



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 2, 2016

Mr. Bryan C. Hanson
Senior VP, Exelon Generation Company LLC
President and CNO, Exelon Nuclear
4300 Winfield Road
Warrenville, IL 60555

**SUBJECT: ANNUAL ASSESSMENT LETTER FOR DRESDEN NUCLEAR POWER STATION,
UNITS 2 AND 3 (REPORT 05000237/2015006 AND 05000249/2015006)**

Dear Mr. Hanson:

On February 10, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its end-of-cycle performance review of Dresden Nuclear Power Station, Units 2 and 3. The NRC reviewed the most recent quarterly performance indicators (PIs) in addition to inspection results and enforcement actions from January 1, 2015, through December 31, 2015. 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 determined the performance at Dresden Nuclear Power Station, Unit 2, during the most recent quarter was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because of issues identified with the unit's "C" electromatic relief valve's (ERV) ability to perform its intended safety function as described in Inspection Report 05000237/2015010 (ML15260A508) dated September 16, 2015. A supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," was successfully performed and documented in Inspection Report 05000237/2015011; 05000249/2015011, (ML15336A721) dated December 2, 2015. That inspection report stated that Dresden Nuclear Power Station, Unit 2, would remain in Regulatory Response Column until the end of the first quarter of 2016 assuming no additional greater-than-green findings; Dresden Nuclear Power Station, Unit 2, entered the Regulatory Response Column in the second quarter of 2015 due to the ERV issue.

The NRC determined the performance at Dresden Nuclear Power Station, Unit 3, during the most recent quarter was within the Regulatory Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because of issues identified with the unit's "E" valve ERV's ability to perform its intended safety function as described in Inspection Report 05000249/2015008 (ML15085A273), dated on March 26, 2015. A supplemental inspection in accordance with Inspection Procedure 95001, "Supplemental Inspection for One or Two White Inputs in a Strategic Performance Area," was successfully performed and documented in Inspection Report 05000237/2015011; 05000249/2015011 (ML15336A721) dated December 2, 2015. That inspection report stated that Dresden Nuclear Power Station, Unit 3, would remain in Regulatory Response Column until the issuance of the report; Dresden Nuclear Power Station, Unit, transitioned to the Licensee Response Column on December 2, 2015.

The enclosed inspection plan lists the inspections scheduled through December 31, 2017. 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. This inspection plan does not include security-related inspections, which will be sent via separate, non-publicly available correspondence.

The NRC inspection schedule includes a biennial inspection conducted in accordance with Inspection Procedure 71152, "Problem Identification and Resolution," a triennial inspection conducted in accordance with Inspection Procedure 711121, "Component Design Bases Inspection," and an infrequently performed inspection related to the operation of the Independent Spent Fuel Storage Installation (ISFSI) using IP 60855.1, "Operation of an ISFSI Independent Spent Fuel Storage Installation at Operating Plants."

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." This Order requires licensees to develop, implement, and maintain guidance and strategies to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities following a beyond-design-basis external event. Additionally, the Commission issued Order EA-12-051, "Order Modifying Licenses with Regard to Reliable Spent Fuel Pool Instrumentation." This Order requires licensees to have a reliable means of remotely monitoring wide-range Spent Fuel Pool levels to support effective prioritization of event mitigation and recovery actions in the event of a beyond-design-basis external event. The NRC is conducting audits of licensee efforts towards compliance with these Orders. The audit was completed for Dresden Nuclear Power Station, Units 2 and 3, and the information gathered will aid staff in development of the Safety Evaluation for the site. After the NRC staff receives the Final Compliance letter for the site, the Final Safety Evaluation will be issued. Then, the NRC staff will confirm through inspections the full implementation of the orders mentioned above by performing TI 191, "Inspection of the Implementation of Mitigation Strategies and Spent Fuel Pool Instrumentation Orders and Emergency Preparedness Communication/Staffing/Multi-Unit Dose Assessment Plans."

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).

B. Hanson

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

Sincerely,

/RA/

Patrick L. Loudon, Director
Division of Reactor Projects

Docket Nos. 50-237; 50-249
License Nos. DPR-19; DPR-25

Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

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

Sincerely,

/RA/

Patrick L. Loudon, Director
Division of Reactor Projects

Docket Nos. 50-237; 50-249
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Enclosure:
Inspection Plan

cc: Distribution via LISTSERV®

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Dresden
Inspection / Activity Plan
03/01/2016 - 12/31/2017

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			PI&R B - BIENNIAL PI&R INSPECTION		4
2, 3	04/11/2016	04/29/2016	IP 71152B	Problem Identification and Resolution	
			BI ENG - COMPONENT DESIGN BASIS INSPECTION PILOT		3
2, 3	06/27/2016	07/01/2016	IP 7111121	Component Design Bases Inspection	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
2	03/14/2016	03/18/2016	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2	03/14/2016	03/18/2016	IP 71124.04	Occupational Dose Assessment	
2	03/14/2016	03/18/2016	IP 71151	Performance Indicator Verification	
			ISFSI - PROGRAM REVIEW		1
2	05/01/2016	05/31/2016	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION		2
2, 3	05/16/2016	05/20/2016	IP 7111111B	Licensed Operator Requalification Program	
			OL PREP - INIT PREP/JULY 2016		3
2	07/11/2016	07/15/2016	W90346	OL - INITIAL EXAM - 2016 JULY-AUG - DRESDEN	
			OL EXAM - INIT EXAM/AUGUST 2016		3
2	08/08/2016	08/12/2016	W90346	OL - INITIAL EXAM - 2016 JULY-AUG - DRESDEN	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
2	10/31/2016	11/04/2016	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	10/31/2016	11/04/2016	IP 71124.02	Occupational ALARA Planning and Controls	
2	10/31/2016	11/04/2016	IP 71151	Performance Indicator Verification	
			ISI - INSERVICE INSPECTION ON UNIT 3		1
3	10/31/2016	11/11/2016	IP 7111108G	Inservice Inspection Activities - BWR	
			BI ENG - TRIENNIAL FIRE PROTECTION AND BAG TRIP		3
2, 3	01/16/2017	02/17/2017	IP 7111105T	Fire Protection [Triennial]	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
2	02/27/2017	03/03/2017	IP 71124.05	Radiation Monitoring Instrumentation	
2	02/27/2017	03/03/2017	IP 71151	Performance Indicator Verification	
			BI EP - EP EXERCISE INSPECTION / PI VERIFICATION		5
2, 3	04/17/2017	04/21/2017	IP 7111401	Exercise Evaluation	
2, 3	04/17/2017	04/21/2017	IP 7111406	Drill Evaluation	
2, 3	04/17/2017	04/21/2017	IP 7111408	Exercise Evaluation – Scenario Review	
2, 3	04/17/2017	04/21/2017	IP 71151	Performance Indicator Verification	

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

Dresden
Inspection / Activity Plan
03/01/2016 - 12/31/2017

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
2	05/15/2017	05/19/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
2	05/15/2017	05/19/2017	IP 71151	Performance Indicator Verification	
			TI191 - FLEX/MITIGATING STRATGIES/SFPI		4
2	11/13/2017	11/17/2017	IP 2515/191	Inspection of Licensee's Responses to Order EA-12-049, EA-12-051 & EP Info Request March 12, 2012	
			OL PREP - INIT EXAM/AUG 2017		3
2	07/24/2017	07/28/2017	W90354	OL - INITIAL EXAM - 2017 JULY-AUG - DRESDEN	
			OL EXAM - INIT EXAM/AUG 2017		3
2	08/21/2017	09/01/2017	W90354	OL - INITIAL EXAM - 2017 JULY-AUG - DRESDEN	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
2	09/11/2017	09/15/2017	IP 71124.07	Radiological Environmental Monitoring Program	
			BI ENG - TRIENNIAL HEAT SINK INSPECTION		2
2, 3	10/16/2017	10/20/2017	IP 7111107T	Heat Sink Performance	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
2	10/30/2017	11/03/2017	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	10/30/2017	11/03/2017	IP 71124.02	Occupational ALARA Planning and Controls	
2	10/30/2017	11/03/2017	IP 71151	Performance Indicator Verification	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
2	11/27/2017	12/01/2017	IP 71124.08	Radioactive Solid Waste Processing and Radioactive Material Handling, Storage, and Transportation	

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