



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

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

September 6, 2022

Mr. David Rhoades
Senior Vice President
Constellation Energy Generation, LLC
President and Chief Nuclear Officer (CNO)
Constellation Nuclear
4300 Winfield Road
Warrenville, IL 60555

SUBJECT: DRESDEN NUCLEAR POWER STATION, UNITS 2 AND 3 – TRIENNIAL
INSPECTION OF EVALUATION OF CHANGES, TESTS AND EXPERIMENTS
BASELINE INSPECTION REPORT 05000237/2022012 AND 05000249/2022012

Dear Mr. Rhoades:

On August 18, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Dresden Nuclear Power Station, Units 2 and 3 and discussed the results of this inspection with Ms. C. Joseph, 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 "Richard A. Skokowski".

Signed by Skokowski, Richard
on 09/06/22

Richard A. Skokowski, Chief
Engineering Branch 3
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 Richard A. Skokowski dated September 6, 2022.

SUBJECT: DRESDEN NUCLEAR POWER STATION, UNITS 2 AND 3 – TRIENNIAL
INSPECTION OF EVALUATION OF CHANGES, TESTS AND EXPERIMENTS
BASELINE INSPECTION REPORT 05000237/2022012 AND 05000249/2022012

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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: 05000237/2022012 and 05000249/2022012

Enterprise Identifier: I-2022-012-0019

Licensee: Constellation Energy Generation, LLC

Facility: Dresden Nuclear Power Station, Units 2 and 3

Location: Morris, IL

Inspection Dates: July 11, 2022 to August 18, 2022

Inspectors: J. Benjamin, Senior Resident Inspector
A. Shaikh, Senior Reactor Inspector
M. Siddiqui, Reactor Inspector

Approved By: Richard A. Skokowski, Chief
Engineering Branch 3
Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a triennial inspection of evaluation of changes, tests and experiments baseline 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.

REACTOR SAFETY

71111.17T - Evaluations of Changes, Tests, and Experiments

Sample Selection (IP Section 02.01) (20 Samples)

The inspectors reviewed the following evaluations, screenings, and/or applicability determinations for 10 CFR 50.59 from February 2018.

- (1) Screen 13137, Temporarily Gag the U3 Reactor Feed Pump Recirculation Damper 3-5772-46 in Open Position
- (2) Screen 13148, High Pressure Coolant Injection (HPCI) Room Cooler Tube Plugging / Issue Minor Revision DRE-98-0077 Rev.001C
- (3) Screen 13264, Updated Final Safety Analysis Report (UFSAR) Change - HPCI Room Exemption from Harsh Environment
- (4) Screen 13362, Disable 2-3001-A / 2A steam jet air ejector (SJAE) Steam Isolation Valve in Closed Direction
- (5) Screen 13134, Hot Shutdown Procedure Path A1
- (6) Screen 13141, Trash Rake Operation
- (7) Screen 13177, Ventilation System (RB) Failure
- (8) Screen 13221, Temporary Configuration Change for Alternate Fire Pump
- (9) Screen 13217, Surveillance Frequency Change for Diesel Fire Pump Test
- (10) Screen 13453, Secondary Containment Leak Rate Test
- (11) Evaluation 2020-05-001, Unit 3 Installation of a Reactor Feed Pump (RFP) Suction Strainer 3-3404-A, 3-3404-B, 3-3404-C
- (12) Evaluation 2020-08-001, Install Switches to Bypass Fuel Pool Cooling Pump Low Suction Pressure Trips
- (13) Evaluation 2019-09-002, Unit 2 Installation of RFP Suction Strainer 2-3404-A, 2-3404-B, 2-3404-C
- (14) Screen 13130, Main Steam Isolation Valve Lo-Lo Level Keylock Switch Logic Change
- (15) Screen 13132, Defeat Alarm 2-0902 E-4 and E-6
- (16) Screen 13133, Add Clarifying Information Related to Acceptable Reactor Building Ventilation Lineup and Technical Specification Applicability
- (17) Screen 13140, TSFS-562-T Bases Clarification for Technical Specification (TS) 3.8.1, Required Action B.3.1 and B.3.2
- (18) Screen 13143, Change HPCI Injection Motor Operated Valve (MOV) 3-2301-8 Logic from Torque Switch Close to Limit Switch Close
- (19) Screen 13194, Change HPCI Injection MOV 2-2301-8 Logic from Torque Switch Close to Limit Switch Close

- (20) Screen 13219, Clarify Actions to Bypass HPCI Initiation Signal to Support Alternate Emergency Depressurization

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On August 18, 2022, the inspectors presented the triennial inspection of evaluation of changes, tests and experiments baseline inspection results to Ms. C. Joseph, Plant Manager and other members of the licensee staff.
- On July 15, 2022, the inspectors presented the Technical Debrief inspection results to Mr. P. Boyle, Site Vice President and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71111.17T	Calculations	DRE98-0077	Dresden HPCI Room Thermal Response with Reduced Room Cooler Capability	001C
	Corrective Action Documents	03984974	Unit 3 HPCI Room Cooler Eddy Current Results	03/14/2017
	Corrective Action Documents Resulting from Inspection	04510809	50.59 Inspection EC 625940 Record Submittal Needed	07/13/2022
	Engineering Changes	0000623029	Reactor Feed Pump Recirculation Damper 3-5772-46 Master Actuator Damper Pin Disconnected Resulting in Damper Gagged Open WO 04743349	0
		0000625940	Basis and Justification for Considering HPCI Room as Mild Environment in an Event of LOCA	11/28/2018
		0000628004	Disable the 2-3001-A / 2A SJAE Steam Supply Valve in Closed Position with Sealant Injection	0
		628890	Installation of Reactor Feed Pump (RFP) Suction Strainer 3-3404-A, 3-3404-B, 3-3404-C	0
		630570	Installation of Reactor Feed Pump (RFP) Suction Strainer 2-3404-A, 2-3404-B, 2-3404-C	0
		631971	Install Switches to Bypass Fuel Pool Cooling Pump Low Suction Pressure Trips	0
	Miscellaneous	Screening 13134	Hot Shutdown Procedure Path A1	0
		Screening 13141	Trash Rack Operation	07
		Screening 13177	Ventilation System (RB) Failure	72
		Screening 13217	Surveillance Frequency Change for Diesel Fire Pump Test	0
		Screening 13221	TCCP for Alternate Fire Pump	0
		Screening 13453	Secondary Containment Leak Rate Rest	0
		Training LT SEG 21-09E	Dresden Operations Training - Injecting with Standby Coolant	0
	Procedures	DEOP 500-3	Alternate Water Injection Systems	26
		LS-AA-104-1000	50.59 Resource Manual	14