



**UNITED STATES  
NUCLEAR REGULATORY COMMISSION**

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

August 25, 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 – EMERGENCY  
PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT  
05000237/2021501 AND 05000249/2021501

Dear Mr. Rhoades:

On July 23, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Dresden Nuclear Power Station, Units 2 and 3. On July 22, 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,

A handwritten signature in cursive script that reads "Patricia J. Pelke".

Signed by Pelke, Patricia  
on 08/25/21

Patricia J. Pelke, Chief  
Operations Branch  
Division of Reactor Safety

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 Patricia J. Pelke dated August 25, 2021.

SUBJECT: DRESDEN NUCLEAR POWER STATION, UNITS 2 AND 3 – EMERGENCY  
PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT  
05000237/2021501 AND 05000249/2021501

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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: 05000237/2021501 and 05000249/2021501

Enterprise Identifier: I-2021-501-0016

Licensee: Exelon Generation Co., LLC

Facility: Dresden Nuclear Power Station, Units 2 and 3

Location: Morris, IL

Inspection Dates: July 19, 2021 to July 23, 2021

Inspectors: D. Chyu, Reactor Engineer  
M. Garza, Emergency Preparedness Inspector  
G. Hansen, Senior Emergency Preparedness Inspector  
G. Roach, Senior Operations Engineer

Approved By: Patricia J. Pelke, Chief  
Operations Branch  
Division of Reactor Safety

Enclosure

## **SUMMARY**

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an emergency preparedness biennial exercise 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.

## **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 (COVID-19), inspectors were directed to begin telework. In addition, regional baseline inspections were evaluated to determine if all or a portion 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**

### 71114.01 - Exercise Evaluation

#### Inspection Review (IP Section 02.01-02.11) (1 Sample)

- (1) The inspectors evaluated the Biennial Emergency Plan Exercise on July 20, 2021. The exercise scenario simulated an event at the Dresden Station that initiated with the declaration and notification of an Alert in response to abnormal plant conditions. The scenario conditions simulated the escalation of the significance of the event requiring the declaration and notification of a Site Area Emergency. The Site Area Emergency was the highest classification level reached, as planned, during the exercise.

### 71114.08 - Exercise Evaluation Scenario Review

#### Inspection Review (IP Section 02.01 - 02.04) (1 Sample)

- (1) The inspectors reviewed and evaluated the proposed scenario for biennial emergency plan exercise on June 16, 2021.

## **OTHER ACTIVITIES – BASELINE**

### 71151 - Performance Indicator Verification

The inspectors verified licensee performance indicators submittals listed below:

#### EP01: Drill/Exercise Performance (DEP) Sample (IP Section 02.12) (1 Sample)

- (1) January 1, 2020 through March 31, 2021

EP02: Emergency Response Organization (ERO) Drill Participation (IP Section 02.13)  
(1 Sample)

(1) January 1, 2020 through March 31, 2021

EP03: Alert and Notification System (ANS) Reliability Sample (IP Section 02.14) (1 Sample)

(1) January 1, 2020 through March 31, 2021

**INSPECTION RESULTS**

No findings were identified.

**EXIT MEETINGS AND DEBRIEFS**

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

- On July 22, 2021, the inspectors presented the emergency preparedness biennial exercise inspection results to Mr. P. Boyle, Plant Manager and other members of the licensee staff.

**DOCUMENTS REVIEWED**

Inspection Procedure	Type	Designation	Description or Title	Revision or Date	
71114.01	Corrective Action Documents	AR 04263026	DR-EP-2019-PEX-OSC-FAILED-DCS	07/10/2019	
		AR 04265601	2Q19 EP FAD Issues (DC Failure , Scenario Control, etc)	07/19/2019	
		AR 04268534	DR-EP-2019-NRC-MCR-FAILED-DCS	07/31/2019	
		AR 04268535	DR-EP-2019-NRC-TSC-FAILED-DCS	07/31/2019	
		AR 04268537	DR-EP-2019-NRC-OSC-FAILED-DCS	07/31/2019	
		AR 04374452	Dresden EP OYE Sim Unsat DCs, Sat with Comments, & Comments	10/05/2020	
		AR 04374521	Dresden EP OYE TSC DCs Sat with Comments and Other Comments	10/05/2020	
	AR 04375330	Objective Failure D.1 During Full PI Drill	10/08/2020		
	Miscellaneous			Drill Critique Reports	07/01/2019 - 07/01/2021
		EP-AA-1004		Radiological Emergency Plan Annex for Dresden Station	39
		EP-AA-1004 Addendum 3		Emergency Action Levels for Dresden Station	11
		EP-AA-111		Emergency Classification and Protective Action Recommendations	23
		EP-AA-112-100		Control Room Operations	19
		EP-AA-112-200		TSC Activation and Operation	14
		EP-AA-112-300		Operations Support Center Activation and Operation	14
		EP-AA-112-400		Emergency Operations Facility Activation and Operation	15
		EP-AA-113-F-19		Dresden Assembly, Accountability and Evacuation Guidelines	D
		EP-AA-114		NOTIFICATIONS	17
	71114.08	Miscellaneous		Dresden NRC Graded Exercise 60-Day NRC Submittal	
71151	Miscellaneous		NRC Performance Indicator Data, Emergency Preparedness – Alert and Notification System Reliability	01/01/2020 - 03/31/2021	
			NRC Performance Indicator Data, Emergency Preparedness – Drill/Exercise Performance	01/01/2020 - 03/31/2021	
			NRC Performance Indicator Data, Emergency Preparedness – ERO Drill Participation	01/01/2020 - 03/31/2021	