



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**  
REGION I  
2100 RENAISSANCE BLVD.  
KING OF PRUSSIA, PA 19406-2713

August 28, 2017

Mr. Brian Sullivan  
Site Vice President  
Entergy Nuclear Operations, Inc.  
600 Rocky Hill Road  
Plymouth, MA 02360-5508

**SUBJECT: QUARTERLY ASSESSMENT AND UPDATED INSPECTION PLAN FOR  
PILGRIM NUCLEAR POWER STATION (REPORT 05000293/2017005)**

Dear Mr. Sullivan:

The U.S. Nuclear Regulatory Commission (NRC) completed its quarterly performance assessment of Pilgrim Nuclear Power Station (Pilgrim) on August 9, 2017, reviewing performance indicators, inspection results, and enforcement actions from July 1, 2016 through June 30, 2017. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. The NRC concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Pilgrim remains in Column 4, or the Multiple/Repetitive Degraded Cornerstone Column, of the NRC's Reactor Oversight Process (ROP) Action Matrix in Inspection Manual Chapter (IMC) 0305, "Operating Reactor Assessment Program." As described in the mid-cycle assessment letter dated September 1, 2015 (ML15243A259<sup>1</sup>), this was due to the issuance of an additional White finding in the Mitigating Systems cornerstone while Pilgrim was in the Degraded Cornerstone Column (Column 3) of the ROP Action Matrix for more than five consecutive quarters. While the plant remains in Column 4, the NRC will continuously assess Pilgrim's performance to evaluate the need for additional regulatory action. To date, our inspections and assessment have determined that Pilgrim continues to operate safely, and at this time additional regulatory action beyond Column 4 is not required.

The NRC completed the Inspection Procedure (IP) 95003 inspection, as required by IMC 0305 for all Column 4 plants. The inspection was conducted in three phases ('A' through 'C') (ML16060A018, ML16144A027, and ML17129A217) and in accordance with IMC 0305.

The results of the inspection were used to inform the Confirmatory Action Letter (CAL) issued on August 2, 2017 (ML17214A088). The CAL confirmed Entergy's commitment to perform specific corrective actions to resolve the causes for the performance decline that led to Pilgrim's transition to the Multiple/Repetitive Degraded Cornerstone Column. The NRC will conduct quarterly CAL follow-up inspections beginning in the 4<sup>th</sup> quarter of 2017 to ensure adequate actions are taken to complete the CAL commitments. The results of these inspections will support the future performance assessments of Pilgrim that the NRC will use to determine

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<sup>1</sup> The designation in parentheses refers to an Agencywide Documents Access and Management System (ADAMS) Accession Number. Documents referenced in this letter are publicly available using the Accession Number in ADAMS.

whether the CAL can be closed, and whether, in accordance with IMC 0305, Pilgrim should transition out of Column 4 of the ROP Action Matrix, or the NRC should take additional regulatory action in accordance with IMC 0305.

NRC senior management will continue to conduct quarterly reviews of Pilgrim performance to assess the effectiveness of improvement efforts. The NRC added resources to support additional inspection at the Pilgrim site, and has also engaged, and will continue to engage, Entergy Nuclear Operations, Inc. with more frequent site visits.

The enclosed inspection plan lists the inspections scheduled through June 30, 2019, for Pilgrim. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. The NRC will contact you as soon as possible to discuss changes to the inspection plan should circumstances warrant any changes. This inspection plan does not include the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

In addition to normal baseline inspections, the NRC will be performing Inspection Procedure 60855.1, "Operation of an ISFSI at Operating Plants." Additionally, the NRC will be performing Inspection Procedure 92723, "Follow-Up Inspection for Three or More Severity Level IV Traditional Enforcement Violations in the Same Area in a 12-Month Period," and Inspection Procedure 92702, "Follow-Up on Traditional Enforcement Actions Including Violations, Deviations, Confirmatory Action Letters, Confirmatory Orders, and Alternative Dispute Resolution Confirmatory Orders."

Lastly, the NRC identified a cross-cutting theme in the Human Performance area. Specifically, 22 findings have had a cross-cutting aspect in this area, with one aspect, Procedure Adherence [H.8] crossing the threshold for a theme with six aspects. The NRC will continue to monitor your staff's effort and progress in addressing the theme until the theme criterion is no longer met.

Please contact Arthur Burritt at 610-337-5069 with any questions you have regarding this letter.

Sincerely,

*/RA/*

Daniel H. Dorman  
Regional Administrator

Docket No. 50-293  
License No. DPR-35

Enclosure:  
Inspection Plan

cc: Distribution via ListServ

SUBJECT: QUARTERLY ASSESSMENT AND UPDATED INSPECTION PLAN FOR  
 PILGRIM NUCLEAR POWER STATION (REPORT 05000293/2017005) dated  
 August 28, 2017

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ADAMS ACCESSION NUMBER: **ML17237A163**

<input checked="" type="checkbox"/> SUNSI Review		<input checked="" type="checkbox"/> Non-Sensitive <input type="checkbox"/> Sensitive		<input checked="" type="checkbox"/> Publicly Available <input type="checkbox"/> Non-Publicly Available	
OFFICE	RI/DRP	RI/DRP	R1/DRP	R1/ORA	
NAME	MCatts	ABurritt	RLorson	DDorman	
DATE	8/10/17	8/9/17	8/10/17	8/10/17	

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**Pilgrim**  
**Inspection / Activity Plan**  
**07/01/2017 - 06/30/2019**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>711121M - DESIGN BASES ASSURANCE INSPECTION (TEAM)</b>		<b>6</b>
1	07/31/2017	08/04/2017	IP 711121M	Design Bases Assurance Inspection (Teams)	
1	08/14/2017	08/18/2017	IP 711121M	Design Bases Assurance Inspection (Teams)	
			<b>711111B - PILGRIM REQUAL INSP W/ P/F RESULTS</b>		<b>2</b>
1	09/25/2017	09/29/2017	IP 711111A	Licensed Operator Requalification Program - Annual Review	
1	09/25/2017	09/29/2017	IP 711111B	Licensed Operator Requalification Program	
			<b>71124 - 71124.06 .03 RETS &amp; AIRBORNE</b>		<b>1</b>
1	08/07/2017	08/11/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	08/07/2017	08/11/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			<b>71152B - PI&amp;R BIENNIAL</b>		<b>5</b>
1	09/11/2017	09/15/2017	IP 71152B	Problem Identification and Resolution	
1	09/25/2017	09/29/2017	IP 71152B	Problem Identification and Resolution	
			<b>71124 - 71124.07 REMP</b>		<b>1</b>
1	09/18/2017	09/21/2017	IP 71124.07	Radiological Environmental Monitoring Program	
			<b>71124 - 71151 PI VERIFY 71124.01 .02 .03 .06 .07</b>		<b>1</b>
1	11/27/2017	11/30/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/27/2017	11/30/2017	IP 71124.02	Occupational ALARA Planning and Controls	
1	11/27/2017	11/30/2017	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	11/27/2017	11/30/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
1	11/27/2017	11/30/2017	IP 71124.07	Radiological Environmental Monitoring Program	
1	11/27/2017	11/30/2017	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	11/27/2017	11/30/2017	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>EP - EP PROGRAM INSPECTION</b>		<b>2</b>
1	11/27/2017	12/01/2017	IP 7111402	Alert and Notification System Testing	
1	11/27/2017	12/01/2017	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	11/27/2017	12/01/2017	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	11/27/2017	12/01/2017	IP 71151	Performance Indicator Verification	
			<b>71124.01 - 01 EXPOSURE CONTROL</b>		<b>1</b>
1	04/09/2018	04/12/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			<b>ISFSI - ISFSI LOADING CAMPAIGN INSPECTION</b>		<b>3</b>
1	07/09/2018	07/13/2018	IP 60855	Operation Of An ISFSI	
1	07/09/2018	07/13/2018	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	

This report does not include INPO and OUTAGE activities.  
This report shows only on-site and announced inspection procedures.

Enclosure

**Pilgrim**  
**Inspection / Activity Plan**  
**07/01/2017 - 06/30/2019**

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			<b>EP - EP EXERCISE INSPECTION</b>		<b>4</b>
1	11/05/2018	11/09/2018	IP 7111401	Exercise Evaluation	
1	11/05/2018	11/09/2018	IP 71151	Performance Indicator Verification	
			<b>7111105T - TRIENNIAL FIRE PROTECTION</b>		<b>4</b>
1	10/22/2018	10/26/2018	IP 7111105T	Fire Protection [Triennial]	
1	11/05/2018	11/09/2018	IP 7111105T	Fire Protection [Triennial]	
			<b>71124 - IP 71151 PI VERIFY IP 71124.01 RAD HAZ</b>		<b>1</b>
1	11/26/2018	11/29/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	11/26/2018	11/29/2018	IP 71151-OR01	Occupational Exposure Control Effectiveness	
1	11/26/2018	11/29/2018	IP 71151-PR01	RETS/ODCM Radiological Effluent Occurrences	
			<b>7111121N - EQ PROGRAM</b>		<b>3</b>
1	04/22/2019	04/26/2019	IP 7111121N	Design Bases Assurance Inspection (Programs)	
1	05/06/2019	05/10/2019	IP 7111121N	Design Bases Assurance Inspection (Programs)	
			<b>7111117T - 50.59 PROCESS</b>		<b>3</b>
1	06/10/2019	06/14/2019	IP 7111117T	Evaluations of Changes, Tests, and Experiments	

This report does not include INPO and OUTAGE activities.  
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