



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

September 1, 2010

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: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
DAVIS-BESSE NUCLEAR POWER STATION**

Dear Mr. Allen:

On August 4, 2010, the NRC staff completed its mid-cycle performance review of the Davis-Besse Nuclear Power Station. Our technical staff reviewed performance indicators for the most recent quarter and inspection results for the period from July 1, 2009, through June 30, 2010. The purpose of this letter is to inform you of our assessment of your safety performance during this period and our plans for future inspections at your facility.

This performance review and enclosed inspection plan do not include security information. A separate letter designated and marked as "Official Use Only - Security Information" will include the Security Cornerstone review and resultant inspection plan.

Overall, Davis-Besse operated in a manner that preserved public health and safety and fully met all cornerstone objectives. Plant performance for the most recent quarter was within the Regulatory Response column of the NRC's Action Matrix, based on one finding associated with the Emergency Preparedness Cornerstone being classified as having low-to-moderate safety significance (White). This White finding, from the fourth quarter of 2009, involved your failure to classify an actual Alert in a timely manner during a June 2009 switchyard event. This finding caused Davis-Besse to transition from the Licensee Response column to the Regulatory Response column in the fourth quarter of 2009.

On March 29, 2010, we were notified by your staff of your readiness for the NRC to conduct a supplemental inspection to review the actions taken to address the White finding. The supplemental inspection was performed during the week of August 16, 2010, in accordance with Inspection Procedure 95001, "Inspection for One or Two White Inputs in a Strategic Performance Area." In addition to this supplemental inspection, we plan to conduct reactor oversight program (ROP) baseline inspections at Davis-Besse.

The enclosed inspection plan details the inspections, less those related to security, scheduled through December 31, 2011. The inspection plan is provided to allow for the resolution of any scheduling conflicts and personnel availability issues well in advance of inspector arrival onsite. Routine resident inspections are not listed due to their ongoing and continuous nature. The inspections in the last 9 months of the inspection plan are tentative and may be revised at the end-of-cycle review.

B. Allen

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In accordance with 10 CFR 2.390 of the NRC's "Rules of Practice," a copy of this letter and its enclosure 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), accessible from the NRC Web site at <http://www.nrc.gov/reading-rm/adams.html> (the Public Electronic Reading Room).

If circumstances arise which cause us to change this inspection plan, we will contact you to discuss the change as soon as possible. Please contact James Cameron at 630-829-9833 with any questions you may have regarding this letter or the inspection plan.

Sincerely,

**/RA by Gary L. Shear for/**

Steven West, Director  
Division of Reactor Projects

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

Enclosure: Davis-Besse Inspection/Activity Plan

cc w/encl: Distribution via ListServ

**Davis-Besse**  
**Inspection / Activity Plan**  
**09/01/2010 - 12/31/2011**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>ISFSI - ISFSI INSPECTION</b>		<b>1</b>
09/01/2010	10/31/2010	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
09/13/2010	09/17/2010	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	
09/13/2010	09/17/2010	IP 71151-PR01	RETS/ODCM Radiological Effluent	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
11/15/2010	11/19/2010	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
11/15/2010	11/19/2010	IP 71151-BI01	Reactor Coolant System Activity	
		<b>BI OL - LIC. OPERATOR REQUAL. PROGRAM EVALUATION</b>		<b>2</b>
11/15/2010	11/19/2010	IP 7111111B	Licensed Operator Requalification Program	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
12/13/2010	12/17/2010	IP 2515/179	Verification of Licensee Responses to NRC Requirement for Inventories of Materials Tracked in NSTS	
12/13/2010	12/17/2010	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
12/13/2010	12/17/2010	IP 71124.02	Occupational ALARA Planning and Controls	
12/13/2010	12/17/2010	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		<b>BI ENG - MODIFICATIONS / 50.59 INSPECTION</b>		<b>1</b>
01/10/2011	01/28/2011	IP 7111117T	Evaluations of Changes, Tests, or Experiments and Permanent Plant Modifications	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
01/24/2011	01/28/2011	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
01/24/2011	01/28/2011	IP 71124.04	Occupational Dose Assessment	
01/24/2011	01/28/2011	IP 71151-BI01	Reactor Coolant System Activity	
		<b>STRIKE - STRIKE CONTINGENCY - CLERICAL</b>		<b>2</b>
02/01/2011	03/10/2011	IP 92709	Licensee Strike Contingency Plans	
		<b>BI PI&amp;R - BIENNIAL PI&amp;R INSPECTION</b>		<b>4</b>
02/14/2011	03/04/2011	IP 71152B	Identification and Resolution of Problems	
		<b>RENEWAL - LICENSE RENEWAL 71002</b>		<b>4</b>
04/25/2011	05/13/2011	IP 71002	License Renewal Inspection	
		<b>BI EP - EP EXERCISE INSPECTION / PI VERIFICATION</b>		<b>2</b>
05/09/2011	05/13/2011	IP 7111401	Exercise Evaluation	
05/09/2011	05/13/2011	IP 71151-EP01	Drill/Exercise Performance	
05/09/2011	05/13/2011	IP 71151-EP02	ERO Drill Participation	
05/09/2011	05/13/2011	IP 71151-EP03	Alert & Notification System	
		<b>BI ENG - TRIENNIAL HEAT SINK INSPECTION</b>		<b>1</b>
06/20/2011	06/24/2011	IP 7111107T	Heat Sink Performance	

**Davis-Besse**  
**Inspection / Activity Plan**  
**09/01/2010 - 12/31/2011**

Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End			
		<b>HEAD - HEAD REPLACEMENT INSPECTION</b>		<b>1</b>
07/01/2011	11/30/2011	IP 71007	Reactor Vessel Head Replacement Inspection	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
08/08/2011	08/12/2011	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
08/08/2011	08/12/2011	IP 71124.02	Occupational ALARA Planning and Controls	
08/08/2011	08/12/2011	IP 71151-OR01	Occupational Exposure Control Effectiveness	
		<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-PR01	RETS/ODCM Radiological Effluent	
		<b>BI RP - RADIATION PROTECTION BASELINE INSPECTION</b>		<b>1</b>
10/17/2011	10/21/2011	IP 71124.07	Radiological Environmental Monitoring Program	
		<b>STRIKE - STRIKE CONTINGENCY - OPS/MAINT/RP</b>		<b>2</b>
10/15/2011	11/15/2011	IP 92709	Licensee Strike Contingency Plans	
		<b>OL PREP - INITIAL EXAM FOR DECEMBER 2011</b>		<b>2</b>
11/14/2011	11/18/2011	W90244	OL - INITIAL EXAM - AUG 2011 - DAVI	
		<b>BI OL - BIENNIAL REQUAL PROGRAM INSPECTION</b>		<b>2</b>
11/14/2011	11/18/2011	IP 7111111B	Licensed Operator Requalification Program	
		<b>OL EXAM - DAVIS-BESSE INIT EXAM - 08/2011</b>		<b>2</b>
12/05/2011	12/16/2011	W90244	OL - INITIAL EXAM - AUG 2011 - DAVI	

B. Allen

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Letter to B. Allen from S. West dated September 1, 2010.

SUBJECT: MID-CYCLE PERFORMANCE REVIEW AND INSPECTION PLAN –  
DAVIS-BESSE NUCLEAR POWER STATION

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