



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

March 1, 2017

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 05000237/2016006 AND 05000249/2016006)

Dear Mr. Hanson:

The NRC has completed its end-of-cycle performance assessment of Dresden Nuclear Power Station, Units 2 and 3, reviewing performance indicators (PIs), inspection results, and enforcement actions from January 1, 2016, through December 31, 2016. 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 concluded that overall performance at your facility preserved public health and safety.

The NRC determined the performance at Dresden Nuclear Power Station, Unit 2, during the most recent quarter was within the Licensee Response Column, the highest performance category of the NRC's Reactor Oversight Process (ROP) Action Matrix, because all inspection findings had very low safety significance (i.e., Green), and all PIs were within the expected range (i.e., Green).

The NRC determined the performance at Dresden Nuclear Power Station, Unit 3, during the most recent quarter was within the Regulatory Response Column, the second highest performance column of the NRC's Reactor Oversight Process (ROP) Action Matrix. This conclusion was based on a single inspection finding having low-to-moderate safety significance (i.e., White) in the Mitigating Systems Cornerstone originating in the fourth quarter of 2016, and all PIs within the expected range (i.e., Green).

Therefore, in addition to ROP baseline inspections, the NRC plans to conduct a supplemental inspection in accordance with Inspection Procedure (IP) 95001, "Supplemental Inspection Response to Action Matrix Column 2 Inputs," when your staff has notified us of your readiness for the inspection of your actions to address the conditions that resulted in the White finding.

The enclosed inspection plan lists the inspections scheduled through December 31, 2018. The NRC provides the inspection plan to allow for the resolution of any scheduling conflicts and personnel availability issues. Routine inspections performed by resident inspectors are not included in the inspection plan. The inspections listed during the last twelve months of the inspection plan are tentative and may be revised. 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 the plan for security-related inspections, which will be sent via separate, non-publicly available correspondence.

In addition to the inspection using IP 95001, the NRC will conduct a team inspection during your emergency plan exercise in April 2017 in accordance with IPs in the 71114 area, "Reactor Safety Emergency Preparedness." In November 2017 the NRC will conduct a team inspection under 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 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 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®

B. Hanson

- 3 -

Letter to Bryan Hanson from Patrick Loudon dated March 17, 2017

SUBJECT: ANNUAL ASSESSMENT LETTER FOR DRESDEN NUCLEAR POWER STATION,
UNITS 2 AND 3 (REPORT 05000237/2016006 AND 05000249/2016006)

DISTRIBUTION:

Jeremy Bowen

RidsNrrDorLpl3-2 Resource

RidsNrrPMDresden Resource

RidsNrrDirslrib Resource

Cynthia Pederson

Darrell Roberts

Richard Skokowski

Allan Barker

Carole Ariano

Linda Linn

DRPIII

DRSIII

ROPAssessment.Resource@nrc.gov

ADAMS Accession Number: ML17054D264

OFFICE	RIII		RIII				
NAME	JCameron:bw		PLoudon				
DATE	02/23/2017		02/23/2017				

OFFICIAL RECORD COPY

Dresden
Inspection / Activity Plan
03/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
			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	
			OL EXAM - OL RETAKE EXAM FEB 2017		1
2	02/27/2017	03/03/2017	W90367	OL - RE-TAKE EXAM - NOV. 2016 TO JULY 2017 - DRESDEN	
			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	05/08/2017	05/12/2017	IP 71124.06	Radioactive Gaseous and Liquid Effluent Treatment	
2	05/08/2017	05/12/2017	IP 71124.07	Radiological Environmental Monitoring Program	
2	05/08/2017	05/12/2017	IP 71151	Performance Indicator Verification	
			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		2
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	
			FLEX - FLEX/MITIGATING STRATGIES/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	
			BI 50.59 - TRIENNIAL 50.59 INSPECTION		3
2, 3	01/29/2018	02/02/2018	IP 7111117T	Evaluations of Changes, Tests, and Experiments and Permanent Plant Modifications	
			BI ENG - DBA TEAM INSPECTION		7
2, 3	03/05/2018	03/23/2018	IP 711121M	Component Design Bases Inspection (Teams)	

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

Dresden
Inspection / Activity Plan
03/01/2017 - 12/31/2018

Unit Number	Planned Dates		Inspection Activity	Title	No. of Staff on Site
Start	End				
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 71124.01	Radiological Hazard Assessment and Exposure Controls	
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 71124.04	Occupational Dose Assessment	
2	02/26/2018	03/02/2018	IP 71151	Performance Indicator Verification	
ISFSI - ISFSI CASK LOADING INSPECTION					1
2, 3	04/01/2018	06/30/2018	IP 60855.1	Operation of an Independent Spent Fuel Storage Installation at Operating Plants	
PI&R B - BIENNIAL PI&R TEAM INSPECTION					4
2	04/09/2018	04/27/2018	IP 71152B	Problem Identification and Resolution	
BI OLRQ - BIENNIAL REQUAL PROGRAM INSPECTION					2
2, 3	05/14/2018	05/18/2018	IP 7111111B	Licensed Operator Requalification Program	
ISI - INSERVICE INSPECTION UNIT 3					1
3	10/29/2018	11/14/2018	IP 7111108G	Inservice Inspection Activities - BWR	
BI RP - RADIATION PROTECTION BASELINE INSPECTION					2
2	11/05/2018	11/09/2018	IP 71124.01	Radiological Hazard Assessment and Exposure Controls	
2	11/05/2018	11/09/2018	IP 71124.02	Occupational ALARA Planning and Controls	
2	11/05/2018	11/09/2018	IP 71124.03	In-Plant Airborne Radioactivity Control and Mitigation	
2	11/05/2018	11/09/2018	IP 71124.04	Occupational Dose Assessment	