



Dresden Nuclear Power Station
6500 North Dresden Road
Morris, IL 60450

September 29, 2025

10 CFR 50.73

SVPLTR 25-0060

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, DC 20555-0001

Dresden Nuclear Power Station, Units 2 and 3
Renewed Facility Operating License Nos. DPR-19 and DPR-25
NRC Docket Nos. 50-237 and 50-249

Subject: Licensee Event Report 237/2025-001-00, Ultimate Heat Sink Inoperable due to River Grass Accumulation

Enclosed is Licensee Event Report 237/2025-001-00, Ultimate Heat Sink Inoperable due to River Grass Accumulation. This report describes an event being reported in accordance with 10 CFR 50.73(a)(2)(v)(B) for an event or condition that could have prevented the fulfillment of the safety function of structures or systems that are needed to remove residual heat.

There are no regulatory commitments contained in this submittal.

Should you have any questions concerning this letter, please contact Mr. Daniel J. Murphy, Regulatory Assurance Manager, at (779) 231-7443.

Respectfully,

A handwritten signature in red ink that reads "Hardik Patel".

Hardik Patel
Site Vice President
Dresden Nuclear Power Station

Enclosure: Licensee Event Report 237/2025-001-00

IEZZ
NRR



LICENSEE EVENT REPORT (LER)

(See Page 2 for required number of digits/characters for each block)

(See NUREG-1022, R.3 for instruction and guidance for completing this form
<http://www.nrc.gov/reading-rm/doc-collections/nuregs/staff/sr1022/r3/>)

Estimated burden per response to comply with this mandatory collection request: 80 hours. Reported lessons learned are incorporated into the licensing process and fed back to industry. Send comments regarding burden estimate to the FOIA, Library, and Information Collections Branch (T-6 A10M), U. S. Nuclear Regulatory Commission, Washington, DC 20555-0001, or by email to Infocollections.Resource@nrc.gov, and the OMB reviewer at OMB Office of Information and Regulatory Affairs, (3150-0104), Attn: Desk Officer for the Nuclear Regulatory Commission, 725 17th Street NW, Washington, DC 20503. The NRC may not conduct or sponsor, and a person is not required to respond to, a collection of information unless the document requesting or requiring the collection displays a currently valid OMB control number.

1. Facility Name	☒ 050 ☐ 052	2. Docket Number	3. Page
Dresden Nuclear Power Station, Unit 2		00237	1 OF 3

4. Title
Ultimate Heat Sink Declared Inoperable due to River Grass Accumulation

5. Event Date			6. LER Number			7. Report Date			8. Other Facilities Involved		
Month	Day	Year	Year	Sequential Number	Revision No.	Month	Day	Year	Facility Name	☒ 050 ☐ 052	Docket Number
07	30	2025	2025	- 001 -	00	09	29	2025	Dresden, Unit 3		00249
									Facility Name		Docket Number

9. Operating Mode	10. Power Level
1	100

11. This Report is Submitted Pursuant to the Requirements of 10 CFR §: (Check all that apply)

☒ 10 CFR Part 20	☐ 20.2203(a)(2)(vi)	☒ 10 CFR Part 50	☐ 50.73(a)(2)(ii)(A)	☐ 50.73(a)(2)(viii)(A)	☐ 73.1200(a)
☐ 20.2201(b)	☐ 20.2203(a)(3)(i)	☐ 50.36(c)(1)(i)(A)	☐ 50.73(a)(2)(ii)(B)	☐ 50.73(a)(2)(viii)(B)	☐ 73.1200(b)
☐ 20.2201(d)	☐ 20.2203(a)(3)(ii)	☐ 50.36(c)(1)(ii)(A)	☐ 50.73(a)(2)(iii)	☐ 50.73(a)(2)(ix)(A)	☐ 73.1200(c)
☐ 20.2203(a)(1)	☐ 20.2203(a)(4)	☐ 50.36(c)(2)	☐ 50.73(a)(2)(iv)(A)	☐ 50.73(a)(2)(x)	☐ 73.1200(d)
☐ 20.2203(a)(2)(i)	☒ 10 CFR Part 21	☐ 50.46(a)(3)(ii)	☐ 50.73(a)(2)(v)(A)	☒ 10 CFR Part 73	☐ 73.1200(e)
☐ 20.2203(a)(2)(ii)	☐ 21.2(c)	☐ 50.69(g)	☒ 50.73(a)(2)(v)(B)	☐ 73.77(a)(1)	☐ 73.1200(f)
☐ 20.2203(a)(2)(iii)		☐ 50.73(a)(2)(i)(A)	☐ 50.73(a)(2)(v)(C)	☐ 73.77(a)(2)(i)	☐ 73.1200(g)
☐ 20.2203(a)(2)(iv)		☐ 50.73(a)(2)(i)(B)	☐ 50.73(a)(2)(v)(D)	☐ 73.77(a)(2)(ii)	☐ 73.1200(h)
☐ 20.2203(a)(2)(v)		☐ 50.73(a)(2)(i)(C)	☐ 50.73(a)(2)(vii)		

☐ OTHER (Specify here, in abstract, or NRC 366A).

12. Licensee Contact for this LER

Licensee Contact	Phone Number (Include area code)
Daniel J. Murphy, Manager Site Regulatory Assurance	(779) 231-7443

13. Complete One Line for each Component Failure Described in this Report

Cause	System	Component	Manufacturer	Reportable to IRIS	Cause	System	Component	Manufacturer	Reportable to IRIS
N/A	N/A	N/A	N/A						

14. Supplemental Report Expected		15. Expected Submission Date		
☐ No	☒ Yes (If yes, complete 15. Expected Submission Date)	Month	Day	Year
		12	19	2025

16. Abstract (Limit to 1326 spaces, i.e., approximately 13 single-spaced typewritten lines)

On July 30, 2025, at 1645 CDT, Technical Specification (TS) 3.7.3, "Ultimate Heat Sink (UHS)" Limiting Conditions for Operation (LCO) was not met, and Condition A, UHS Inoperable, was entered due to UHS water level below 501.5 feet. TS 3.7.3 Condition A was exited at 1653 CDT when UHS water level was restored to ≥ 501.5 per Surveillance Requirement (SR) 3.7.3.1. The cause of the low water level was due to accumulation of river vegetation and grass on the Unit 2/3 Intake Bay 13 bar racks. Corrective actions included clearing river vegetation from the Unit 2/3 Intake Bay 13 bar racks, troughs, and traveling screens, as well as transitioning the lake cooling system to partial closed cycle. An evaluation of the event is currently in progress to determine any contributing causes to the event as well as additional corrective actions.

This event is being reported in accordance with 10 CFR 50.73(a)(2)(v)(B), "Any event or condition that could have prevented the fulfillment of the safety function of structures or systems that are needed to remove residual heat."

**LICENSEE EVENT REPORT (LER)
CONTINUATION SHEET**

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1. FACILITY NAME Dresden Nuclear Power Station	☒ 050	2. DOCKET NUMBER 00237	3. LER NUMBER		
	☐ 052		YEAR 2025	SEQUENTIAL NUMBER - 001	REV NO. - 00

NARRATIVE**PLANT AND SYSTEM IDENTIFICATION – UNIT 2**

General Electric – Boiling Water Reactor, 2957 megawatts thermal rated core power

Energy Industry Identification System (EIIIS) codes are identified in the text as [XX].

A. CONDITIONS PRIOR TO EVENT

Unit: 2 Event Date: July 30, 2025 Event Time: 1645 CDT

Reactor Mode: 1 Mode Name: Power Operation Power Level 100%

No systems, structures, or components that were inoperable at the start of the event contributed to the event.

B. DESCRIPTION OF EVENT

On July 30, 2025, at 1635 CDT, Operations entered the abnormal operating procedure for 2/3 Cribhouse [NN] plugging due to intake bay levels at 503 feet. At 1645 CDT, a non-licensed operator reported that Bay 13 level was less than 501.5 feet due to a significant grassing event impacting the Cribhouse [NN] Intake Canal log boom and bar racks. This condition did not meet Technical Specification (TS) 3.7.3, "Ultimate Heat Sink (UHS)" [BS], and required entering Condition A, UHS Inoperable. The associated Required Actions and Completion Times were A.1, be in Mode 3 in 12 hours, and A.2, be in Mode 4 in 36 hours. Actions were taken to clear river vegetation and grass from the intake bar racks, troughs, traveling screens. Condition A was exited when UHS [BS] water level was restored to $\geq$ 501.5 feet at 1653 CDT.

The NRC was notified via ENS Report 57841 at 2341 CDT on July 30, 2025.

This event is being reported in accordance with 10 CFR 50.73(a)(2)(v)(B), "Any event or condition that could have prevented the fulfillment of the safety function of structures or systems that are needed to remove residual heat."

C. CAUSE OF EVENT

The cause of low water level was due to accumulation of river vegetation and grass on the Unit 2/3 Bay 13 Intake bar racks. An evaluation of the event is currently in progress. A supplemental report will be submitted with the conclusions of this evaluation.

D. SAFETY ANALYSIS

The UHS [BS] consists of water sources from either the Kankakee River (normal) or the cooling lake (alternate) and can be aligned as either a closed cycle operating system utilizing the cooling lake and canals, or an open cycle operating system with the discharge returning to the Illinois River.

The Ultimate Heat Sink (UHS) [BS] provides a suction pathway for the cooling water associated with Containment Cooling Service Water (CCSW) [BI], and Diesel Generator Cooling Water (DGCW) [LB] systems. The TS Surveillance Requirement (SR) verifies water level in the suction bays is sufficient for proper operation of the CCSW [BI] and DGCW [LB] pumps [P]. The CCSW [BI] pumps [P] take suction from Bay 13.



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NARRATIVE

There were no actual safety consequences affecting the general safety of the public, nuclear safety, industrial safety, or radiological safety because of this event. The station did not operate beyond TS Required Action Completion Times. The duration of the degraded condition (i.e., UHS [BS] inoperability) was 8 minutes.

E. CORRECTIVE ACTIONS

Corrective actions included clearing river vegetation from the Unit 2/3 Intake Bay 13 bar racks, troughs, and traveling screens, as well as transitioning the lake cooling system to partial Closed Cycle. An evaluation is in progress to determine any contributing causes, as well as additional corrective actions.

F. PREVIOUS OCCURENCES

A 5-year internal corrective action program and Licensee Event Report (LER) database review was performed for Dresden Nuclear Power Station (DNPS). One similar event at DNPS occurred in 2022 and was reported in LER 2022-002-01. The root cause of this event was determined to be procedures and processes were not aligned with industry excellence standards to prevent intake blockage events. The primary corrective action was implementation of a new site-specific procedure to implement predictive measures for macrophyte blockage events and prevent grass intrusion into the intake structure by calling for vendor support to sweep away upstream debris, cleaning the log boom, and transitioning to closed cycle. This occurrence is being reviewed for potential applicability to the issue documented in this report as part of the evaluation currently in progress.

G. COMPONENT FAILURE DATA

Not applicable