



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

March 4, 2011

Mr. Barry Allen  
Site Vice President  
FirstEnergy Nuclear Operating Company  
Davis-Besse Nuclear Power Station  
5501 North State Route 2, Mail Stop A-DB-3080  
Oak Harbor, OH 43449-9760

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR DAVIS-BESSE NUCLEAR  
POWER STATION, UNIT 1 (REPORT 05000346/2011001)**

Dear Mr. Allen:

On February 17, 2011, the NRC completed its end-of-cycle performance review of the Davis-Besse Nuclear Power Station. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2010, through December 31, 2010. This letter informs you of the NRC's assessment of your facility during this period and its plans for future inspections at your facility. This performance review and enclosed inspection plan do not include security information. A separate letter will include the NRC's assessment of your performance in the Security Cornerstone and its security-related inspection plan.

The NRC determined that overall, Davis-Besse Nuclear Power Station, Unit 1, operated in a manner that preserved public health and safety and met all cornerstone objectives. Plant performance for Davis-Besse Nuclear Power Station, Unit 1, was in the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix for the first three quarters of the assessment period due to a White inspection finding that was issued on December 28, 2009. The finding was closed in a letter dated December 28, 2010. The NRC determined that performance for the Davis-Besse Nuclear Power Station, Unit 1, during the fourth quarter of the assessment period was within the Licensee Response Column because all inspection findings had very low (i.e. green) safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e. green). As a result, the NRC plans to conduct ROP baseline inspections at your facility. In addition to the ROP baseline, inspections are planned for Temporary Instruction (TI) 2515/179, "Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS," TI 2515/177, "Managing Gas Accumulation in Emergency Core Cooling, Decay Heat Removal, and Containment Spray Systems," Inspection Procedure (IP) 71007, "Reactor Vessel Head Replacement Inspection," and IP 92702, "Followup on Corrective Actions for Violations and Deviations."

The NRC identified a cross-cutting theme in the Work Practices component of the Human Performance cross-cutting area. Specifically, four findings were identified with the cross-cutting aspect of work oversight (H.4(c)). The NRC determined that a substantive cross-cutting issue does not exist because the NRC does not have a concern with your staff's scope of effort and progress in addressing the cross-cutting theme. Three of the findings were related to repair activities as a result of the identification of reactor vessel head nozzle penetration cracking.

Specifically, the findings were attributed to work conducted by contractor staff. Based on our review of your actions to address this theme, we determined that you recognized the cross-cutting theme and have completed an Apparent Cause Evaluation. Your planned and implemented corrective actions address the oversight circumstances that led to the cross-cutting theme and are expected to be effective. The NRC will continue to monitor your staff's efforts and continued progress in addressing the theme.

The enclosed inspection plan lists the inspections scheduled through June 30, 2012. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last 9 months of the inspection plan are tentative and may be revised at the mid-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.

In accordance with 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).

Please contact Jamnes Cameron at 630-829-9833 with any questions you have regarding this letter.

Sincerely,

**/RA/**

Steven West, Director  
Division of Reactor Projects

Docket Nos. 50-346  
License Nos. NPF-3

Enclosure: Davis-Besse Station Inspection/Activity Plan

cc w/encl: Distribution via ListServ

**Davis-Besse**  
**Inspection / Activity Plan**  
**03/01/2011 - 06/30/2012**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>5</b>
02/14/2011	03/04/2011	IP 71152B	Identification and Resolution of Problems	
		<b>RENEWAL - LICENSE RENEWAL 71002</b>		<b>5</b>
04/25/2011	05/13/2011	IP 71002	License Renewal Inspection	
		<b>BI EP - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>3</b>
05/09/2011	05/13/2011	IP 7111401	Exercise Evaluation	
05/09/2011	05/13/2011	IP 71151	Performance Indicator Verification	
		<b>BI ENG - TRIENNIAL HEAT SINK INSPECTION</b>		<b>2</b>
06/27/2011	07/01/2011	IP 7111107T	Heat Sink Performance	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
08/08/2011	08/12/2011	IP 71124.07	Radiological Environmental Monitoring Program	
08/08/2011	08/12/2011	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>HEAD - HEAD REPLACEMENT INSPECTION</b>		<b>2</b>
09/01/2011	11/04/2011	IP 71007	Reactor Vessel Head Replacement Inspection	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
09/12/2011	09/16/2011	IP 71124.05	Radiation Monitoring Instrumentation	
09/12/2011	09/16/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
10/17/2011	10/21/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
10/17/2011	10/21/2011	IP 71124.02	Occupational ALARA Planning and Controls	
		<b>STRIKE - STRIKE CONTINGENCY - OPS/MAINT/RP</b>		<b>3</b>
10/15/2011	11/15/2011	IP 92709	Licensee Strike Contingency Plans	
		<b>OL PREP - INITIAL EXAM FOR 12/2011</b>		<b>3</b>
11/14/2011	11/18/2011	W90244	OL - INITIAL EXAM - DEC 2011 - DAVI	
		<b>OL EXAM - DAVIS-BESSE INIT EXAM - 12/2011</b>		<b>3</b>
12/05/2011	12/16/2011	W90244	OL - INITIAL EXAM - DEC 2011 - DAVI	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
01/09/2012	01/13/2012	IP 71124.05	Radiation Monitoring Instrumentation	
		<b>B ENG - INSERVICE INSPECTION</b>		<b>1</b>
02/01/2012	02/29/2012	IP 7111108P	Inservice Inspection Activities - PWR	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
02/13/2012	02/17/2012	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
02/13/2012	02/17/2012	IP 71124.02	Occupational ALARA Planning and Controls	
02/13/2012	02/17/2012	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
02/13/2012	02/17/2012	IP 71124.04	Occupational Dose Assessment	

**Davis-Besse**  
**Inspection / Activity Plan**  
**03/01/2011 - 06/30/2012**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>BI EP</b>	<b>- EP ROUTINE / PI VERIFICATION</b>	<b>2</b>
03/26/2012	03/30/2012	IP 7111402	Alert and Notification System Testing	
03/26/2012	03/30/2012	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
03/26/2012	03/30/2012	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
03/26/2012	03/30/2012	IP 71151	Performance Indicator Verification	
		<b>BI RP</b>	<b>- RADIATION PROTECTION BASELINE INSPECTION</b>	<b>1</b>
06/25/2012	06/29/2012	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
06/25/2012	06/29/2012	IP 71151	Performance Indicator Verification	

B. Allen

-2-

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Letter to B. Allen from S. West dated March 4, 2011.

SUBJECT: ANNUAL ASSESSMENT LETTER FOR DAVIS-BESSE NUCLEAR  
POWER STATION, UNIT 1 (REPORT 05000346/2011001)

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