



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

February 10, 2021

Mr. David Rhoades  
Senior VP, Exelon Generation Co., LLC  
President and CNO, Exelon Nuclear  
4300 Winfield Road  
Warrenville, IL 60555

SUBJECT: DRESDEN NUCLEAR POWER STATION, UNITS 2 AND 3 – INTEGRATED  
INSPECTION REPORT 05000237/2020004 AND 05000249/2020004

Dear Mr. Rhoades:

On December 31, 2020, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Dresden Nuclear Power Station, Units 2 and 3. On January 21, 2021, the NRC inspectors discussed the results of this inspection with Mr. P. Boyle, Plant Manager, and other members of your staff. The results of this inspection are documented in the enclosed report.

No findings or violations of more than minor significance were identified during this inspection.

This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* 2.390, "Public Inspections, Exemptions, Requests for Withholding."

Sincerely,

**/RA/**

Kenneth R. Riemer, Chief  
Branch 1  
Division of Reactor Projects

Docket Nos. 05000237 and 05000249  
License Nos. DPR-19 and DPR-25

Enclosure:  
As stated

cc w/ encl: Distribution via LISTSERV®

Letter to David Rhoades from Kenneth Riemer dated February 10, 2021.

SUBJECT: DRESDEN NUCLEAR POWER STATION, UNITS 2 AND 3 – INTEGRATED  
INSPECTION REPORT 05000237/2020004 AND 05000249/2020004

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**U.S. NUCLEAR REGULATORY COMMISSION**  
**Inspection Report**

Docket Numbers: 05000237 and 05000249

License Numbers: DPR-19 and DPR-25

Report Numbers: 05000237/2020004 and 05000249/2020004

Enterprise Identifier: I-2020-004-0061

Licensee: Exelon Generation Company, LLC

Facility: Dresden Nuclear Power Station, Units 2 and 3

Location: Morris, IL

Inspection Dates: October 1, 2020 to December 31, 2020

Inspectors: J. Cassidy, Senior Health Physicist  
G. Edwards, Health Physicist  
R. Elliott, Resident Inspector  
M. Garza, Emergency Preparedness Inspector  
V. Meghani, Reactor Inspector  
A. Nguyen, Senior Resident Inspector  
C. Phillips, Project Engineer  
M. Porfirio, Illinois Emergency Management Agency

Approved By: Kenneth R. Riemer, Chief  
Branch 1  
Division of Reactor Projects

Enclosure

## **SUMMARY**

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an integrated inspection at Dresden Nuclear Power Station, Units 2 and 3, in accordance with the Reactor Oversight Process. The Reactor Oversight Process is the NRC's program for overseeing the safe operation of commercial nuclear power reactors. Refer to <https://www.nrc.gov/reactors/operating/oversight.html> for more information.

### **List of Findings and Violations**

No findings or violations of more than minor significance were identified.

### **Additional Tracking Items**

None.

## PLANT STATUS

Unit 2 began the inspection period at full power. On December 5, 2020, the unit was down powered to 66 percent for routine control rod drive scram time testing, a control rod sequence exchange, main turbine surveillances, and feedwater regulating valve maintenance. The unit returned to full power on December 6, 2020. The unit remained at or near full power for the remainder of the inspection period.

Unit 3 began the inspection period in coast down to prepare for refueling outage D3R26. On October 26, 2020, the unit was shut down to commence D3R26. The unit synchronized to the grid on November 7, 2020, and ascended to full power shortly thereafter. The unit was down powered to 65 percent power on November 14, 2020, for beginning-of-life control rod sequence exchanges and returned to full power on November 15, 2020. An additional down power was performed on November 21, 2020, to 70 percent power for additional control rod sequence exchanges. The unit returned to full power on November 22, 2020, and operated at or near full power for the remainder of the inspection period.

## INSPECTION SCOPES

Inspections were conducted using the appropriate portions of the inspection procedures (IPs) in effect at the beginning of the inspection unless otherwise noted. Currently approved IPs with their attached revision histories are located on the public website at <http://www.nrc.gov/reading-rm/doc-collections/insp-manual/inspection-procedure/index.html>. Samples were declared complete when the IP requirements most appropriate to the inspection activity were met consistent with Inspection Manual Chapter (IMC) 2515, "Light-Water Reactor Inspection Program - Operations Phase." The inspectors reviewed selected procedures and records, observed activities, and interviewed personnel to assess licensee performance and compliance with Commission rules and regulations, license conditions, site procedures, and standards.

Starting on March 20, 2020, in response to the National Emergency declared by the President of the United States on the public health risks of the Coronavirus Disease 2019 (COVID-19), resident inspectors were directed to begin telework and to remotely access licensee information using available technology. During this time, the resident inspectors performed periodic site visits each week; conducted plant status activities as described in IMC 2515, Appendix D, "Plant Status"; observed risk-significant activities; and completed on-site portions of IPs. In addition, resident and regional baseline inspections were evaluated to determine if all or portions of the objectives and requirements stated in the IP could be performed remotely. If the inspections could be performed remotely, they were conducted per the applicable IP. In some cases, portions of an IP were completed remotely and on-site. The inspections documented below met the objectives and requirements for completion of the IP.

## REACTOR SAFETY

### 71111.04 - Equipment Alignment

#### Partial Walkdown Sample (IP Section 03.01) (3 Samples)

The inspectors evaluated system configurations during partial walkdowns of the following systems/trains:

- (1) Unit 3 shutdown cooling system during D3R26 on October 26, 2020

- (2) Electrical alignment during D3R26: 4kV crossties on October 29, 2020, and November 2, 2020
- (3) Unit 3 alternate delay heat removal and fuel pool cooling system alignment during D3R26 on November 2, 2020

#### 71111.05 - Fire Protection

##### Fire Area Walkdown and Inspection Sample (IP Section 03.01) (4 Samples)

The inspectors evaluated the implementation of the fire protection program by conducting a walkdown and performing a review to verify program compliance, equipment functionality, material condition, and operational readiness of the following fire areas:

- (1) Fire Zone (FZ) 8.2.5D and FZ 8.2.6D, Unit 3 low pressure heater bays on October 27, 2020
- (2) FZ 8.2.2B, Unit 3 containment cooling service water pump floor, elevation 495', and comp measures for out of service fire hose stations on October 30, 2020
- (3) FZ 1.1.1.3, Unit 3 reactor building general area, elevation 545' on November 2, 2020
- (4) FZ 1.2.1, Unit 3 drywell primary containment on November 3, 2020

#### 71111.06 - Flood Protection Measures

##### Inspection Activities - Internal Flooding (IP Section 03.01) (1 Sample)

The inspectors evaluated internal flooding mitigation protections in the:

- (1) Cable tunnel on December 18, 2020

#### 71111.07A - Heat Sink Performance

##### Annual Review (IP Section 03.01) (1 Sample)

The inspectors evaluated readiness and performance of:

- (1) Unit 3 'A' low pressure coolant injection heat exchanger

#### 71111.08G - Inservice Inspection Activities (BWR)

##### BWR Inservice Inspection Activities Sample - Nondestructive Examination and Welding Activities (IP Section 03.01) (1 Sample)

- (1) The inspectors verified that the reactor coolant system boundary, reactor vessel internals, risk-significant piping system boundaries, and containment boundary were appropriately monitored for degradation and that repairs and replacements were appropriately fabricated, examined and accepted by reviewing documents for the following activities from October 26, 2020, to November 5, 2020:

03.01.a – Nondestructive Examination and Welding Activities

1. Nondestructive Examinations
  - Ultrasonic (UT) Examination, core bore hole drywell steel liner surface, 112.5.1.1A and 112.5.1.1B
  - Visual VT-1 Examination, reactor pressure vessel (RPV) head vent piping flange bolting 3/1/0215-4/4A-1(A)-FLG
  - Visual VT-1 Examination, RPV head vent piping flange bolting 3/1/0215-2/HV2-18-FLG
  - Visual VT-3 Examination, rigid support, M-3410-09, containment
  - Visual VT-3 Examination, spring hanger, M-3411-04, containment
  - Visual VT-3 Examination, supports 01 /02/06, torus ring girder – support columns/inner support column base plates/ outer support column base plates
  - In-Vessel Visual Inspection (IVVI) of RPV Internals, component ID's CSS 1 S3 a, b 008-080 (Core Spray Sparger) and JP 09 WD-1 (Jet Pump), part of the boiling water reactor vessel and internals project (VIP)
2. Examination records with relevant indications accepted for continued service
  - Recordable UT Indications, D3R25, Weld 3/2/02A-12/12-8, isolation condenser shell to nozzle weld (AR 04190585)
3. Pressure boundary welds
  - Welds 1 through 4, replace CCSW [component cooling service water] pump 3-1501-44-D degraded discharge elbow (Work Order 04678175-01)

#### 71111.11Q - Licensed Operator Regualification Program and Licensed Operator Performance

##### Licensed Operator Performance in the Actual Plant/Main Control Room (IP Section 03.01) (1 Sample)

- (1) The inspectors observed and evaluated licensed operator performance in the control room during reactor shutdown/cool down on October 26, 2020

#### 71111.12 - Maintenance Effectiveness

##### Maintenance Effectiveness (IP Section 03.01) (1 Sample)

The inspectors evaluated the effectiveness of maintenance to ensure the following structures, systems, and components (SSCs) remain capable of performing their intended function:

- (1) Unit 3 'C' circulating water pump bearing identified as failed during Unit 3 refueling outage on October 17, 2020

##### Quality Control (IP Section 03.02) (1 Sample)

The inspectors evaluated the effectiveness of maintenance and quality control activities to ensure the following SSC remains capable of performing its intended function:

- (1) High-pressure coolant injection rupture disc maintenance and quality control, failures during installation during D3R26

### 71111.13 - Maintenance Risk Assessments and Emergent Work Control

#### Risk Assessment and Management Sample (IP Section 03.01) (3 Samples)

The inspectors evaluated the accuracy and completeness of risk assessments for the following planned and emergent work activities to ensure configuration changes and appropriate work controls were addressed:

- (1) Division 1 and 2 low pressure coolant injection and core spray work windows during the week of October 19 - 23, 2020
- (2) Unit 3 transfer of AC feed to and from 4kV crossties during D3R26 on October 29, 2020, and November 2, 2020
- (3) Unit 3 Yellow shutdown risk during lowered inventory conditions on October 27, 2020, and November 4, 2020

### 71111.15 - Operability Determinations and Functionality Assessments

#### Operability Determination or Functionality Assessment (IP Section 03.01) (6 Samples)

The inspectors evaluated the licensee's justifications and actions associated with the following operability determinations and functionality assessments:

- (1) 2A reactor feedwater pump lost indication
- (2) Cardox tank level low causing CO2 to be inoperable to emergency diesel generator rooms
- (3) Many partially blocked containment spray nozzles identified during Unit 3 testing
- (4) Unit 3 isolation condenser 3-1301-3 valve over-torqueing during testing
- (5) Emergency core cooling system valve issues identified during D3R26
- (6) Local leak rate test leakage identified during D3R26

### 71111.18 - Plant Modifications

#### Temporary Modifications and/or Permanent Modifications (IP Section 03.01 and/or 03.02) (1 Sample)

The inspectors evaluated the following temporary or permanent modifications:

- (1) Adjustable speed drive NXG circuit card obsolescence and cooling upgrades [Permanent]

### 71111.19 - Post-Maintenance Testing

#### Post-Maintenance Test Sample (IP Section 03.01) (7 Samples)

The inspectors evaluated the following post-maintenance test activities to verify system operability and functionality:

- (1) DOS 0201-01, Unit 3 reactor pressure vessel ASME B&PV (American Society of Mechanical Engineers Boiler and Pressure Vessel) Code 1000 psi system leakage test, after work that affected the reactor coolant system and boundaries during D3R26 on November 5, 2020



- (2) Unit 3 control rod drive exercising and timing after repairs during D3R26 on November 5 and 6, 2020
- (3) DOS 0040-07, Unit 3 verification of remote position indication for valves in the inservice testing program, after troubleshooting and repair of the 3-0220-44 and 3-0220-46 valves per WOs 5096172 and 5092566 during D3R26
- (4) Division 1 core spray post-maintenance tests (PMTs) D3R26
- (5) Unit 3 low pressure coolant injection and containment cooling service water PMTs D3R26
- (6) DOS 2300-03, Unit 3 high-pressure coolant injection system operability and quarterly IST (inservice testing) verification test, after system maintenance completed during D3R26 on November 7, 2020
- (7) Troubleshoot and repair Unit 3 rod select matrix per WO 5086646

#### 71111.20 - Refueling and Other Outage Activities

##### Refueling/Other Outage Sample (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated the Unit 3 refueling outage, D3R26, activities from October 26, 2020, through November 7, 2020

#### 71111.22 - Surveillance Testing

The inspectors evaluated the following surveillance tests:

##### Surveillance Tests (other) (IP Section 03.01) (2 Samples)

- (1) DOS 6600-03, Unit 3 Division 1 undervoltage test on October 27 and 28, 2020
- (2) DIP 0260-01, Refuel outage reactor vessel level and cavity instrumentation on October 26 and November 5, 2020

##### Inservice Testing (IP Section 03.01) (1 Sample)

- (1) DOS 7100-06, Unit 3 seat leakage testing of valve 3-2301-7, high-pressure coolant injection check valve, on October 30, 2020

##### Containment Isolation Valve Testing (IP Section 03.01) (1 Sample)

- (1) Local leak rate testing of Unit 3 main steam isolation valves and feedwater check valves during D3R26 on October 27-29, 2020

##### FLEX Testing (IP Section 03.02) (1 Sample)

- (1) WO 4718444, FLEX SAWA pump run on November 10, 2020

#### 71114.04 - Emergency Action Level and Emergency Plan Changes

##### Inspection Review (IP Section 02.01-02.03) (1 Sample)

- (1) The inspectors completed an evaluation of submitted emergency action level and emergency plan changes on December 2, 2020. This evaluation does not constitute NRC approval.

## 71114.06 - Drill Evaluation

### Drill/Training Evolution Observation (IP Section 03.02) (1 Sample)

The inspectors evaluated:

- (1) EP Drill on December 3, 2020

## **RADIATION SAFETY**

### 71124.01 - Radiological Hazard Assessment and Exposure Controls

#### Radiological Hazard Assessment (IP Section 03.01) (1 Sample)

- (1) The inspectors evaluated how the licensee identifies the magnitude and extent of radiation levels and the concentrations and quantities of radioactive materials and how the licensee assesses radiological hazards.

#### Instructions to Workers (IP Section 03.02) (1 Sample)

- (1) The inspectors evaluated radiological protection-related instructions to plant workers

#### Contamination and Radioactive Material Control (IP Section 03.03) (1 Sample)

The inspectors evaluated licensee processes for monitoring and controlling contamination and radioactive material.

- (1) Observed licensee surveys of potentially contaminated material leaving the Radiologically Controlled Area (RCA) and workers exiting the RCA at Unit 3 during a refueling outage.

#### Radiological Hazards Control and Work Coverage (IP Section 03.04) (1 Sample)

The inspectors evaluated in-plant radiological conditions during facility walkdowns and observation of radiological work activities.

- (1) Initial entry into reactor cavity and decontamination after refueling during D3R26 under radiation work permit (RWP) DR-03-20-00906

#### Radiation Worker Performance and Radiation Protection Technician Proficiency (IP Section 03.06) (1 Sample)

- (1) The inspectors evaluated radiation worker and radiation protection technician performance as it pertains to radiation protection requirements

## **OTHER ACTIVITIES – BASELINE**

### 71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

#### MS05: Safety System Functional Failures (SSFFs) Sample (IP Section 02.04) (2 Samples)

- (1) Unit 2 (October 1, 2019 through September 30, 2020)
- (2) Unit 3 (October 1, 2019 through September 30, 2020)

#### MS08: Heat Removal Systems (IP Section 02.07) (2 Samples)

- (1) Unit 2 (July 1, 2019 through June 30, 2020)
- (2) Unit 3 (July 1, 2019 through June 30, 2020)

#### MS09: Residual Heat Removal Systems (IP Section 02.08) (2 Samples)

- (1) Unit 2 (July 1, 2019 through June 30, 2020)
- (2) Unit 3 (July 1, 2019 through June 30, 2020)

#### MS10: Cooling Water Support Systems (IP Section 02.09) (2 Samples)

- (1) Unit 2 (July 1, 2019 through June 30, 2020)
- (2) Unit 3 (July 1, 2019 through June 30, 2020)

#### BI01: Reactor Coolant System (RCS) Specific Activity Sample (IP Section 02.10) (2 Samples)

- (1) Unit 2 (October 2019 through September 2020)
- (2) Unit 3 (October 2019 through September 2020)

#### BI02: RCS Leak Rate Sample (IP Section 02.11) (2 Samples)

- (1) Unit 2 (October 1, 2019 through September 30, 2020)
- (2) Unit 3 (October 1, 2019 through September 30, 2020)

#### OR01: Occupational Exposure Control Effectiveness Sample (IP Section 02.15) (1 Sample)

- (1) (June 2019 through September 2020)

#### PR01: Radiological Effluent Technical Specifications/Offsite Dose Calculation Manual Radiological Effluent Occurrences (RETS/ODCM) Radiological Effluent Occurrences Sample (IP Section 02.16) (1 Sample)

- (1) (April 2019 through September 2020)

## 71152 - Problem Identification and Resolution

### Semiannual Trend Review (IP Section 02.02) (1 Sample)

- (1) The inspectors reviewed the licensee's corrective action program for potential adverse trends during D3R26, specifically focused on Human Performance events that could be indicative of a more significant safety issue.

### Annual Follow-up of Selected Issues (IP Section 02.03) (2 Samples)

The inspectors reviewed the licensee's implementation of its corrective action program related to the following issues:

- (1) Safety-related valve degradation issues identified during D3R26, the Unit 3 refueling outage, from October 26 through November 7, 2020
- (2) Multiple failures of the FLEX SAWA pumps during surveillance runs

## **INSPECTION RESULTS**

Observation: Potential Negative Trend in Human Performance Events	71152
<p>The inspectors performed a semiannual review of issues entered into the corrective action program (CAP) and a cognitive review of observations conducted over the period of July 1, 2020, to December 31, 2020, to identify any potential trends that might indicate the existence of a more significant safety issue. Based on these reviews, the inspectors concluded that there was a potential negative trend in the area of Human Performance. Specifically, there were a number of issues where the implementation of human performance tools was not adequate to prevent errors, emergent work scheduling changes led to unintended challenges for completing (or in some cases missing) work activities, and general attention to detail and appropriate focus on work activities was not demonstrated to ensure proper engagement by plant personnel to prevent errors. Examples of these human performance issues, and their associated CAP documents, are listed below:</p> <ul style="list-style-type: none"><li>• IR 4372663, Temporary Loss of Fire Watch</li><li>• IR 4378033, Security Response to Turnstile Alarm</li><li>• IR 4381193, D3R26, Fuel Handling Error during Fuel Shuffle 2</li><li>• IR 4381800, Reseat of Fuel Support Casting Location 18-23</li><li>• IR 4383120, 2 Valves Still Need Required Surveillance Testing</li><li>• IR 4385280, D3R26, Near Miss of PMT Required Prior to Mode 2</li><li>• IR 4385543, D3R26, Hydro Preps Conflict with IM Logic Testing</li><li>• IR 4390417, Entered DOA 4450-03 for Loss of Lift Station and</li><li>• IR 4384354, Ops Crew Clock Reset, Quarterly Valve Timing</li></ul> <p>The residents discussed these observations with the licensee. The licensee created corrective actions to address some of these items for the specific issue in the CAP system. However, the licensee, at the time of this report, had not performed a holistic review of the issues to determine if there were more widespread actions that could be taken to improve performance. The licensee will convene a group to review the data and determine any actions going forward.</p>	

Observation: Safety-Related Valves Found Degraded during D3R26, Unit 3 Refueling Outage	71152
<p>During the refueling outage on Unit 3, several safety-related valves were identified as being degraded and documented in the corrective action program. The inspectors reviewed the current corrective actions associated with ensuring these valves remained in compliance with licensing and design basis requirements. No issues were identified that would challenge the safety function or operability of these valves. The corrective actions taken were determined to be timely and appropriate for the conditions identified.</p> <p>The inspectors also reviewed previous condition reports and corrective actions for prior degradation issues identified with a select number of these valves. The inspectors found that a few of the valves had repetitive degradation issues identified in the CAP and reviewed the prior evaluation of these issues to determine if the issues were addressed appropriately. The inspectors determined that previous evaluations were appropriate for the conditions identified at the time and that the corrective actions taken were adequate. Some of the degradation mechanisms were different over time, and/or maintenance frequencies were appropriately changed to identify potential issues sooner.</p>	
Observation: Multiple Failures of the FLEX SAWA Pumps during Surveillance Runs.	71152
<p>The inspectors reviewed multiple issue reports associated with the licensee's attempts to operate the FLEX SAWA pumps per the required monthly test runs which were unsuccessful. The degraded conditions were documented adequately in the CAP in a timely manner. The inspectors reviewed the current corrective actions associated with ensuring FLEX SAWA pumps remained in compliance with licensing and design basis requirements. No issues were identified that would challenge or pose a threat to the licensee's FLEX strategy or implementation. The corrective actions taken were determined to be timely and appropriate for the conditions identified.</p> <p>The inspectors also reviewed previous condition reports and corrective actions for previous FLEX pump issues identified during surveillance runs. The inspectors found repetitive degradation issues identified during the surveillances that were entered in the CAP and reviewed the prior evaluation of these issues to determine if the issues were addressed appropriately. The inspectors determined that previous evaluations were appropriate for the conditions identified at the time and that the corrective actions taken were adequate. The licensee also identified and entered the trend of FLEX issues into their CAP program IR 4374740, Trend IR FLEX Equipment.</p>	

## **EXIT MEETINGS AND DEBRIEFS**

The inspectors verified no proprietary information was retained or documented in this report.

- On January 21, 2021, the inspectors presented the integrated inspection results to Mr. P. Boyle, Plant Manager, and other members of the licensee staff.
- On November 5, 2020, the inspectors presented the Inservice Inspection Exit D3R26 inspection results to Mr. P. Karaba, Site Vice President, and other members of the licensee staff.
- On December 2, 2020, the inspectors presented the IP 71114.04 exit meeting inspection results to Mr. D. Moore, Senior Manager Emergency Preparedness, and other members of the licensee staff.
- On December 10, 2020, the inspectors presented the radiation protection inspection results to Mr. T. Casagrande, Radiation Protection Manager, and other members of the licensee staff.

## DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.04	Corrective Action Documents	4380442	3-1001-4A Valve Stem Corrosion	10/27/2020
	Corrective Action Documents Resulting from Inspection	4379748	D3R26 3-1999-325 Packing Leak	10/26/2020
	Engineering Evaluations	632343	D3R26 Spent Fuel Pool Cooling Evaluation During Transition to ADHR	00
	Procedures	DOP 1000-M1/E1	Unit 3 Shutdown Cooling Checklist	14
		DOP 1900-E1	Fuel Pool Cooling Electrical	01
		DOP 1900-M1	Unit 3 Fuel Pool Cooling System Checklist	15
		DOP 6500-30	Attachment E: Bus Crosstie Amps	16
		DOS 1000-02	Alternate Decay Heat Removal Using Shutdown Cooling and Fuel Pool Cooling Systems	21
71111.05	Corrective Action Documents	4380385	Transient Combustibles Located Under Stairwell	10/28/2020
	Engineering Evaluations		Various Transient Combustible Permits for D3R26, Unit 3 Refueling Outage, Work Activities	0
	Fire Plans	121 URB-23A	Dresden Generating Station Pre-Fire Plan	2
		FZ 8.2.2B	Unit 3 CCSW Pumps, Elevation 495'	04
		FZ 8.2.5D	Unit 3 Low Pressure Heater Bay, Elevation 517'	03
		FZ 8.2.6D	Unit 3 Low Pressure Heater Bays, Elevation 538'	03
	Miscellaneous		Hot Work Permits for Welding in Unit 3 Low Pressure and High-Pressure Heater Bays during D3R26	
	Procedures	OP-AA-201-007	Fire Protection System Impairment Control	00
71111.06	Miscellaneous	DR-PSA-012	Internal Flood Evaluation Summary and Notebook	04
71111.07A	Corrective Action Documents	4380814	3A LPCI Tubes Stuck Cleaning Scrapers	10/30/2020
		4381431	3-1599-112, CCSW Heat Exchanger Sample Line Flush Valve, Failed Inspection	11/01/2020
		4381473	D3R26 3A LPCI Heat Exchanger Coating Repairs	11/01/2020
		4383193	3A LPCI Heat Exchanger D3R26 Coatings Repairs Lessons Learned	10/31/2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	NDE Reports	2020-10	Eddy Current Examination Final Report for Exelon Nuclear Dresden, Unit 3, 3A LPCI Heat Exchanger (3-1503-A)	11/02/2020
	Work Orders	4590891	D3R26 Clean/Inspect/Eddy Current 'A' LPCI Heat Exchanger	11/02/2020
71111.08G	Calculations	1801382.301	Dresden Iso Condenser Flaw Evaluation	0
	Corrective Action Documents	00949941	Corrosion on Unit 3 Torus Baseplate Anchor	08/03/2009
		04013601	Degraded Unit 3 CCSW Piping Identified	05/22/2017
		04379976	D3R26 Drywell Basement Moisture Barrier Relevant Conditions	10/27/2020
		04380663	D3R26 FAC, Area on 3D2 Heater found Below Min Wall	10/29/2020
		04381396	D3R26 Nonrelevant Condition on Support M-3410-09	10/31/2020
	Drawings	3-CISI-1000 SHT 2B	IWE Component Detail, Drywell Floor Core Hole Locations and Details	A
		M-3410-09 SHT 1	Vacuum Relief 3-16040 18 IN LX	B
		M-3410-09 SHT 2	Vacuum Relief 3-16040 18 IN LX	E
		M-3411-04 SHT 1	Support Drawing	D
	Engineering Evaluations	EC 626262	ASME Code Case N-586-1 Evaluation for Unit 3 Isolation Condenser 3/2/1302A-12/12-8 Nozzle to Shell Weld	0
	NDE Reports	20-375	VT-3 Report for License Renewal Supports 1, 2, 6	10/31/2020
		20-393	VT-3 - Component No. M-3410-09	11/02/2020
		20-403	VT-3 for Component No. M-3411-04	11/02/2020
		20-427	UT Thickness Measurements of the Drywell Basement Floor Liner in 22 Core Hole Locations	11/02/2020
		D3R26-VT-001	VT-1 for 3/1/0215-2/HV2-18-FLG	10/31/2020
		D3R26-VT-002	3/1/0215-4/4A-1(A)-FLG	10/31/2020
	Procedures	ER-AA-335-004	Ultrasonic (UT) Measurement of Material Thickness and Interfering Conditions	9
		ER-AA-335-014	VT-1 Visual Examination	10
		ER-AA-335-016	VT-3 Visual Examination of Component Supports, Attachments and Interiors of Reactor Vessels	12



Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		ER-AA-335-018	Visual Examination of ASME IWE Class MC and MET ALLIC Liners of Class CC Components	14
		GEH-VT-203	Procedure for In-Vessel Visual Inspection (IVVI) of BWR 3 RPV Internals	25
	Work Orders	04678175-01	CM Replace CCSW Pump 3-1501-44-D, Degraded Discharge Elbow	11/02/2018
		04615093-11	Through Wall Pipe Leak on CCSW Line 3-1514-16	03/23/2017
71111.12	Corrective Action Documents	4382882	D3R26 – Steam Leak from HPCI Rupture Disc	11/07/2020
		4377284	3C Circulating Water Pump Bearing High Temperature	10/17/2020
	Engineering Changes	632912	HPCI Steam Rupture Disc - Allow Use of 140 psig Rated Set	00
	Engineering Evaluations	448508	Evaluate Torque Value for HPCI Rupture Discs with Fully Lubricated Flange Bolts	00
		448508	Evaluate Torque for HPCI Rupture Disc Based on Lubricated Stud Bolts	00
	Procedures	DMP 2300-14	HPCI Rupture Disc Maintenance	08 and 09
	Work Orders	1925035	IST Replace Both Unit 3 HPCI Turbine Steam Exhaust Rupture Discs	11/03/2020
71111.13	Corrective Action Documents Resulting from Inspection	4379974	NRC Questions During D3R26	10/27/2020
		4380495	NRC Concern on Protected Pathway	10/29/2020
		4382296	Protected Pathway Concerns	11/04/2020
		4382308	NRC ID: 2/3 RBCCW Oiler Empty	11/04/2020
		4382310	NRC ID: 3A CCSW Pump Seal Leakage	11/04/2020
	Miscellaneous		D3R26 Shutdown Safety Contingency Plans, Compensatory Action Plans and Related Work Evaluation	10/13/2020
			D3R26 Protected Equipment Summary	10/23/2020
			Protected Equipment Schemes for Various Plant Configurations Reviewed this Quarter	
	Procedures	DOP 6400-13	Electrical Yard Switching	55
		DOP 6400-14	Transformer 86 Load Tap Changer Operation	17
		DOP 6500-08	Bus 24-1 to Bus 34-1 Tie Breaker Operation	25
		DOP 6500-30	Bus 23-1 to Bus 33-1 Tie Breaker Operation	16

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		DOS 1100-04	Standby Liquid Control System Quarterly/Comprehensive Pump Test for the Inservice Testing (IST) Program	53
		DOS 5750-04	Control Room Train B HVAC and Air Filtration Unit Surveillance	55
		OP-AA-108-117	Protected Equipment Program	05
71111.15	Corrective Action Documents	4379382	LLRT Results Above Alarm Limit for Penetration X-138	10/25/2020
		4379385	LLRT Results Above Warning Limit for Penetration X-149B	10/25/2020
		4379698	LLRT Results Above Warning Limit for AOV 3-2001-6	10/26/2020
		4379747	Cardox Tank Low	0
		4379969	3-1501-26A Leakage During LPCI Single Loop Test	10/27/2020
		4380023	High Resistance Contacts – Control Switches for HPCI Valves	10/27/2020
		4380323	Unable to Close Breaker for 3-1501-21A	10/28/2020
		4380764	LLRT Results Above Warning Limit for MOV 3-1501-19A	10/30/2020
		4380783	Open Contacts on Torque Switch	10/30/2020
		4381583	D3R26 Results of U3 LPCI Containment Spray Testing	0
		4382613	3-1501-25B Failed to Indicate Full Open during Testing	11/05/2020
		4389199	2A Reactor Feedwater Pump Indicating Light Out	12/09/2020
	Drawings	12E-2349	Schematic Diagram: 480V Bus 29 Main Feed and Bus 28-29 Crosstie Breakers	AH
	Engineering Changes	632250	Blocked Drywell Spray Nozzle Evaluation for AST Dose Analyses	0
	Procedures	DOS 0040-07	Verification of Remote Position Indication for Valves Included in Inservice Testing (IST) Program	48
	Work Orders	4855292	Primary Containment Type B&C Leakage Rate Test Summation	11/11/2020
71111.18	Engineering Changes	625677	ASD Obsolescence and Cooling Upgrades	0
		628647	ASD NXG Circuit Card on ASD Digital Card Rack	0
	Procedures	DOS 0202-25	ASD Testing in Open Loop Test Mode	1
71111.19	Corrective Action Documents	4379710	Failed Recirculation Sample Valve, 3-0220-44; Did Not Open with Control Switch	10/26/2020
		4380424	Rupture Disc Failure During Install	10/29/2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		4381583	D3R26 Results of U3 LPCI Containment Spray Testing	0
		4382189	Unit 3 HPCI MGU/MSC PMTs	11/04/2020
		4382306	D3R26 Flowsan Testing of the 3-0220-44 Recirculation Sample Valve	11/04/2020
		4382356	AOV 3-0220-44 Showing Dual Indication on Position	11/05/2020
		4382501	D3R26 System Leakage Test: 84 dpm Leak from HCU 14-11	11/05/2020
		4382541	D3R26 RCPB Class 1 System Leakage Test Results	11/05/2020
		4382602	AO 3-0220-45 Valve will Not Open from Main Control Room during PMT	11/05/2020
		4382606	3-0220-46, Reactor Head Vent Valve, will Not Operate	11/05/2020
		4382650	LLRT Results above Warning Limit for AOV 3-0220-44 (As-Left)	11/06/2020
		4382911	Entered DOA 0700-02 for IRM 13 Not Withdrawn	11/07/2020
		4383070	Unit 3 Rod Select Matrix Issues	11/08/2020
		4386073	D3R26 Unit 3 Rod Select Matrix Troubleshooting	11/18/2020
	Engineering Evaluations	395859	Evaluation of Leakage at Mechanical Connections for Class 1 and 2 System Leakage Test	01
		448626	IRM 13 Fuses Replaced with 2 Amp due to 1 Amp Fuses Blowing when Attempting to Withdraw IRM During Startup	00
		632929	Evaluation of Leakage at Mechanical Connection for LPCI Valve 3-1501-26A	00
	Procedures	DIS 1500-20	Division 1 and II Low Pressure Coolant Injection Pumps Suction and Injection Valves Circuitry Logic System Functional Test	23
		DOS 0040-07	Verification of Remote Position Indication for Valves Included in Inservice Testing Program	48
		DOS 0201-02	Unit 3 RPV ASME B and PV Code 1000 PSI System Leakage Test	63
		DOS 0300-08	CRD Exercising with Mode Switch in Refuel	25
		DOS 0300-15	Control Rod Drive SCRAM Timing Test during Hydro	23
		DOS 2300-03	High-Pressure Coolant Injection System Operability and Quarterly IST Verification Test	117
		DTS 1500-03	LPCI Containment Spray Test	06

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Work Orders	01784322	D3 4Y TS LPCI Containment Spray Test of D/W Spray Nozzle	0
		1610562	Replace Regulator and Diaphragm and Repack 3-0220-44 Valve	11/06/2020
		4570360	D3 24M TS Division 1 and 2 LPCI Suction and Injection Valves LSFT	0
		4852964	Replace ASCO Solenoid for Valve 3-0220-44	11/06/2020
		4872264	Unit 3 Refuel Outage ISI 1000 PSI Reactor Vessel Leakage Test (Hydrostatic Test)	11/05/2020
		5068912	Inspect and Replace MSC and MGU Limit Switches	10/30/2020
		5092566-02	(PMT) Perform Logic Testing of Valve 3-0220-44	11/06/2020
		5096172	3-0220-46, Reactor Head Vent Valve, will Not Operate, Troubleshoot and Repair	11/06/2020
71111.20	Corrective Action Documents	4382043	D3R26: FME ECCS Suction Strainer Inspection Results	11/03/2020
		4382206	Deviation to Implementation of the Work Hour Rule	0
		4382403	Deviation to Implementation of the Work Hour Rule	0
		4382946	2203-5 Instrument Rack Leak	11/07/2020
		4382985	3C Reactor Feedwater Pump Auxiliary Oil Pump Did Not Automatically Shut Off	11/08/2020
		4382993	3A Reactor Feedwater Pump Discharge Valve Binding	11/08/2020
		4382994	MFDLRX Mismatch during D3R26 Power Ascension	11/07/2020
	Engineering Changes	632956	MR-90 Jumpers to Support D3R26 Hydro Test Prior to Startup	0
	Miscellaneous		D3R26 Refuel Outage Key Safety Function Review	10/23/2020
		Tagout 03-03-SDVWEST-001	D3R26: Unit 3 West SCRAM Discharge Volume Work	10/27/2020
		Tagout 03-15-CCSW+HX-001	D3R26: Division I CCSW Loop and 3A LPCI Heat Exchanger	10/26/2020
		Tagout 03-83-250VDC-001	D3R26: 250V Battery Modified Performance Test	11/02/2020
	Operability Evaluations	OP-AA-108-108	Unit Restart Review	20
	Procedures	DFP 0800-07	Fuel Movements during Refueling Operations	41
		DGP 01-S1	Startup Checklist	103

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		DGP 04-01	Fuel Moves and Refueling	40
		DOP 0201-04	Reactor Pressure Vessel Water Inventory Control	15
		DOP 1000-09	Bypassing Shutdown Cooling Isolation	04
		DOP 1900-03	Reactor Cavity, Dryer/Separator Storage Pit and Fuel Pool Level Control	58
		DOS 1600-10	Drywell Closeout Inspection Plan	52
		LS-AA-119	Fatigue Management and Work Hour Limits	14
		OU-DR-104	Shutdown Safety Management Program	23
71111.22	Corrective Action Documents	4380835	D3R26 3-2301-7 Excessive Leakage	10/30/2020
	Procedures	DIP 0260-01	Refuel Outage Reactor Vessel and Cavity Level Instrumentation	21
		DOS 6600-03	Bus Undervoltage and ECCS Integrated Functional Test for Unit 3 Diesel Generator	47
		DOS 7000-26	Local Leak Rate Testing of Unit 2(3) Feedwater System Valves	11
		DOS 7100-06	Seat Leakage Testing of Valve 3-2301-7	09
	Work Orders	4596470	Unit 3 Refueling Cycle Bus 33-1 Undervoltage and ECCS Integrated Functional Test	10/28/2020
		4852650	Local Leak Rate Test for Valves 3-0220-57B and 3-0220-62B, Feedwater Outboard Check Valves	10/29/2020
		4852651	Local Leak Rate Testing of Valves 3-0220-57B and 3-0220-58B, Feedwater Inboard Check Valves	10/29/2020
		4855824	Unit 3 Refueling Reactor Vessel and Cavity Level Instrumentation	11/05/2020
		4881509	Unit 3 IST Seat Leak Test for HPCI Inlet to Feedwater Check Valve	11/06/2020
71114.04	Corrective Action Documents	4325295	Perform Impact Review of EAL Revisions from EOP/SAMG, Rev. 4	03/10/2020
	Miscellaneous	19-29	Exelon Nuclear Standardized Radiological Emergency Plan	09/04/2020
		19-65	Exelon Nuclear Standardized Radiological Emergency Plan	09/06/2019
		19-79	Various Station Emergency Preparedness Annexes	11/08/2019

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
		19-80	On-Shift Staffing Assessments	11/08/2019
		20-05	EALs for Dresden Station; Dresden PAR Flowchart	02/07/2020
		20-36	EALs for Dresden Station	06/09/2020
71124.01	ALARA Plans	DR-03-20-00512	D2R26 Drywell Control Rod Drive Exchange / CRD Support Activities	10/13/2020
		DR-03-20-00513	D2R26 Drywell Control Rod Drive Exchange / CRD Support Activities	10/13/2020
		DR-03-20-00906	D3R26 Cavity Decon	10/13/2020
	Corrective Action Documents	014383624	D3R26 RP Lessons Learned	11/11/2020
	Miscellaneous		Reactor Cavity Decontamination Plan	N/A
	Radiation Surveys	2020-084355	Reactor Cavity - Post Decon Survey	11/04/2020
		2020-084374	Reactor Cavity - Post Decon Survey	11/04/2020
		2020-084435	Reactor Cavity - Initial Survey	11/04/2020
71151	Corrective Action Documents	04367428	NRC Request Follow-Up on ED Alarm	09/04/2020
	Miscellaneous	CY-AA-130-3010-F-03	Dose Equivalent Iodine Determination - Unit 2	October 2019 - September 2020
		CY-AA-130-3010-F-03	Dose Equivalent Iodine Determination – Unit 3	October 2019 - September 2020
		LS-AA-2090 Attachment 1	Monthly Data Elements for NRC Reactor Coolant System (RCS) Specific Activity	October 2019 - September 2020
		LS-AA-2140 Attachment 1	Monthly Data Elements for NRC ROP Indicator - Occupational Exposure Control Effectiveness	June 2019 - September 2020
		LS-AA-2150 Attachment 1	NRC RETS/ODCM Radiological Effluent Occurrences and Supporting Information	April 2019 - September 2020

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Radiation Surveys	2019-056188	2/3 Radwaste 507' Barrel Area	10/22/2019
71152	Corrective Action Documents	1138794	D3R21 LLRT 3-1501-19A Exceeded Admin Alarm Limit	11/11/2010
		1441994	D3R22 LLRT on 3-1501-19A Exceeded Admin Limit	11/19/2012
		2737436	LLRT Exceeds Warning Limit	11/05/2016
		4372663	Temporary Loss of Required Fire Watch	09/28/2020
		4378033	Security Response to Turnstile Alarm	10/20/2020
		4381193	D3R26: Fuel Handling Error During Fuel Shuffle 2	10/31/2020
		4381227	Level 1 Fuel Move Error	10/31/2020
		4381800	Reseat of Fuel Support Casting Location 18-23 Required	11/02/2020
		4383120	2 Valves Still Need Required Surveillance Testing	11/09/2020
		4385280	D3R26 Lessons Learned - Near Miss of PMT Required Prior to Mode 2	11/06/2020
		4385543	D3R26 Lessons Learned: Hydro Preps Conflict with IM Logic Testing	11/05/2020
		4385550	D3R26 Lessons Learned: Near Miss with PMT - Partial Procedure and New Conditions	11/06/2020
		4387354	Ops Crew Clock Reset: Quarterly Valve Timing	11/22/2020
		4390417	Entered DOA 4450-03 for Loss of Lift Station	12/15/2020
	Corrective Action Documents Resulting from Inspection	4379644	NRC Questioned PPE Requirements for Racking Breakers	10/26/2020
		4379684	Issues Identified During NRC Walkdown	10/26/2020
		4379958	NRC Concern	10/26/2020
	Work Orders	1386628	Repair 3-1501-19A Valve	11/28/2012