



Entergy Nuclear Operations, Inc.  
Pilgrim Nuclear Power Station  
600 Rocky Hill Road  
Plymouth, MA 02360

David E. Noyes, Director  
Regulatory & Performance Improvement

ENV 1.14-012

November 21, 2014

U.S. Environmental Protection Agency  
Water Enforcement, OES4-SMR  
5 Post Office Square, Suite 100  
Boston, MA 02109-3912

Massachusetts Department of Environmental Protection  
Southeast Regional Office  
20 Riverside Drive  
Lakeville, MA 02347

Subject: Discharge Monitoring Report — October 2014  
NPDES Permit Number MA0003557

Dear Sir or Madam:

Enclosed is the October 2014 Discharge Monitoring Report (DMR) for Pilgrim Nuclear Power Station, NPDES Permit Number MA0003557 (Federal) and Number 359 (State). Also included is a summary of the discharge data for the month along with notes and additional information (Attachment 1).

Should you have any questions about this report please direct them to Mr. Joseph Egan, Chemistry Department (Environmental), Pilgrim Nuclear Power Station, (508) 830-8915.

Sincerely,

A handwritten signature in black ink that reads "D. E. Noyes".

David E. Noyes

JWE/

Attachments: 1. Summary – Additional Information for October 2014 DMR  
2. Discharge Monitoring Report (completed DMR forms)



## ATTACHMENT 1 to Letter ENV 1.14-012

## Summary — Additional Information for October 2014 D.M.R.

Pilgrim Nuclear Power Station – Discharge Monitoring Report

In accordance with the Federal Clean Water Act, as amended (33 USC 1251 et seq.), 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.

I. Discharge Points Covered in this Report

<u>Outfall No.</u>	<u>Discharge Identification</u>
001-1	Condenser Cooling Water (or Circ. Water System)
002-1	Thermal Backwash for Biofouling Control
003-A	Intake Screen Wash
004, 005, 006, and 007	Yard (Storm) Drains – Spring and Fall only
008-A	Sea Foam Suppression
010-A	Service Cooling Water (or Salt Service Water System)
011-A	Makeup Water and Demineralizer Waste Discharge (Neutralizing Sump and others)

II. Summary and Notes of Discharge Report

- A. The flows from discharge points 001, 002, 003, 008 and 010 are calculated from estimated pump capacity and cumulative hours of pump operation. The flow from point 001 is estimated assuming a Circulating Water pump capacity of 155,000 GPM (as described in Pilgrim's "§308 Response" letter dated July 1, 2008 from Goodwin Procter to U.S. EPA). The flow from point 011 is estimated from the volume discharged.
- B. The temperatures at discharge points 001 and 002 are measured by resistance temperature detectors (RTDs) and compiled as one minute values.
- C. Chlorination of the condenser cooling water (discharge point #001) was performed on 22 days this month, for no more than 2 hours per day.
- D. During occasional periods of increased debris-loading in the intake cooling water, the sluice water from the traveling screens (point #003) is diverted to the discharge canal.
- E. Grab samples for the four storm water outfalls are to be collected and analyzed twice per year in accordance with 40 CFR 136. Results for the fall semi-annual sampling requirement (which was scheduled for the month of September) are enclosed. Three of the four outfalls were sampled on October 16th, since this was the first suitable sampling opportunity this fall. Samples were not able to be collected from the other outfall (#004) due to insufficient storm drain flow within the first hour of the storm.

II. Summary and Notes of Discharge Report (continued)

- F. Thermal backwashing for macroinvertebrate control was performed on October 24, 2014. The pH of the water from discharge point #002 did not vary more than 0.5 standard units from that of ambient sea water. The average temperature of the water discharged during the thermal backwashing was 106.3 °F and the maximum temperature was 107.2 °F.
  
- G. There was a brief fish impingement incident at Pilgrim Station this month, primarily involving juvenile Atlantic menhaden, which was previously reported to U.S. EPA and MDEP in an e-mail message dated October 30, 2014. The maximum impingement rate was 114 fish/hour, which was observed during a screenwash on October 25. It appears that this impingement was not caused by any change in conditions related to Pilgrim Station but was due to natural circumstances. Based on the number of fish involved, it is expected that this incident will not have a lasting effect on these species.
  
- H. On October 14, 2014 it was discovered that several manhole vaults at the site were being automatically pumped, directly or indirectly, to the storm drain system. This pumping equipment was taken out of service on the same day, so this input has ceased. This condition was discussed with U.S. EPA on November 5. Although this flow path is not specified in the current permit, the water sampled from these manhole vaults has met the NPDES Permit water quality limits for storm drains.

There was no environmental impact apparent as a result of this occurrence and none would be expected given the water quality, the low flow rate and the rapid dilution occurring in the intake embayment (from drain #007) or discharge canal (from drains #004 and #005).

- I. During routine chlorination of the circulating water system on October 1, 2014 the screenwash dechlorination pumps were not initially aligned for auto-start when injection commenced at noon. This lapse was corrected 7 minutes later, when the Operator turned on the dechlorination pumps after noticing that they didn't automatically start. As a result, there was a brief period (12:00 – 12:07 hrs.) during which the screenwash water may have contained residual chlorine. The TRO concentration during this brief incident was not measured, but is suspected to have been less than 0.5 mg/L.

This incident occurred because of two causes: 1) the screenwash dechlorination pumps were switched OFF without administrative controls to ensure they would be placed back in service prior to hypochlorite injection and, 2) the procedure lacked steps to verify that the dechlorination pumps were operating prior to initiating circulating water system (condenser) chlorination. Actions have been taken to address these causes and prevent reoccurrence of this condition.

There was no observed environmental impact as a result of this occurrence and none was expected due to the brief duration of this condition. No fish were present in the scheduled screenwash collection just after this incident (from 4:40 to 5:40 pm) on the same day.

**ATTACHMENT 2**  
to Letter ENV 1.14-012

**COMPLETED**  
**DISCHARGE MONITORING REPORT**  
**FORMS**

**(10 pages of DMR Forms enclosed)**

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

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)  
**NAME:** ENERGY - PILGRIM NUCLEAR POWER STATION  
**ADDRESS:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**FACILITY:** ENERGY - PILGRIM NUCLEAR POWER STATION  
**LOCATION:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360

ATTN: John Macdonald, Oper. Mang.

MA0003557	001-1
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
10/01/2014	10/31/2014

DMR Mailing ZIP CODE: 02360-5508  
 MAJOR (SUBR S)  
 CONDENSER COOLING WATER  
 External Outfall

No Discharge

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	UNITS				
Temperature, water deg. fahrenheit	00011 0	*****	*****	*****	*****	95.2	deg F	0	99/99	RC
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	102	deg F		Continuous	RCORDR
Oxidants, total residual	SAMPLE MEASUREMENT	*****	*****	*****	*****	0.03	mg/L	0	Wh/Ds	GR
PERMIT REQUIREMENT	PERMIT REQUIREMENT	*****	*****	*****	*****	.1	mg/L		When Discharging	GRAB
Flow, in conduit or thru treatment plant	SAMPLE MEASUREMENT	443.9	MGD	446.4	MGD	*****	*****	0	99/99	ES
PERMIT REQUIREMENT	PERMIT REQUIREMENT	447	MGD	510	MGD	*****	*****		Continuous	ESTIMA
Effluent Gross	SAMPLE MEASUREMENT	*****	*****	*****	*****	30.4	deg F	0	99/99	CA
Temp. diff. between intake and discharge	PERMIT REQUIREMENT	*****	*****	*****	*****	32	deg F		Continuous	CALCTD
Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	*****	*****	*****		*****	*****

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
John Macdonald Oper. Mgr.	508-830-8117	11/21/2014
TYPED OR PRINTED	AREA Code	NUMBER
	508	8117
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
<i>John S. Macdonald</i>		

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 PH SHALL NOT VARY MORE THAN 0.5 PHSTANDARD 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 NET SHALL BE MAINTAINED AT THE THERMAL END OF DISCHARGE CANAL AT ALL TIMES.

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

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (Include Facility Name/Location if Different)  
**NAME:** ENERGY - PILGRIM NUCLEAR POWER STATION  
**ADDRESS:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**FACILITY:** ENERGY - PILGRIM NUCLEAR POWER STATION  
**LOCATION:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360

ATTN: John Macdonald, Oper. Mang.

DMR Mailing ZIP CODE:  
 MAJOR 02360-5508  
 (SUBR S)  
 THERMAL BACKWASH  
 External Outfall

No Discharge

MA0003557	002-1
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
10/01/2014	10/31/2014

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
Temperature, water deg. fahrenheit	*****	*****	*****	107.2	°F	*****	0	99/99	RC
00011 1 0 Effluent Gross	*****	*****	*****	120	deg F	*****		Continuous	RCORDR
Flow, in conduit or thru treatment plant	*****	14.7	MGD	*****	*****	*****	0	Wh/Ds	ES
50050 1 0 Effluent Gross	*****	255	MGD	*****	*****	*****		When Discharging	ESTIMA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
John Macdonald Oper. Mgr	508-830-8117	11/21/2014
TYPED OR PRINTED	AREA Code	NUMBER
	508	817
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
<i>John B Macdonald</i>		
MM/DD/YYYY		

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision and that I am a duly licensed professional property gatherer and that the information submitted hereon is true and correct. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS 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 THE FREQUENCY OF DISCHARGE.

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

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)  
**NAME:** ENTERGY - PILGRIM NUCLEAR POWER STATION  
**ADDRESS:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**FACILITY:** ENTERGY - PILGRIM NUCLEAR POWER STATION  
**LOCATION:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**ATTN:** John Macdonald, Oper. Mang.

**DMR Mailing ZIP CODE:**  
 MAJOR  
 (SUBR S)  
 INTAKE SCREEN WASH  
 External Outfall

02360-5508

No Discharge

MA0003557	003-A
PERMIT NUMBER	DISCHARGE NUMBER
MM/DD/YYYY	MM/DD/YYYY
10/01/2014	10/31/2014
MONITORING PERIOD	

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	UNITS			
Flow, in conduit or thru treatment plant		2.4	MGD	*****	*****	*****	0	01/01	ES
50050 1 0 Effluent Gross	PERMIT REQUIREMENT	4.1 MO AVG	MGD	*****	*****	*****		Daily	ESTIMA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER  John Macdonald Oper. Mgr.	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	TELEPHONE	DATE
		508-830-8117	11/21/2014
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  <i>John Macdonald</i>		AREA Code	NUMBER
TYPED OR PRINTED		508	8117
		MM/DD/YYYY	

COMMENTS 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 INTAKESCREEN SHOULD BE RETURNED TO WATEROF AMBIENT TEMP. SUFFICIENTLY DISTAN FORM INTAKE STRUCTURES TO PREVENT REIMPINGEMENT.

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

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)  
 NAME: ENERGY - PILGRIM NUCLEAR POWER STATION  
 ADDRESS: 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
 FACILITY: ENERGY - PILGRIM NUCLEAR POWER STATION  
 LOCATION: 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
 ATTN: John Macdonald, Oper. Mang.

MA0003557	004-A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
09/01/2014	10/31

DMR Mailing ZIP CODE: 02360-5508  
 MAJOR (SUBR S)  
 YARD DRAINS  
 External Outfall

No Discharge  F

PARAMETER	SAMPLE MEASUREMENT	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
		VALUE	UNITS	VALUE	VALUE	UNITS				
Solids, total suspended	PERMIT REQUIREMENT	*****	*****	*****	*****		0	02/yr	GR	
00530 1 0 Effluent Gross Oil & Grease	SAMPLE MEASUREMENT	*****	*****	30 MO AVG	100 DAILY MX	mg/L		Twice Per Year	GRAB	
00556 1 0 Effluent Gross	PERMIT REQUIREMENT	*****	*****	*****	15 DAILY MX	mg/L	0	02/yr	GR	
		*****	*****	*****	*****			Twice Per Year	GRAB	

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
John Macdonald Oper. Mgr.	508-830-8117	10/20/14
TYPED OR PRINTED	AREA Code	NUMBER
	508	830-8117
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		MM/DD/YYYY
<i>John B Macdonald</i>		10/20/14

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 Enter NOD| Code C for no discharge



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

Form Approved  
OMB No. 2040-0004


PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)  
**NAME:** ENTERGY - PILGRIM NUCLEAR POWER STATION  
**ADDRESS:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**FACILITY:** ENTERGY - PILGRIM NUCLEAR POWER STATION  
**LOCATION:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**ATTN:** John Macdonald, Oper. Mang.

MA0003557	005-A
<b>PERMIT NUMBER</b>	<b>DISCHARGE NUMBER</b>
<b>MONITORING PERIOD</b>	
MM/DD/YYYY	MM/DD/YYYY
08/01/2014	08/30/2014
10	10/31

**DMR Mailing ZIP CODE:** 02360-5508  
**MAJOR**  
 (SUBR S)  
**YARD DRAINS**  
 External Outfall

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
Solids, total suspended	*****	*****	*****	4.2	mg/L	4.2	0	02/yr.	GR
00530 1 0 Effluent Gross Oil & Grease	*****	*****	*****	30 MO AVG	mg/L	100 DAILY MX		Twice Per Year	GRAB
	*****	*****	*****	< 4.0	mg/L	< 4.0	0	02/yr.	GR
00556 1 0 Effluent Gross	*****	*****	*****	Req. Mon. AVERAGE	mg/L	15 DAILY MX		Twice Per Year	GRAB

<b>NAME/TITLE PRINCIPAL EXECUTIVE OFFICER</b>  John Macdonald Oper. Mgr.  TYPED OR PRINTED	I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.	SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT  	TELEPHONE	DATE
			508-830-8117 AREA Code NUMBER	11/21/2014 MM/DD/YYYY

**COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)**  
 Enter NODI Code C for no discharge

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

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)  
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**ADDRESS:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**FACILITY:** ENTERGY - PILGRIM NUCLEAR POWER STATION  
**LOCATION:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**ATTN:** John Macdonald, Oper. Mang.

MA0003557	006-A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
09/01/2014	09/30/2014
10	10/31

DMR Mailing ZIP CODE: 02360-5508  
 MAJOR (SUBR S)  
 YARD DRAINS  
 External Outfall

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
Solids, total suspended	*****	*****	*****	1.2	mg/L	1.2	0	02/yr	GR
00530 1 0 Effluent Gross Oil & Grease	*****	*****	*****	30 MO AVG	mg/L	100 DAILY MX		Twice Per Year	GRAB
	*****	*****	*****	< 4.0	mg/L	< 4.0	0	02/yr	GR
00556 1 0 Effluent Gross	*****	*****	*****	Req. Mon. AVERAGE	mg/L	15 DAILY MX		Twice Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
John Macdonald Oper. Mgr.	508-830-8117	11/21/2014
TYPED OR PRINTED	AREA Code NUMBER	MM/DD/YYYY
	508-830-8117	11/21/2014
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
<i>John S. Macdonald</i>		

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 Enter NODI Code C for no discharge

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

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)  
**NAME:** ENERGY - PILGRIM NUCLEAR POWER STATION  
**ADDRESS:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**FACILITY:** ENERGY - PILGRIM NUCLEAR POWER STATION  
**LOCATION:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**ATTN:** John Macdonald, Oper. Mang.

MA0003557	007-A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
08/01/2014	08/28/2014
10	10/31

DMR Mailing ZIP CODE: 02360-5508  
 MAJOR (SUBR S)  
 YARD DRAINS  
 External Outfall

No Discharge

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
Solids, total suspended	*****	*****	*****	1.8	mg/L	1.8	0	02/yr	GR
00530 1 0 Effluent Gross Oil & Grease	*****	*****	*****	30 MO AVG	mg/L	100 DAILY MX		Twice Per Year	GRAB
	*****	*****	*****	< 4.0	mg/L	< 4.0	0	02/yr	GR
00556 1 0 Effluent Gross	*****	*****	*****	Req. Mon. AVERAGE	mg/L	15 DAILY MX		Twice Per Year	GRAB

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
John Macdonald Oper. Mgr.	508-830-8117	11/21/2014
TYPED OR PRINTED	AREA Code	NUMBER
	508	8117
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		MMDDYYYY
<i>John Macdonald</i>		11/21/2014

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who furnished the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS AND EXPLANATION OF ANY VIOLATIONS (Reference all attachments here)  
 Enter NODI Code C for no discharge

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

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)  
**NAME:** ENERGY - PILGRIM NUCLEAR POWER STATION  
**ADDRESS:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**FACILITY:** ENERGY - PILGRIM NUCLEAR POWER STATION  
**LOCATION:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**ATTN:** John Macdonald, Oper. Mang.

MA0003557	008-A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
10/01/2014	10/31/2014

DMR Mailing ZIP CODE: 02360-5508  
 MAJOR (SUBR S)  
 SEA FOAM SUPPRESSION DISCHARGE  
 External Outfall

No Discharge  C

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS			
Flow, in conduit or thru treatment plant		MGD	*****	*****	*****	0	01/01	ES
50050 1 0 Effluent Gross	.73 MO AVG	MGD	*****	*****	*****		Daily	ESTIMA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
John Macdonald Oper. Mgr.	508-830-8117	11/21/2014
TYPED OR PRINTED	AREA Code NUMBER	MM/DD/YYYY
	508-830-8117	11/21/2014
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
<i>John B. Macdonald</i>		

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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

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

Form Approved  
OMB No. 2040-0004

PERMITTEE NAME/ADDRESS (include Facility Name/Location if Different)  
**NAME:** ENERGY - PILGRIM NUCLEAR POWER STATION  
**ADDRESS:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**FACILITY:** ENERGY - PILGRIM NUCLEAR POWER STATION  
**LOCATION:** 600 ROCKY HILL ROAD  
 PLYMOUTH, MA 02360  
**ATTN:** John Macdonald, Oper. Mang.

MA0003557	010-A
PERMIT NUMBER	DISCHARGE NUMBER
MONITORING PERIOD	
MM/DD/YYYY	MM/DD/YYYY
10/01/2014	10/31/2014

DMR Mailing ZIP CODE: 02360-5508  
 MAJOR (SUBR S)  
 PLANT SERVICE COOLING WATER  
 External Outfall  
 No Discharge

PARAMETER	QUANTITY OR LOADING		QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS			
Oxidants, total residual	*****	*****	0.25	0.61	mg/L	0	02/01	GR
34044 1 0 Effluent Gross	*****	*****	.5 MO AVG	1 DAILY MX	mg/L		Continuous	RCORDR
Flow, in conduit or thru treatment plant	11.8	MGD	*****	*****	*****	0	99/99	ES
50050 1 0 Effluent Gross	19.4 MO AVG	MGD	*****	*****	*****		Continuous	ESTIMA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
John Macdonald Oper. Mgr.	508-830-8117	11/21/2014
TYPED OR PRINTED	AREA Code	NUMBER
	508	8117
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		MM/DD/YYYY
<i>John S. Macdonald</i>		11/21/2014

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

COMMENTS 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.

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

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

NAME: ENERGY - PILGRIM NUCLEAR POWER STATION  
ADDRESS: 600 ROCKY HILL ROAD  
PLYMOUTH, MA 02360  
FACILITY: ENERGY - PILGRIM NUCLEAR POWER STATION  
LOCATION: 600 ROCKY HILL ROAD  
PLYMOUTH, MA 02360  
ATTN: John Macdonald, Oper. Mang.

MA0003557	011-A
PERMIT NUMBER	DISCHARGE NUMBER
MM/DD/YYYY	MM/DD/YYYY
10/01/2014	10/31/2014
MONITORING PERIOD	

DMR Mailing ZIP CODE: 02360-5508  
MAJOR (SUBR S)  
MAKE UP WATER AND DEMINERALIZE  
External Outfall

No Discharge  C

PARAMETER	QUANTITY OR LOADING			QUALITY OR CONCENTRATION			NO. EX	FREQUENCY OF ANALYSIS	SAMPLE TYPE
	VALUE	UNITS	VALUE	VALUE	UNITS	VALUE			
Solids, total suspended	*****	*****	*****	*****	*****	*****	0	01/Ba	GR
00530 1 0 Effluent Gross	*****	*****	*****	30 MO AVG	*****	100 DAILY MX		Once Per Batch	GRAB
Flow, in conduit or thru treatment plant		MGD	*****	*****	*****	*****	0	Wh/Ds	ES
50050 1 0 Effluent Gross	.015 MO AVG	MGD	*****	*****	*****	*****		When Discharging	ESTIMA

NAME/TITLE PRINCIPAL EXECUTIVE OFFICER	TELEPHONE	DATE
John Macdonald Oper. Mgr	508-830-8117	11/21/2014
TYPED OR PRINTED	AREA Code	NUMBER
	508	830-8117
SIGNATURE OF PRINCIPAL EXECUTIVE OFFICER OR AUTHORIZED AGENT		
<i>John Macdonald</i>		
MM/DD/YYYY		
11/21/2014		

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

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