



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION III
2443 WARRENVILLE RD. SUITE 210
LISLE, IL 60532-4352

August 31, 2016

Mr. Brian D. Boles
Site Vice President
FirstEnergy Nuclear Operating Company
Davis-Besse Nuclear Power Station
5501 North State Route 2
Oak Harbor, OH 43449-9760

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR DAVIS-BESSE NUCLEAR POWER
STATION (REPORT 05000346/2016005)**

Dear Mr. Boles:

On August 10, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-cycle performance review of Davis-Besse Nuclear Power Station. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from July 1, 2015, through June 30, 2016. This letter informs you of the NRC's assessment of your facility during that period and its plans for future inspections at your facility.

The NRC determined the performance at Davis-Besse Nuclear Power Station during the most recent quarter was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because of one or more greater-than-green Security Cornerstone inputs as described in Inspection Report 05000346/2015409 (ADAMS Accession Number ML16025A101) sent on January 25, 2016. The NRC conducted an inspection in accordance with Inspection Procedure (IP) 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," and documented the results in Inspection Report 05000346/2016408 (ADAMS Accession Number ML16223A877) sent on August 10, 2016. Thus, in accordance with the guidance in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program," this Greater-Than-Green finding will only be considered in assessing plant performance through the completion of the third quarter of 2016.

Davis-Besse also remains in the Regulatory Response Column with one PI in the Unplanned SCRAMS with Complications that crossed the green-to-white threshold input as described in Inspection Report 05000346/2016001 (ADAMS Accession Number ML16118A435) sent on April 26, 2016. Therefore, in addition to ROP baseline inspections, the NRC will conduct a supplemental inspection in accordance with IP 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area" when your staff has notified us of your readiness for the inspection of your actions to address the conditions that resulted in the White PI. This IP is conducted to provide assurance that the root cause and contributing cause of risk significant performance issues related to the Unplanned SCRAMS with Complications PI are understood, the extent of condition and the extent of cause are identified, and the corrective actions are sufficient to prevent recurrence.

The enclosed inspection plan lists the inspections scheduled through June 30, 2018. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the second half of the inspection plan are tentative and may be revised at the end-of-cycle performance review. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. 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 security related inspections, which will be sent via separate, non-publicly available, correspondence.

The NRC inspection schedule includes an IP 711105T, "Triennial Fire Protection Inspection," in November 2016 and a FLEX/Mitigating Strategies inspection under Temporary Instruction (TI) 2515/191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans." presently scheduled for March 2017.

In response to the accident at Fukushima, the Commission issued Order EA-12-049, "Order Modifying Licenses with Regard to Requirements for Mitigation Strategies for Beyond-Design-Basis External Events," and Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." The NRC conducted audits of licensee efforts towards compliance with these Orders, and the information gathered will aid staff in development of the ultimate Safety Evaluation for the site. After the NRC staff receives the final compliance letter for the site, the Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing TI 2515/191 as stated above.

In Staff Requirements Memorandum – SECY 16-0009, "Recommendations Resulting from the Integrated Prioritization and Re-Baselining of Agency Activities," the Commission approved the NRC staff recommendation to discontinue the formal mid-cycle assessment process beginning in calendar year 2017. Therefore, this will be the final mid-cycle assessment letter. The staff will continue to conduct quarterly assessments and communicate changes in the assessment of licensee performance in accordance with the guidance in Inspection Manual Chapter 0305, "Operating Reactor Assessment Program."

In accordance with Title 10 of the *Code of Federal Regulations* (10 CFR) 2.390 of the NRC's "Rules of Practice," a copy of this letter will be available electronically for public inspection in the NRC Public Document Room or from the Publicly Available Records (PARS) component of NRC's document system (ADAMS). ADAMS is accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

B. Boles

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Please contact Mr. Jamnes Cameron, DRP, Chief, Branch 4, at 630-829-9833 with any questions you have regarding this letter.

Sincerely,

/RA/

Patrick L. Loudon, Director
Division of Reactor Projects

Docket No. 50-346
Licensee No. NPF-3

Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

B. Boles

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Please contact Mr. Jamnes Cameron, DRP, Chief, Branch 4, at 630-829-9833 with any questions you have regarding this letter.

Sincerely,

/RA/

Patrick L. Louden, Director
Division of Reactor Projects

Docket No. 50-346
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Enclosure:
Inspection Plan

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Davis-Besse
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			ISFSI - 72.212 REVIEW AND CALC REVIEW - HEAVY LO		1
1	09/01/2016	09/30/2016	IP 60856.1	Review of 10 CFR 72.212(b) Evaluations at Operating Plants	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	09/26/2016	09/30/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	09/26/2016	09/30/2016	IP 71124.04	Occupational Dose Assessment	
			BI EP - EP BASELINE INSPECTION / PI VERIFICATION		1
1	09/26/2016	09/30/2016	IP 7111402	Alert and Notification System Testing	
1	09/26/2016	09/30/2016	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
1	09/26/2016	09/30/2016	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
1	09/26/2016	09/30/2016	IP 71151	Performance Indicator Verification	
			ENG BI - TRIENNIAL FIRE PROTECTION INSPECTION		3
1	10/31/2016	12/02/2016	IP 7111105T	Fire Protection [Triennial]	
			BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION		2
1	11/28/2016	12/02/2016	IP 7111111B	Licensed Operator Requalification Program	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	12/12/2016	12/16/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	12/12/2016	12/16/2016	IP 71124.02	Occupational ALARA Planning and Controls	
			ISFSI - FUEL CASK LOADING CAMPAIGN		2
1	01/01/2017	03/31/2017	IP 60856	Review of 10 CFR 72.212(b) Evaluations	
1	03/01/2017	04/15/2017	IP 60854.1	Preoperational Testing of Independent Spent Fuel Storage Facility Installation at Operating Plants	
1	04/01/2017	05/01/2017	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			RENEWAL - LICENSE RENEWAL INSPECTION 71003 PHASE 2		1
1	01/23/2017	02/10/2017	IP 71003	Post-Approval Site Inspection for License Renewal	
			FLEX - FLEX/MITIGATING STRATEGIES/SFPI		4
1	03/13/2017	03/17/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			BI ENG - TRIENNIAL HEAT SINK INSPECTION		2
1	03/20/2017	03/24/2017	IP 7111107T	Heat Sink Performance	
			BI EP - EP EXERCISE INSPECTION / PI VERIFICATION		5
1	05/01/2017	05/07/2017	IP 7111401	Exercise Evaluation	
1	05/01/2017	05/07/2017	IP 7111406	Drill Evaluation	
1	05/01/2017	05/07/2017	IP 7111408	Exercise Evaluation – Scenario Review	
1	05/01/2017	05/07/2017	IP 71151	Performance Indicator Verification	

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

Davis-Besse
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			BI PI&R - BIENNIAL PI&R INSPECTION		4
1	07/17/2017	08/04/2017	IP 71152B	Problem Identification and Resolution	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	05/22/2017	05/26/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	06/12/2017	06/16/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			BI MODS - TRIENNIAL MODIFICATIONS/50.59 INSPECTION		3
1	09/18/2017	10/06/2017	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		2
1	10/23/2017	10/27/2017	IP 71124.05	Radiation Monitoring Instrumentation	
1	10/23/2017	10/27/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
1	11/13/2017	11/17/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
			OL PREP - INIT EXAM/DEC 2017		3
1	11/13/2017	11/17/2017	W90353	OL - INITIAL EXAM - 2017 NOV-DEC - DAVIS-BESSE	
			OL EXAM - INIT EXAM/DEC 2017		3
1	12/04/2017	12/15/2017	W90353	OL - INITIAL EXAM - 2017 NOV-DEC - DAVIS-BESSE	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		2
1	03/05/2018	03/09/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
1	03/05/2018	03/09/2018	IP 71124.02	Occupational ALARA Planning and Controls	
1	03/05/2018	03/09/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
1	03/05/2018	03/09/2018	IP 71124.04	Occupational Dose Assessment	
			EP - EP EXERCISE INSPECTION / PI VERIFICATION		1
1	04/09/2018	04/13/2018	IP 7111401	Exercise Evaluation	
1	04/09/2018	04/13/2018	IP 7111406-Simul8r	Simulator-Based Licensed Operator Requal Training	
1	04/09/2018	04/13/2018	IP 71151	Performance Indicator Verification	

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