



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

July 7, 2026

Ronald P. Worster
General Manager/Project Director
Kewaunee Solutions
N490 Highway 42
Kewaunee, WI 5421

SUBJECT: KEWAUNEE POWER STATION – NRC INSPECTION REPORT
05000305/2026002

Dear Ronald P. Worster:

On June 17th, 2026, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at Kewaunee Power Station (KPS). On June 17th, 2026, the NRC inspector discussed the results of this inspection with yourself and other members of your staff. The results of this inspection are documented in the enclosed report.

During the inspection, the NRC inspector reviewed the following aspects of onsite activities: Decommissioning Fire Protection Program. Decommissioning Implementation and Status, Decommissioning Occupational Radiation Control, Decommissioning Radioactive Waste Treatment, and Effluent and Environmental Monitoring, and Decommissioning Solid Radioactive Waste Management, Demolition and Transportation of Radioactive Materials.

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 "David E. Hills".

Signed by Hills, David
on 07/07/26

David E. Hills, Acting Chief
Decommissioning and Closure Oversight Branch
Div of Fuel Cycle & Mtrls Oversight

Docket No. 05000305
License No. DPR-43

Enclosure:
IR No. 05000305/2026002

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U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report

Docket Number: 05000305

License Number: DPR-43

Report Number: 05000305/2026002

Enterprise Identifier: I-2026-002-0078

Licensee: Kewaunee Solutions

Facility: Kewaunee Power Station

Location: Kewaunee, Wisconsin

Inspection Dates: April 20-23, 2026
June 15-17, 2026

Inspectors: M. LaFranzo, Senior Health Physicist

Approved By: David E. Hills, Acting Chief
Decommissioning and Closure Oversight Branch
Div of Fuel Cycle & Mtrls Oversight

Enclosure

SUMMARY

This U.S. Nuclear Regulatory Commission (NRC) inspection was a routine, announced inspection of decommissioning activities being conducted at the facility. No violations were identified.

List of Findings and Violations

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

Additional Tracking Items

None.

PLANT STATUS

Kewaunee Power Station is located south of Kewaunee, Wisconsin on the shore of Lake Michigan. The licensee is currently in active decommissioning of the site to include, but not limited to, Reactor Vessel Internal (RVI) segmentation, the shipment of radioactive material and components and demolition of buildings in accordance with NRC rules and regulations.

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) 2561, "Decommissioning Power Reactor Inspection Program." 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.

1.0 64704 - Decommissioning Fire Protection Program

01.01 Fire Protection Program (IP Section 03.01)

The inspector assessed various aspects of the licensee's fire protection program to ensure the program is maintained and implemented to minimize the potential release of radioactive material from fire events.

The inspector reviewed the licensee's administrative controls for maintaining the fire protection program by performing the following activities:

- Review of changes to the defueled fire hazards analysis
- Review of changes to procedures

01.02 Fire Area Walkdown and Work Observations (IP Section 03.02)

The inspector reviewed implementation of the fire protection program by conducting walkdowns and verify controls are in place for the use and storage of combustible materials in a manner that minimizes the occurrence of fires.

The inspector assessed the licensee's control of combustible material by performing walkdowns the following areas:

- Auxiliary Building
- Containment
- Waste Handling Facility

The inspector assessed the licensee's hot work controls by performing the following:

- Observation of torch work associated with concrete removal

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The inspector assessed the licensee's training program by performing the following:

- Review of training and qualification records for fire brigade members
- Review of training program for off-site support facilities

01.03 Verification of the Fire Protection Systems and Equipment (IP Section 03.03)

The inspector reviewed fire protection features were effectively maintained and capable of performing their intended function using a risk-based approach.

The inspector assessed fire detection systems by performing the following:

- Walkdowns of fire detection equipment in the waste handling facility
- Review of maintenance and testing records for fire detection equipment

The inspector assessed fire suppression systems by performing the following:

- Walkdowns of the Auxiliary Building, Containment and the Waste Handling Facility
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The inspector assessed fire water supply systems by performing the following:

- Walkdowns and review of material in the Auxiliary Building, Containment and Waste Handling Facility
- Walkdowns and review of maintenance records for fire hydrants

The inspector assessed fire protection equipment by performing the following:

- Walkdowns of personnel protective equipment
- Walkdowns of portable fire extinguishers in the Auxiliary Building, Containment and Waste Handling Facility

01.04 Problem Identification and Resolution (IP Section 03.04)

The inspector reviewed the identifying problems related to the fire protection program.

The inspector assessed whether problems associated with the fire protection program were being identified by the licensee at an appropriate threshold and were properly addressed for resolution.

2.0 71801 - Decommissioning Implementation and Status

The inspector evaluated the status of decommissioning and assessed whether the licensee was conducting decommissioning in accordance with regulatory and license requirements.

02.01 Status of Decommissioning (IP Section 03.01)

The inspector assessed the status and conduct of facility decommissioning by attending and observing licensee meetings that plan, review, assess and/or schedule the conduct of facility decommissioning.

The inspector assessed the general status of decommissioning at the site by performing the following:

- 1) Comparing general decommissioning progress to the schedules in the post shutdown decommissioning activities report and/or license termination plan; and
- 2) Reviewing backlogs of maintenance activities and management's involvement/knowledge of the backlogged activities.

Since the previous inspection, the following major decommissioning activities have occurred:

- 1) RV segmentation is continuing; and
- 2) WHB is operational

3.0 83750 - Decommissioning Occupational Radiation Control

The inspector observed and reviewed various aspects of the occupational radiation protection program to ensure adequate protection to worker health and safety.

03.01 Radiological Work Planning and Execution (IP Section 03.01)

The inspector reviewed the licensee was identifying and assessing the magnitude and extent of radiological hazards and is adequately implementing radiological controls.

The inspector observed the following radiological work activities to evaluate the licensee's work planning and execution:

- Reactor Vessel Internal segmentation activities
- General segmentation activities
- Solid waste segregation activities

The inspector conducted walkdowns of the following areas to assess radiological postings and controls:

- Containment
- Auxiliary Building
- Waste Handling Facility

03.02 Problem Identification and Resolution (IP Section 03.03)

The inspector reviewed the licensee was identifying problems at an appropriate threshold and that appropriate corrective actions are being implemented in a timely manner.

The inspector assessed whether problems associated with occupational radiation control were being identified by the licensee at an appropriate threshold and were properly addressed for resolution.

4.0 84750 - Decommissioning Radioactive Waste Treatment, and Effluent and Environmental Monitoring

The inspector assessed various aspects of the radiological effluent and environmental monitoring programs to ensure adequate protection of public health and safety.

04.01 Implementation of the Radiological Effluent and Groundwater Protection Initiative Programs (IP Section 03.03)

The inspector reviewed the radiological effluent and environmental programs are being implemented consistent with the regulations and ODCM.

The inspector assessed the gaseous and liquid effluent release program by performing the following:

- Review of gaseous/liquid effluent release
- Review of dose calculations for gaseous/liquid effluent release

04.02 Problem Identification and Resolution (IP Section 03.04)

The inspector reviewed the licensee is identifying programs related to radioactive effluent, environmental, and ground water monitoring programs at the appropriate threshold and entering them into the corrective action program.

The inspector assessed whether problems associated with radiological effluents, environmental monitoring, and groundwater protection were being identified by the licensee at an appropriate threshold and were properly addressed for resolution.

5.0 86750 - Decommissioning Solid Radioactive Waste Management, Demolition and Transportation of Radioactive Materials

The inspector assessed various aspects of the licensee's programs for processing, handling, storage, and transportation of radioactive material; as well as the demolition of radiologically impacted buildings.

05.01 Transportation of Radioactive Materials (IP Section 03.02)

The inspector reviewed shipments containing radioactive material in accordance with regulatory and site requirements.

The inspector assessed the licensee's transportation program by performing the following:

- Review of the shipping packages

05.02 Demolition and Disposition of Radiologically Impacted Structures (IP Section 03.03)

The inspector reviewed demolition and disposition of radiologically impacted structures conducted in accordance with applicable regulations and site procedures.

The inspector assessed the licensee's program for demolition and disposition of radiologically impacted structures by performing the following:

- Review of surveys taken to support the demolition Auxiliary Building
- Review of the demolition plan developed for the Auxiliary Building

05.03 Problem Identification and Resolution (IP Section 03.04)

The inspector reviewed the licensee identifying problems related to radioactive waste storage, processing, and transportation activities at an appropriate threshold and entering them into the corrective action program.

The inspectors assessed whether problems associated with radioactive waste management, transportation, and demolition were being identified by the licensee at an appropriate threshold and were properly addressed for resolution.

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

- On June 17, 2026, the inspector presented the NRC inspection results to Ronald P. Worster and other members of the licensee staff.

DOCUMENTS REVIEWED

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
64704-Cat3	Miscellaneous	LOIFR	Kewaunee Fire Department Annual Fire Drill 2025-2026	April 16, 2026
		LOIFR - Fire Drill Status	LOIFR - Fire Drill Status	April 9, 2026
	Work Orders	KS-C-AB-WKPG-0327 26-014	Hot Work Permit	March 24, 2026
71801-Cat3	Miscellaneous	Plan of the Day	Kewaunee Power Station - Plan of the Day	April 21, 2026
		Plan of the Day	Kewaunee Power Station - Plan of the Day	April 22, 2026
		Plan of the Day	Kewaunee Power Station - Plan of the Day	April 23, 2026
		Plan of the Day	Kewaunee Power Station - Plan of the Day	June 17, 2026
83750-Cat3	Procedures	WDD-OP-00099-WPS	Kewaunee RVI Segmentation Project Mobilization Procedure	Revision 2
		WDD-PD-00764-WPS	Kewaunee RVI Segmentation Housekeeping Plan	Revision 0
		WDD-PJ-01293-WPS	Kewaunee RVI Project Rigging Plan	Revision 2
		WDD-WI-01095-WPS	Kewaunee RVI Segmentation Project Fall 2025 Equipment Setup Work Plan	Revision 5
	Radiation Surveys	KS-M-20260324-5	586' Aux ICS Pump Room Pipe Removal	March 30, 2026
		KS-M-20260507-12	Aux Building 586' ICS Pump room	May 11, 2026
		KS-M-20260615-8	Aux 586' - CTMT Spray Pump System Removal (ICS Pump Room)	June 16, 2026
	Miscellaneous	KS-2026-013	2025 Annual Radiological Environmental Operating Report	May 14, 2026
		L114300 EN010-3EREMPKEW-22	Report of Analysis	June 15, 2026

Enclosure

Inspection Procedure	Type	Designation	Description or Title	Revision or Date
86750-Cat3	Shipping Records	1077-C-0003	Shipment - LSA	May 5, 2026
		1077-C-0004	Shipment - LSA	May 12, 2026
		1077-C-0005	Shipment - LSA	May 27, 2026
		1077-C-0006	Shipment - LSA	June 3, 3026
		1077-C-0012	Shipment - LSA	March 14, 2026
		Package MHFU 204201	Exclusive Use Shipment	March 10, 2026
		RVH BAG / KPS-51400	Exclusive Use Shipment	March 12, 2026