



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION III
2056 WESTINGS AVENUE, SUITE 400
NAPERVILLE, IL 60563-2657

August 6, 2025

Terry Brown
Site Vice President
Vistra Operations Company, LLC
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 – POST-APPROVAL LICENSE
RENEWAL; PHASE 4 REPORT 05000346/2025011

Dear Terry Brown:

On July 29, 2025, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Davis-Besse Nuclear Power Station and discussed the results of this inspection with you 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 "Néstor J. Feliz Adorno", is written over a horizontal line.

Signed by Feliz-Adorno, Nestor
on 08/06/25

Néstor J. Feliz Adorno, Chief
Engineering and Reactor Projects Branch
Division of Operating Reactor Safety

Docket No. 05000346
License No. NPF-3

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

Letter to Terry Brown from Néstor J. Feliz Adorno dated August xx, 2025.

SUBJECT: DAVIS-BESSE NUCLEAR POWER STATION – POST-APPROVAL LICENSE
RENEWAL; PHASE 4 REPORT 05000346/2025011

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U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Number: 05000346

License Number: NPF-3

Report Number: 05000346/2025011

Enterprise Identifier: I-2025-011-0032

Licensee: Vistra Operations Company, LLC

Facility: Davis-Besse Nuclear Power Station

Location: Oak Harbor, OH

Inspection Dates: July 14, 2025 to July 29, 2025

Inspectors: B. Jose, Senior Reactor Inspector
E. Magnuson, Reactor Inspector
A. Shaikh, Senior Reactor Inspector

Approved By: Néstor J Feliz Adorno, Chief
Engineering and Reactor Projects Branch
Division of Operating Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting a Post-Approval License Renewal; Phase 4 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.

OTHER ACTIVITIES – TEMPORARY INSTRUCTIONS, INFREQUENT AND ABNORMAL

71003 - Post-Approval Site Inspection for License Renewal

The NRC conducted this Phase 4 Post-Approval Site Inspection for License Renewal in accordance with the License Renewal Inspection Program (LRIP). Per Inspection Manual Chapter 2516, the LRIP is the process used by NRC staff to verify the adequacy of Aging Management Programs (AMPs), Time Limited Aging Analyses (TLAAs), and other activities associated with the renew an operating license of a commercial nuclear power plant beyond the initial licensing period under Title 10 of the *Code of Federal Regulations* (CFR), Part 54, "Requirements for the Renewal of Operating Licenses for Nuclear Power Plants." This inspection evaluated the licensee implementation of aging management activities by reviewing the AMPs listed below.

Post-Approval Site Inspection for License Renewal (6 Samples)

- (1) Nickel Alloy Management Program
- (2) Structures Monitoring Program
- (3) Above Ground Steel Tanks Inspection Program
- (4) Fire Water Aging Management Program
- (5) One Time Inspection Program
- (6) Inaccessible Medium Voltage Cables not Subject to 10 CFR 50.49 EQ Requirements Program

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 29, 2025, the inspectors presented the Post-Approval License Renewal; Phase 4 results to Terry Brown and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
71003	Corrective Action Documents	CR-2014-04548	Demin Water Supply Line Pipe Hanger Bent in Service Water Tunnel	03/07/2014
		CR-2014-12083	Volumetric Examination of Reactor Coolant System Branch Connection Butt Welds Under ASME Code Case N-770-1	07/22/2014
		CR-2016-09196	2016 Structures Monitoring; Room 30; Thru Wall Crack Identified	07/26/2016
		CR-2021-04894	Service Water Tunnel Ceiling Leak Impacting Conduits Below	06/23/2021
		CR-2022-09153	FSWOLs Item F-1 Compliance Review with 1 Additional Weld Required for 4th Interval	11/30/2022
		CR-2023-04143	Inadequate Timeliness to Complete Repairs to Switchyard Tower Foundations	05/17/2023
		CR-2023-05494	Transformer Structures Monitoring Inspection Findings	07/13/2023
		CR-2023-05610	Manhole 3044 Support Degradation	07/18/2023
		CR-2023-06260	Structures Monitoring - Turbine Building 567' Level	08/11/2023
		CR-2023-06565	Structures Monitoring - Turbine Building North Slab	08/23/2023
		CR-2023-06910	Structures Monitoring - Decay Heat Exchanger Pit Intermediate Deficiency	09/07/2023
		CR-2023-07979	Auxiliary Building Roof EN-DP-01511 Intermediate Deficiency	10/24/2023
		CR-2023-07990	Structures Monitoring - Diesel Oil Pump House	10/24/2023
		CR-2023-08369	Structures Monitoring - Water Treatment Facility	11/08/2023
		CR-2023-08568	Structures Monitoring - Service Water Tunnel and Valve Rooms Deficiencies	11/16/2023
		CR-2023-08841	Aging Management Inspection Scope Does Not Include Stairwell AB-1	11/29/2023
		CR-2023-08974	Structures Monitoring - BWST Trench Intermediate Deficiencies	12/06/2023
		CR-2024-03609	DB1R23 Cooling Tower and Canal Inspection Results	04/24/2024
		CR-2024-03873	Leakage from Service Water Tunnel Ceiling Dripping on Service Water Piping	04/30/2024

71003	Corrective Action Documents	CR-2025-03016	Structures Monitoring - BWST Trench Intermediate Deficiencies	04/21/2025
71003	Corrective Action Documents	CR-G201-2008-49007	Demin Water Header in Service Water Tunnel is Impacting Plant Equipment	11/06/2008
		OE-2015-0418-5	RIS 15-10, Applicability of ASME Code Case N-770-1 as Conditioned in 10 CFR 50.55a, "Codes and Standards," to Branch Connection Butt Welds	08/03/2015
	Corrective Action Documents Resulting from Inspection	CR 2025-05109	2025 LR Phase 4 Inspection: NRC-Identified Temporary Heater in DFP Room not Sufficiently Secured	07/16/2025
		CR 2025-05360	2025 LR Phase 4 Inspection: NRC-Identified Improvement Opportunity for DB-FP-04035 Acceptance Criteria	07/28/2025
	Drawings	ISI-SK-006	Reactor Vessel Instrumentation Nozzle Details	2
		M-503-00095	Reactor Vessel Details	2
		M-503-00214	Instrument Nozzle Detail and Assembly	1
		M-503-00224	Modified Instrumentation Nozzle	2
	Engineering Changes	12-0764-000	Intake Canal Embankment	03/26/2013
	Engineering Evaluations	CTLGroup Project No. 000110	Petrographic Examination of Concrete Cores from Davis-Besse Nuclear Power Plant, Oak Harbor, Ohio	03/26/2021
		LRPD-05	Aging Management Program Evaluation Results - Fire Water Program	4
		LRPD-05, Attachment 2.11	Aging Management Program Evaluation Results - One Time Inspection Program	7
		LRPD-05; Attachment 4.3	Aging Management Program Evaluation Results for Inaccessible Power Cables not Subject to 10 CFR 50.49 Requirements	4
		LRPD-06	Aging Management Program Evaluation Results - Above Ground Steel Tanks Inspection Program	6
	NDE Reports	20-Vendor-003	Ultrasonic Examination of RC-MK-B-61-1-SW69A OWOL	03/13/2018
		20-Vendor-006	Ultrasonic Examination of RC-MK-B-56-1-SW143A OWOL	03/13/2018
		20-Vendor-009	Ultrasonic Examination of RC-MK-B-61-1-SW69A OWOL	03/14/2018
		22-Vendor-001	Bare Metal Visual Examination of Reactor Pressure Vessel Bottom Head and Instrument Penetrations	03/21/2022
		24P-VT-033	Bare Metal Visual Examination of Hot Leg Level Tap RC-MK-A-32-1-WLB	03/22/2024
		API 653	Out of Service Inspection Report CST T31-2	04/10/2016

		API 653	Out of Service Inspection Report CST T31-1	04/10/2016
		API 653	In Service Inspection Report DOST T-45	04/08/2016
		BOP-PT-16-085	PT Exam of 25 Locations on BWST 1-1	09/21/2016
		BOP-UT-16-048	UT Exam of 25 Locations on BWST 1-1	09/22/2016
		BOP-VT-16-083	VT-3 of T31-1 CST Inside Surface	04/11/2016
		BOP-VT-16-084	VT-3 of T31-1 CST Outside Surface	04/11/2016
		BOP-VT-16-101	VT-3 of T31-2 CST Inside Surface	04/14/2016
		BOP-VT-16-102	VT-3 of T31-2 CST Outside Surface	04/14/2016
		BOP-VT-16-184	VT-1 of BWST 1-1 Outside Surfaces	09/22/2016
		BOP-VT-25-006	VT-3 of BWST Tank for Aging Mechanisms	06/03/2025
		DB-VE-1R23-001	Ultrasonic Examination of DH-33A-CCA-4-1-FW1 Overlay	03/22/2024
		DB-VE-1R23-002	Ultrasonic Examination of RC-MK-A-67-3-FW105B Overlay	03/22/2024
		NUC2016118	Ultrasonic Thickness (UT) Examination of Borated Water Storage Tank (BWST) Floor	0
	Procedures	DB-FP-04035	5 Year Flow Test	09
		DB-OP-06272	Station Drainage and Discharge System	35
		DB-PF-00104	Inservice Inspection Program	19
		DB-PF-00108	Alloy 600/690 Management Program	11
		DB-PF-00108	Alloy 600/690 Management Program	11
		EN-DP-01511	Structures Monitoring	16
		EN-DP-01521	Administrative Procedure; Inaccessible Power Cables Not Subject to 10 CFR 50.49, Environmental Qualifications Requirements	1
		ISIS-5	Fifth Ten Year Inservice Inspection Schedule	0
		NG-EN-00552	Administrative Procedure for One Time Inspection Program	0
		NOP-CC-5003	Processing Deviations to Materials Initiative Guidance	6
		NOP-CC-5708	Written Practice for the Qualification and Certification of Nondestructive Examination Personnel	17
		NOP-CC-5735	System Leakage (VT-2) Examinations	4
		NOP-ER-2003	Alloy 600/690 Management Program	4
		NOP-OP-1012	Material Readiness and Housekeeping Inspection Program	13
		NOP-WM-4007-01	Excavation Permit	05

71003	Procedures	WDI-STD-1151	Generic Procedure for the Manual Ultrasonic Examination of Weld Overlaid Similar and Dissimilar Metal Welds Using EPRI-WOL-PA-01	2
	Work Orders	200380013	DOST T-45 Internal Inspection	08/19/2021
		200556326	Intake Canal Embankment	12/12/2014
		200600767	Core Boring in ECCS Pump Rm 1	12/14/2014
		200631788	DOST T-45 Calking Inspection	09/16/2016
		200675052	DB-T31-1 CST External Visual Exam and UT PM	01/18/2019
		200675053	DB-T31-2 CST External Visual Exam and UT PM	12/12/2019
		200882586	DOST T-45 PM	01/08/2024
		200919164	BWST Pit Structures Monitoring Inspection	04/21/2025
		200919196	Remote Insp Mkup/Purif Fltr Rm	05/21/2025