



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

August 31, 2016

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

**SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR DRESDEN NUCLEAR POWER
STATION, UNITS 2 AND 3 (REPORT 05000237/2016005; 05000249/2016005)**

Dear Mr. Hanson:

On August 10, 2016, the U.S. Nuclear Regulatory Commission (NRC) completed its mid-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 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 that overall, Dresden Nuclear Power Station, Units 2 and 3, operated in a manner that preserved public health and safety and met all cornerstone objectives. The NRC determined the performance at Dresden Nuclear Power Station, Units 2 and 3, during the most recent quarter was within the Licensee Response Column of the NRC's Reactor Oversight Process (ROP) Action Matrix because all inspection findings had very low safety significance, and all PIs indicated that your performance was within the nominal, expected range (i.e., green). Therefore, the NRC plans to conduct ROP baseline inspections at your facility.

The NRC determined the performance at Dresden Nuclear Power Station, Unit 2, during the first quarter of 2016 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" electromechanical relief valve's (ERV) ability to perform its intended safety function as described in Inspection Report 05000237/2015010 (ADAMS Accession Number 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, (ADAMS Accession Number ML15336A721) dated December 2, 2015. Unit 2 transitioned to the Licensee Response column after the end of the first quarter of 2016.

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.

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 Temporary Instruction 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 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).

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

Enclosure:
Inspection Plan

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Letter to Bryan C. Hanson from Patrick L. Loudon dated August 31, 2016

SUBJECT: MID-CYCLE ASSESSMENT LETTER FOR DRESDEN NUCLEAR POWER
STATION, UNITS 2 AND 3 (REPORT 05000237/2016005; 05000249/2016005)

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Dresden
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			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	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		2
2	05/15/2017	05/19/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
2	05/15/2017	05/19/2017	IP 71124.07	Radiological Environmental Monitoring Program	
2	05/15/2017	05/19/2017	IP 71151	Performance Indicator Verification	
			FLEX - FLEX/MITIGATING STRATEGIES/SFPI		4
2	11/27/2017	12/01/2017	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 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	

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

Dresden
Inspection / Activity Plan
09/01/2016 - 06/30/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
	Start	End			
			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	
			BI MODS - MODIFICATIONS / 50.59 INSPECTION		3
2, 3	01/15/2018	02/02/2018	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			ISFSI - ISFSI INSPECTION		1
2, 3	02/01/2018	04/01/2018	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
			BI EP - EP BASELINE INSPECTION / PI VERIFICATION		1
2, 3	02/12/2018	02/16/2018	IP 7111402	Alert and Notification System Testing	
2, 3	02/12/2018	02/16/2018	IP 7111403	Emergency Preparedness Organization Staffing and Augmentation System	
2, 3	02/12/2018	02/16/2018	IP 7111405	Correction of Emergency Preparedness Weaknesses and Deficiencies	
2, 3	02/12/2018	02/16/2018	IP 71151	Performance Indicator Verification	
			BI RP - RADIATION PROTECTION BASELINE INSPECTION		1
2	02/26/2018	03/02/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2	02/26/2018	03/02/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
			PI&R B - BIENNIAL PI&R TEAM INSPECTION		4
2	04/09/2018	04/27/2018	IP 71152B	Problem Identification and Resolution	

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This report shows only on-site and announced inspection procedures.