUOUS DAILY
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	0	0	0		0		
		PERMIT REQUIREMENT	*****	*****	*****	0.25 30DA AVG	0.5 DAILY MX	MG/L			CONTINUOUS DAILY
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT									
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT									
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT									
		SAMPLE MEASUREMENT									
		PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
C.J. MATHIS
STATION MANAGER
 TYPED OR PRINTED

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 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 617 746-7900
 DATE: 85 1 23
 AREA CODE: 617 NUMBER: 746-7900 YEAR: 85 MO: 1 DAY: 23

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.

NAME BOSTON ED #1 PILGRIM PLANT
 ADDRESS ROCKY HILL ROAD
RD #1
PLYMOUTH MA 02360
 FACILITY _____
 LOCATION _____

MA0003557
 PERMIT NUMBER

010 A
 DISCHARGE NUMBER

F - FINAL LIMITS
 SERVICE COOLING WATER

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
84	11	01	84	11	30
<small>(20-21)</small>	<small>(22-23)</small>	<small>(24-25)</small>	<small>(26-27)</small>	<small>(28-29)</small>	<small>(30-31)</small>

FROM TO

NOTE: Read instructions before completing this form.

ATTN: C.J. MATHIS, STATION MANAGER

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 (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0	3.4	4.2			*****	*****	*****	*****	0	
EFFLUENT GROSS VALUE CHLORINE, TOTAL RESIDUAL 50060 1 0	11.7	*****	MGD		*****	*****	*****	*****		CONTINUOUS
	*****	*****	*****		0.06	0.35	0.66		9	SEE SUMMARY NOTES #11.C.
	*****	*****	*****		*****	0.25	0.5	MG/L		CONTINUOUS
						30DA AVG	DAILY MX			

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
C.J. MATHIS
 STATION MANAGER
 TYPED OR PRINTED

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Charlie Mathis
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 617 746 7400
 DATE: 85 1 23

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.

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

MA0003557
 PERMIT NUMBER

010 A
 DISCHARGE NUMBER

F - FINAL LIMITS
 SERVICE COOLING WATER

FACILITY _____
 LOCATION _____

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
84	12	01	84	12	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

ATTN: C.J. MATHIS, STATION MANAGER

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)				NO. EX (62-64)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	4.4	7.2	MGD	*****	*****	*****	*****	0		
	PERMIT REQUIREMENT	11.7	*****		*****	*****	*****	*****			
CHLORINE, TOTAL RESIDUAL 50060 1 0 EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	*****	*****	*****	0.13	0.23	0.37	MG/L	2	SEE SUMMARY NOTES #II.C.	CONTIN DAILY UOUS
	PERMIT REQUIREMENT	*****	*****	*****	*****	0.25 30DA AVG	0.5 DAILY MX				
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
C.J. MATHIS
STATION MANAGER
 TYPED OR PRINTED

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Charles J. Mathis
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 617-746-7400
 DATE: 85-1-23
 AREA CODE: 617 NUMBER: 7467400 YEAR: 85 MO: 1 DAY: 23

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all applicable hours 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.

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

MA0003557
 PERMIT NUMBER

011 A
 DISCHARGE NUMBER

F - FINAL LIMITS
 MAKE UP WATER AND DENMINERALIZE

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

NOTE: Read instructions before completing this form.

ATTN: C.J. MATHIS, STATION MANAGER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
PH		*****	*****	*****	6.1	*****	8.3		0		
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.1 MINIMUM	*****	8.4 MAXIMUM	SU		SEE PERMIT	GRAB
SOLIDS, TOTAL SUSPENDED		*****	*****	*****	*****	9.6	52.8		0		
00530 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	30 30DA AVG	100 DAILY MX	MG/L		SEE PERMIT	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.013	0.022		*****	*****	*****	*****	0		
50050 1 0 EFFLUENT GROSS VALUE		0.015 30DA AVG	0.06 DAILY MX	MGD	*****	*****	*****	*****		SEE PERMIT	ESTIMA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
C.J. MATHIS
 STATION MANAGER
 TYPED OR PRINTED

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Charles Mathis
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 677 746 7802
 DATE: 85 1 23
 AREA CODE NUMBER YEAR MO DAY

COMMENT AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments if any)
 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.

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

MA0003557
 PERMIT NUMBER

011 A
 DISCHARGE NUMBER

F - FINAL LIMITS
 MAKE UP WATER AND DEMINERALIZE

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
84	11	01	84	11	30
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

ATTN: C.J. MATHIS, STATION MANAGER

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-51)			(4 Card Only) QUALITY OR CONCENTRATION (46-51)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-65)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
PH		*****	*****	*****	6.1	*****	8.3		0		
00400 1 0 EFFLUENT GROSS VALL		*****	*****	*****	6.1 MINIMUM	*****	8.4 MAXIMUM	SU		SEE GRAB PERMIT	
SOLIDS, TOTAL SUSPENDED		*****	*****	*****	*****	6.4	40.0		0		
00530 1 0 EFFLUENT GROSS VALU		*****	*****	*****	*****	30 30DA AVG	100 DAILY MX	MG/L		SEE GRAB PERMIT	
FLOW, IN CONDUIT OR THRU TREATMENT PLAN		0.011	0.024		*****	*****	*****	*****	0		
50050 1 0 EFFLUENT GROSS VALU		0.015 30DA AVG	0.06 DAILY MX	MGD	*****	*****	*****	*****		SEE ESTIMA PERMIT	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
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 STATION MANAGER
 TYPED OR PRINTED

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Charles Mathis
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 617 746 7400
 DATE: 88 1 23

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,

NAME BOSTON ED #1 PILGRIM PLANT
 ADDRESS ROCKY HILL ROAD
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PLYMOUTH MA 02360
 FACILITY _____
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MA0003557
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011 A
 DISCHARGE NUMBER

F - FINAL LIMITS
 MAKE UP WATER AND DEMINERALIZE

MONITORING PERIOD					
YEAR	MO	DAY	YEAR	MO	DAY
84	12	01	84	12	31
(20-21)	(22-23)	(24-25)	(26-27)	(28-29)	(30-31)

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ATTN: C.J. MATHIS, STATION MANAGER

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45)			UNITS	NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM				
PH		*****	*****	*****	6.2	*****	8.4		0		
00400 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	6.1 MINIMUM	*****	8.4 MAXIMUM	SU		SEE PERMIT	GRAB
SOLIDS, TOTAL SUSPENDED		*****	*****	*****	*****	5.8	19.4		0		
00530 1 0 EFFLUENT GROSS VALUE		*****	*****	*****	*****	30 30DA AVG	100 DAILY MX	MG/L		SEE PERMIT	GRAB
FLOW, IN CONDUIT OR THRU TREATMENT PLANT		0.011	0.013		*****	*****	*****	*****	0		
50050 1 0 EFFLUENT GROSS VALUE		0.015 30DA AVG	0.06 DAILY MX	MGD	*****	*****	*****	*****		SEE PERMIT	ESTIMA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER
C.J. MATHIS
STATION MANAGER
 TYPED OR PRINTED

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Charles J. Mathis
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE: 817 746 7000
 DATE: 85 1 23

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.

BOSTON EDISON COMPANY
800 BOYLSTON STREET
BOSTON, MASSACHUSETTS 02199

WILLIAM D. HARRINGTON
SENIOR VICE PRESIDENT
NUCLEAR

January 25, 1985
BEC0 5.85.006

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

Massachusetts Division of Water Pollution Control
Lakeville Hospital
Lakeville, Massachusetts 02203

Gentlemen:

Enclosed is the Discharge Monitoring Report for Pilgrim Nuclear Power Station, NPDES Permit Number 0003557 (Federal) and Number 359 (State).

The period covered by this report is October 1, 1984 to December 31, 1984.

Very truly yours,

W D Harrington

Attachment - Discharge Monitoring Report

cc: Mr. Dominic B. Vassallo, Chief (w/attachments)
Operations Reactors Branch #2
Division of Licensing
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

cc: Dr. Thomas E. Murley (w/attachments)
Regional Administrator
Office of Inspection & Enforcement
Region I
631 Park Avenue
King of Prussia, PA 19406

IB25
11

PILGRIM I DISCHARGE PERMIT REPORT

In accordance with the Federal Clean Water Act, amended (33USC 1251 Et. Seq: the "CWA", and the Massachusetts Clean Waters Act, as amended (M.G.L., C21, 26-53), regarding effluent limitations, monitoring requirements and other conditions set forth in the Pilgrim Discharge Permits (Federal Permit Number MA0003557, and State Permit Number 359), Parts I and II, the following information is submitted for the period October 1, 1984 - December 31, 1984.

I. Discharge Points Covered in this Report

<u>Discharge Point</u>	<u>Discharge Identification</u>
001	Condenser Cooling Water
002	Condenser Backwash and Slime Control
003	Intake Screen Wash
010	Service Cooling Wash
011	Makeup Water and Demineralizer Waste Discharge

II. Summary and Notes of Discharge Report

- A. The flow 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 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 point 001 and 002 are measured by resistance temperature detectors (RTD's).
- C. Periodically, total residual chlorine concentration in the service cooling water (010) exceeds Permit requirements, 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 flow kept 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 MGD to 19.4 MGD.
- E. Pilgrim Station shutdown on December 10, 1983 for a planned outage and remained shutdown from October 1 - December 30, 1984.

- F. A maximum of 25,000 gallons of demineralized water containing 11 ppm (parts per million) of silica was discharged from point #011 under the dilution of one seawater pump (155,000 gpm). Verbal authorization was received for this discharge and a follow-up letter submitted to EPA, Compliance Branch (T.E. Landry) on December 13, 1984 (BECO letter 5.84-047).
- G. Intake traveling screens were operated without dechlorination pumps operating on 11/21 (2 occurrences), 11/23, 11/24, 11/25, 11/26 11/27, 12/3, 12/10, 12/12, 12/17, 12/21, and 12/29. One occurrence on each date unless otherwise noted.
- H. Thirty day average, intake screen wash (003) flow periodically exceeds Permit limits 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 0.336MGD to 2.02MGD was sent to T. E. Landry on December 13, 1984 to the EPA, Compliance Branch (BECO letter 5.84-048).
- I. The Pilgrim Station discharge canal, fish barrier net was installed on December 20, 1984 after having been removed in December 1983 for the outage period. EPA gave permission for its removal via letter of December 16, 1983.
- J. From December 29, 1984 - January 8, 1985, approximately 90 bags (2,250 lbs) of sawdust were applied to the Pilgrim Station condensers to seal leaks.
- K. The 1985 Pilgrim Station, NPDES Permit Environmental Monitoring Program was submitted to EPA and the Mass. DWPC on December 27, 1984 (BECO letters 5.84-052 and 5.84-053 respectively).