



**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

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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®

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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)

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|--------|-------------|------------|--|--|--|--|
| 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 7111121M | 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 | |

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