



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
2443 WARRENVILLE ROAD, SUITE 210
LISLE, ILLINOIS 60532-4352

June 13, 2023

Terry Brown
Site Vice President
Energy Harbor Nuclear Corp.
Davis-Besse Nuclear Power Station
5501 N. State Rte. 2, Mail Stop A-DB-3080
Oak Harbor, OH 43449-9760

SUBJECT: DAVIS-BESSE NUCLEAR POWER STATION – EMERGENCY
PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
05000346/2023501

Dear Terry Brown:

On May 4, 2023, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Davis-Besse Nuclear Power Station and discussed the results of this inspection with Chris Jackson, 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 black ink, appearing to read "S. Orth".

Signed by Orth, Steven
on 06/13/23

Steven K. Orth, Chief
Security, Emergency Preparedness & Incident
Response Branch
Division of Radiological Safety and Security

Docket No. 05000346
License No. NPF-3

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV®

Letter to Terry Brown from Steven Orth date June 13, 2023.

SUBJECT: DAVIS-BESSE NUCLEAR POWER STATION – EMERGENCY
PREPAREDNESS BIENNIAL EXERCISE INSPECTION REPORT
05000346/2023501

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

Docket Number: 05000346

License Number: NPF-3

Report Number: 05000346/2023501

Enterprise Identifier: I-2023-501-0006

Licensee: Energy Harbor Nuclear Corp.

Facility: Davis-Besse Nuclear Power Station

Location: Oak Harbor, OH

Inspection Dates: May 01, 2023 to May 04, 2023

Inspectors: J. Beavers, Senior Resident Inspector
J. Cassidy, Senior Health Physicist
G. Hansen, Sr. Emergency Preparedness Inspector
J. Kutlesa, Emergency Preparedness Inspector
F. Tran, Senior Health Physicist

Approved By: Steven K. Orth, Chief
Security, Emergency Preparedness & Incident
Response Branch
Division of Radiological Safety and Security

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting an emergency preparedness biennial exercise inspection at Davis-Besse Nuclear Power Station, 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

71114.07 - Exercise Evaluation - Hostile Action (HA) Event

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

- (1) The inspectors observed the biennial hostile action event exercise and evaluated emergency plan performance on May 2, 2023. The exercise scenario simulated an event at the Davis-Besse Nuclear Power Station that initiated with the declaration and notification of a Site Area Emergency (SAE) in response to simulated hostile actions occurring within the site's Protected Area (PA). The scenario conditions simulated the escalation of the significance of the event, requiring the declaration of a General Emergency, as well as the development of Protective Action Recommendations that were communicated to the required state and local government agencies.

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 March 24, 2023.

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) April 1, 2022 through December 31, 2022

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

- (1) April 1, 2022 through December 31, 2022

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

(1) April 1, 2022 through December 31, 2022

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On May 4, 2023, the inspectors presented the emergency preparedness biennial exercise inspection results to Chris Jackson, Plant Manager, and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71114.07	Corrective Action Documents	CR-2021-02446	EP DRILL - Core Thermo-Hydraulic Engineer EP Workstation Issues	04/01/2021
		CR-2021-02451	EP DRILL - Failed Drill Objective F.8 Communications Regarding Core Damage	04/01/2021
		CR-2021-03706	EP Drill: Documentation Issues with Initial Notification and Periodic Update Forms	05/06/2021
		CR-2021-06476	EP DRILL: Staffing Issues in RTL Challenge Drill Objective Demonstration	08/26/2021
		CR-2021-06496	EP DRILL: Drill objective F.6 Not Met for Dose Assessment Due to Controller Inject	08/27/2021
		CR-2021-07433	EP Drill 10/5/2021: Thermoluminescent Dosimeters (TLD) and Self Reading Dosimeters (SRD) Were Not Properly Issued During Drill Medical Emergency	10/05/2021
		CR-2021-07482	EP Drill: Drill Objective C.1 Met with Comments for Initial Notifications for Alert, SAE	10/07/2021
		CR-2022-04415	EP Drill – Incorrect Release Path Analyzed Caused Missed Drill Objective F.13	05/25/2022
		CR-2023-01227	2023-02-21 Emergency Response Integrated Drill - Development of Protective Action Recommendations	02/22/2023
		CR-2023-02415	EP Drill: 2023-03-28 Emergency Response Dry Run - Protective Action Recommendations incorrect	03/29/2023
		CR-2023-02416	EP Drill: 2023-03-28 Emergency Response Dry Run - Initial Notification Not Timely Completed	03/29/2023
		CR-2023-02419	Negative Trend in Protective Action Recommendation Determinations	03/29/2023
		CR-2023-02485	EP Drill: 2023 Emergency Response Dry Run Drill: Three Objectives Not Met in Dose Assessment Field Monitoring Team Activities.	03/31/2023
	Miscellaneous		Davis-Besse Nuclear Power Station Emergency Plan	35
		Emergency Preparedness Drill and Exercise Reports (sample)	04/01/2021 - 04/30/2023	

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
	Procedures	RA-EP-01500	Emergency Classification	16
		RA-EP-02010	Emergency Management	21
		RA-EP-02110	Emergency Notification	19
		RA-EP-02220	EOF Activation and Response	17
		RA-EP-02240	Offsite Dose Assessment	10
		RA-EP-02245	Protective Action Guidelines	9
		RA-EP-02310	Technical Support Center Activation and Response	15
		RA-EP-02320	Emergency Technical Assessment	9
		RA-EP-02410	Operations Support Center Activation and Response	22
		RA-EP-02510	Emergency Security Activation and Response	16
		RA-EP-02520	Assembly and Accountability	7
RA-EP-02620	Emergency Dose Control and KI Distribution	6		
71114.08	Miscellaneous		Davis-Besse Nuclear Power Station Emergency Preparedness Evaluated Exercise Scenario	03/03/2023
71151	Miscellaneous		NRC Performance Indicator Data; Emergency Preparedness – Alert and Notification System Reliability	04/01/2022 - 12/31/2022
			NRC Performance Indicator Data; Emergency Preparedness - Drill/Exercise Performance	04/01/2022 - 12/31/2022
			NRC Performance Indicator Data; Emergency Preparedness – ERO Drill Participation	04/01/2022 - 12/31/2022