



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

June 17, 1993

W. C. Rothert  
General Manager Technical

BEC0 5.93.073

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

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

Discharge Monitoring Report

Dear Sirs:

Enclosed is the Discharge Monitoring Report for Pilgrim Nuclear Power Station (PNPS), NPDES Permit Number MA0003557 (Federal) and Number 359 (State).

The period covered by this report is May 1993.

  
W. C. Rothert

RDA/DMR/nas

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

220020

9306240160 930617  
PDR ADOCK 05000293  
R PDR

JE23 |

## 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 May 1993.

I. Discharge Points Covered in this Report

<u>Discharge Point</u>	<u>Discharge Identification</u>
001	Condenser Cooling Water
002	Thermal Backwash for Biofouling Control
003	Intake Screen Wash
004, 005, 006, and 007	Yard Drains (May and September)
010	Service Cooling Water
011	Makeup Water and Demineralizer Waste Discharge

II. Summary and Notes of Discharge Report

- A. The flow at points 001 and 010 are calculated from system pump capacity and are equal to the total for all pumps in each system running at full capacity for a 24-hour period. The flow at 011 is measured by noting sump levels before and after discharge. Flow at point 002 is a conservative figure obtained by calculating flow if backwashing took place for 24 hours. Flow at point 003 is calculated from system pump capacity and mean operating time.
- B. The temperatures at points 001 and 002 are measured by resistance temperature detectors (RTD's).
- C. Periodically, total residual chlorine (TRC) concentration in the service cooling water (010) exceeds Permit requirements (0.50 ppm daily average TRC and 1.00 ppm daily maximum TRC) prior to mixing with any other stream, primarily because of the number of service water pumps in operation. Chlorine injection levels are lowered as a corrective measure. The dilution provided by the PNPS circulating water flow keeps total residual chlorine concentrations discharged to Cape Cod Bay below the NPDES Permit limit of 0.1 ppm.

- D. For stormwater outfalls 004, 005, 006 and 007, Sigma 800 SL Portable Composite Samplers are utilized. The samplers are equipped with a "liquid level activator" that commences the sampling when the liquid reaches a predetermined level. This assures a sample is taken "within the first hour of the start of a significant storm event." The intake and collection assemblies of the samplers conform to U.S. EPA requirements for collecting oil and grease samples (USEPA letter to BECo dated 1/7/92). No additional inputs to these stormwater outfalls occur downstream of the composite samplers' sampling locations.
- E. Intake traveling water screens were operated with dechlorination pumps operating at all times.
- F. Sawdust was applied to seek and seal PNPS condenser leaks on May 26 (60 pounds), 29 (780 pounds), 30 (900 pounds) and 31 (450 pounds).
- G. The following boron and sodium nitrite discharges (ppm) occurred in May 1993 from discharge point #001. All discharges were below NPDES Permit limits prior to entering Cape Cod Bay.

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

Boron

5/07/93	14,195	5.0	0.007
5/14/93	10,020	2.6	0.003

Sodium Nitrite

5/07/93	14,195	1.5	0.002
5/14/93	10,020	3.0	0.004

- H. The Pilgrim Station discharge canal fish barrier net was installed on May 24, 1993 for the first time since its requirement was temporarily rescinded on December 30, 1992 (BECo Letter 5.92.180).

ATTACHMENT 2 TO BECo LETTER 5.93.073

DISCHARGE MONITORING REPORT

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

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

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

(2-16) (17-19)

MA0003557  
 PERMIT NUMBER

001 1  
 DISCHARGE NUMBER

MAJOR (SUBR 5) Form Approved OMB No. 2040-0004  
 F - FINAL  
 CONDENSER COOLING WATER

MONITORING PERIOD							
YEAR	MO	DAY	TO	YEAR	MO	DAY	
93	05	01		93	05	31	
(20-21)		(22-23)		(24-25)		(26-27)	
				(28-29)		(30-31)	

\*\*\* NO DISCHARGE \*\*\*  
 NOTE: Read instructions before completing this form.

FACILITY LOCATION  
 ATTN: L.L. SCHEMLING, PLANT MANAGER

PARAMETER (32-37)	SAMPLE MEASUREMENT	(3 Card Only) QUANTITY OR LOADING (46-53)			(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	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 0	*****	*****	( )	*****	*****	60.1	( 15) OF	0	99/99	RC	
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	102	DAILY MX DEG.F			CONTINGEN CIOUS	
OXIDANTS, TOTAL RESIDUAL 34044 1 0 0	*****	*****	( )	*****	0.01	0.02	( 19) MG/L	0	WH/DS	GR	
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	0.1	0.1	DAILY MX MG/L			WHEN GRAB DISCHG	
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	*****	233.5	446.4 ( 03) MGD	*****	*****	*****	( )	0	99/99	ES	
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	447.0	510.0	****	*****	*****	****			CONTINGEN CIOUS	
TEMP. DIFF. BETWEEN INTAKE AND DISCHARGE 61576 1 0 0	*****	*****	( )	*****	*****	7.3	( 15) OF	0	99/99	CA	
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	****	*****	32	DAILY MX DEG.F			CONTINGEN CIOUS	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
L.L. SCHEMLING  
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  
*L.L. Schmeling*

TELEPHONE 508 747-8100  
 DATE 93 06 09  
 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. SEE PERMIT PAGE 5 PARAGRAPHS M&N FOR BORON AND SODIUM NITRATE REPORTING REQUIREMENTS. ATTACH ALL RELATED REPORTS TO THIS FORM. A BARRIER SHALL BE MAINTAINED AT THE THERMAL END OF DISCHARGE CANAL AT ALL TIMES.

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

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

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

MAJOR (SUBR 5) Form Approved OMB No. 2040-0004  
 F - FINAL THERMAL BACKWASH  
 MONITORING PERIOD  
 FROM YEAR 93 MO 05 DAY 01 TO YEAR 93 MO 05 DAY 31  
 (20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

FACILITY \_\_\_\_\_  
 LOCATION \_\_\_\_\_  
 ATTN: L.L. SCHMELING, PLANT MANAGER

\*\*\* NO DISCHARGE [ ] \*\*\*  
 NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (54-57)			(4 Card Only) QUALITY OR CONCENTRATION (54-61)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (54-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
TEMPERATURE, WATER DEG. FAHRENHEIT 00011 1 0 0	SAMPLE MEASUREMENT	*****	*****	( )	*****	*****	none	( 15 )	0	99/99	RC
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	*****	***	*****	*****	120	OF			CONTINRCORR
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	SAMPLE MEASUREMENT	*****	none	( 03 )	*****	*****	*****	( )	0	WH/DS	ES
EFFLUENT GROSS VALUE	PERMIT REQUIREMENT	*****	255.0	MGD	*****	*****	*****	****			WHEN ESTIMA
	SAMPLE MEASUREMENT			MGD				****			DISCHR
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  <u>L.L. SCHMELING</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 \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	TELEPHONE  <u>508 747-8100</u>	DATE		
			SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  <u>L.L. Schmeling</u>	AREA CODE	NUMBER

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 8 FOR CONDITIONS REGARDING TH  
 EPA Form 3325-7 (Rev. 9-88) Previous Editions may be used. (REPLACES EPA FORM T-48 WHICH MAY NOT BE USED.) PAGE OF

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

NAME BOSTON ED #1 PILGRIM PLANT

ADDRESS ROCKY HILL ROAD

RED #1

PLYMOUTH MA 02360

FACILITY \_\_\_\_\_

LOCATION \_\_\_\_\_

ATTN: L.L. SCHEMELING, PLANT MANAGER

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

MA0003557  
PERMIT NUMBER

003 A  
DISCHARGE NUMBER

MAJOR (SUBR 5)  
F - FINAL  
INTAKE SCREEN WASH

Form Approved  
OMB No. 2040-0004

MONITORING PERIOD							
FROM	YEAR	MO	DAY	TO	YEAR	MO	DAY
	93	05	07		93	05	31
	(20-21)	(22-23)	(24-25)		(26-27)	(28-29)	(30-31)

\*\*\* NO DISCHARGE [ ] \*\*\*  
NOTE: Read instructions before completing this form.

PARAMETER (32-37)	SAMPLE MEASUREMENT	QUANTITY OR LOADING (3 Card Only) (46-53)			QUALITY OR CONCENTRATION (4 Card Only) (46-53)				NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM	UNITS			
FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0 EFFLUENT GROSS VALUE	0.046	0.378	( 03 ) MGD	*****	*****	*****	( )	0	01/01	ES	
	PERMIT REQUIREMENT	2.1 MO AVG	2.1 DAILY MX	MGD	*****	*****	*****	***		DAILY ESTIMA	
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										
	SAMPLE MEASUREMENT										
	PERMIT REQUIREMENT										

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
L.L. SCHEMELING  
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.

W. J. Williams  
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 508 747-8100  
DATE 93 06 09  
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  
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  
RED #1  
PLYMOUTH MA 02360

FACILITY

LOCATION

ATTN: L.L. SCHMELING, PLANT MANAGER

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

MA0003557  
 PERMIT NUMBER

Q10 A  
 DISCHARGE NUMBER

MAJOR (SUBR 5) F - FINAL  
 PLANT SERVICE COOLING WATER

Form Approved  
 OMB No. 2040-0004

MONITORING PERIOD

FROM YEAR 93 MO 05 DAY 01 TO YEAR 93 MO 05 DAY 31  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

\*\*\* NO DISCHARGE [ ] \*\*\*

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	X	(3 Card Only) QUANTITY OR LOADING (46-53)			(4 Card Only) QUALITY OR CONCENTRATION (38-45) (46-53) (54-61)			NO. EX (62-63)	FREQUENCY OF ANALYSIS (64-68)	SAMPLE TYPE (69-70)
		AVERAGE	MAXIMUM	UNITS	MINIMUM	AVERAGE	MAXIMUM			
OXIDANTS, TOTAL RESIDUAL 34044 1 0 0	SAMPLE MEASUREMENT	*****	*****	( )	*****	0.03	0.40	( 19 ) MG/L	0	99/99 RC
EFFLUENT GROSS VALUE FLOW, IN CONDUIT OR THRU TREATMENT PLANT 50050 1 0 0	PERMIT REQUIREMENT	*****	*****	****	*****	0.5 NO AVG	1.0 DAILY MX	MG/L		CONTINUOUS
EFFLUENT GROSS VALUE	SAMPLE MEASUREMENT	3.8	*****	( 03 ) MGD	*****	*****	*****	( )	0	99/99 ES
	PERMIT REQUIREMENT	19.4 NO AVG	*****	MGD	*****	*****	*****	****		CONTINUOUS
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									
	SAMPLE MEASUREMENT									
	PERMIT REQUIREMENT									

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  
L.L. SCHMELING  
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.)

*L.L. Schmeling*  
 SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT

TELEPHONE 508 747-8100  
 DATE 93 06 09  
 AREA CODE NUMBER 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.



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

NAME BOSTON EQ #1 PILGRIM PLANT  
 ADDRESS ROCKY HILL ROAD  
RED #1  
PLYMOUTH MA 02360

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

MA0003557  
 PERMIT NUMBER

011 A  
 DISCHARGE NUMBER

MAJOR (SUBR S)  
 F - FINAL  
 MAKE UP WATER AND DEMINERALIZE

Form Approved  
 OMB No. 2040-0004

FACILITY  
 LOCATION

ATTN: L.L. SCHMELING, PLANT MANAGER

MONITORING PERIOD  
 FROM YEAR 93 MO 05 DAY 01 TO YEAR 93 MO 05 DAY 31  
(20-21) (22-23) (24-25) (26-27) (28-29) (30-31)

\*\*\* NO DISCHARGE [ ] \*\*\*

NOTE: Read instructions before completing this form.

PARAMETER (32-37)	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	UNITS			
SOLIDS, TOTAL SUSPENDED		*****	*****	( )	*****	7.9	11.1	(19)		0	01/BA GR
00530 1 0 0		*****	*****	****	*****	30	100				ONCE/ GRAB
EFFLUENT GROSS VALUE				****		NO AVG	DAILY MX	MG/L			BATCH
FLOW IN CONDUIT OR THRU TREATMENT PLANT		0.0004	0.0005	(03)	*****	*****	*****	( )		0	WH/DS ES
50050 1 0 0		0.015	0.06	MB-D	*****	*****	*****	****			WHEN ESTIMA
EFFLUENT GROSS VALUE		NO AVG	DAILY MX	MGD				****			DISCHR

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  L.L. SCHMELING PLANT MANAGER  TYPED OR PRINTED	I CERTIFY UNDER PENALTY OF LAW THAT I HAVE PERSONALLY EXAMINED AND AM FAMILIAR WITH THE INFORMATION SUBMITTED HEREIN AND BASED ON MY INQUIRY OF THOSE INDIVIDUALS IMMEDIATELY RESPONSIBLE FOR OBTAINING THE INFORMATION I BELIEVE THE SUBMITTED INFORMATION IS TRUE ACCURATE AND COMPLETE I AM AWARE THAT THERE ARE SIGNIFICANT PENALTIES FOR SUBMITTING FALSE INFORMATION INCLUDING THE POSSIBILITY OF FINE AND IMPRISONMENT SEE 18 U.S.C. § 1001 AND 33 U.S.C. § 1319. (Penalties under these statutes may include fines up to \$10,000 and/or maximum imprisonment of between 6 months and 5 years.)	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  W. Schmeling	TELEPHONE	DATE		
			508 747-8100	93	06	09

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