



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

January 7, 2022

Mr. John Sauger
Executive VP and Chief Nuclear Officer
EnergySolutions, LLC
121 West Trade Street, Suite 2700
Charlotte, NC 28202

SUBJECT: NRC INSPECTION REPORT NO. 05000409/2021001(DNMS) – LA CROSSE BOILING WATER REACTOR

Dear Mr. Sauger:

On December 15, 2021, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at the La Crosse Boiling Water Reactor (LACBWR) in Genoa, Wisconsin. The purpose of the inspection was to determine whether the decommissioning facility was maintained safely and in accordance with NRC requirements. The enclosed report presents the results of this inspection, which were discussed with Mr. S. Zoller of your staff on December 15, 2021.

The inspection consisted of an examination of activities at the facility as they relate to safety and compliance with the Commission's rules and regulations. Areas examined during the inspection included facility management and control, radiological safety, and confirmatory survey. Within these areas, the inspection consisted of a selective examination of procedures and representative records, field observations of activities in progress, and interviews with personnel.

Based on the results of this inspection, the NRC did not identify any violations.

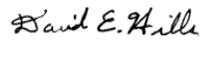
This letter, its enclosure, and your response (if any) will be made available for public inspection and copying at <http://www.nrc.gov/reading-rm/adams.html> and at the NRC Public Document Room in accordance with Title 10 of the *Code of Federal Regulations* (CFR) 2.390, "Public Inspections, Exemptions, Requests for Withholding."

J. Sauger

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We will gladly discuss any questions you have concerning this inspection. If you have any questions, please contact Dr. Peter Lee of my staff at 630-829-9870.

Sincerely,

 Signed by Hills, David
on 01/07/22

David E. Hills, Chief
Materials Control, ISFSI, and
Decommissioning Branch
Division of Nuclear Materials Safety

Docket No. 50-409
License No. DPR-45

Enclosure:
IR 05000409/2021001(DNMS)

cc w/encl: LaCrosseSolutions Service List

Letter to John Sauger from David Hills dated January 7, 2022.

SUBJECT: NRC INSPECTION REPORT NO. 05000409/2021001(DNMS) - LA CROSSE
BOILING WATER REACTOR

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U.S. NUCLEAR REGULATORY COMMISSION

REGION III

Docket No.: 05000409

License No.: DPR-45

Report No.: 050-00409/2021001(DNMS)

Enterprise Identifier: I-2021-001-0083

Licensee: LaCrosseSolutions, LLC

Facility: La Crosse Boiling Water Reactor

Location: Genoa, Wisconsin

Dates: December 15, 2021

Inspector: Peter J. Lee, Reactor (Decom), Ph.D., CHP

Approved by: David E. Hills, Chief
Materials Control, ISFSI, and
Decommissioning Branch
Division of Nuclear Materials Safety

Enclosure

EXECUTIVE SUMMARY

La Crosse Boiling Water Reactor (LACBWR) U.S. Nuclear Regulatory Commission (NRC) Inspection Report No. 05000409/2021001 (DNMS)

This periodic inspection covered aspects of facility management and control, radiological safety, and confirmatory survey.

Facility Management and Control

- The inspector confirmed that since no decommissioning activity occurred at the decommissioned facility, no correction action was conducted in 2021. (Section 1.1)
- The inspector determined that the licensee was adequately controlling licensed areas while the NRC's review of Final Status Survey Reports (FSSRs) is ongoing. (Section 1.2)

Radiological Safety

- The inspectors confirmed that no radiological work remained at the decommissioned facility. (Section 2.1)
- The inspector confirmed that since no effluent release occurred at the decommissioned facility, no environmental monitoring was conducted in 2021. (Section 2.2)
- The inspector confirmed that all remaining radioactive waste shipments were completed in September 2019 and there were no shipments in 2021. (Section 2.3)

Confirmatory Survey

- The inspector confirmed that the FSS units were being maintained appropriately while the NRC continues its review of the FSSRs. (Section 3.1)

Report Details¹

Summary of Plant Activities

During the inspection period, the licensee maintained the decommissioning facility in its planned final state of decommissioning while the NRC continues its review of the licensee's FSSRs.

1.0 Facility Management and Control

1.1 Self-Assessment, Auditing, and Corrective Actions (IP 40801)

a. Inspection Scope

The inspector interviewed plant personnel to assess whether licensee's administrative procedures prescribed actions for the identification, evaluation, and resolution of problems.

b. Observations and Findings

As of October 2019, the site had completed field decommissioning work. The inspector confirmed that no correction action occurred in 2021.

No findings were identified.

c. Conclusions

The inspector confirmed that since no decommissioning activity occurred at the decommissioned facility, no correction action was conducted in 2021.

1.2 Decommissioning Performance and Status Review at Permanently Shut Down Reactors (IP 71801)

a. Inspection Scope

The inspectors conducted a site tour on December 15, 2021, to assess field conditions and to ensure the final state of the facility was being controlled while the NRC's review of the licensee's submitted FSSRs is ongoing.

¹NOTE: A list of acronyms used in the report is included at the end of the report.

b. Observations and Findings

As of October 2019, the site had completed field decommissioning work. The inspector confirmed that no decommissioning work occurred in 2021. Licensed areas were observed to be adequately controlled while the NRC's review of FSSRs is ongoing.

No findings were identified.

c. Conclusions

The inspectors determined that the licensee was adequately controlling licensed areas while the NRC's review of FSSRs is ongoing.

2.0 Radiological Safety

2.1 Occupational Radiation Exposure (IP 83750)

a. Inspection Scope

The inspectors toured the facility on December 15, 2021, to assess the condition of the facility and associated controls.

b. Observations and Findings

As of October 2019, the site had completed field decommissioning work. The inspector confirmed that no radiological work was occurring in 2021.

No findings were identified.

c. Conclusions

The inspectors confirmed that no radiological work remained at the decommissioned facility.

2.2 Radioactive Waste Treatment, and Effluent and Environmental Monitoring (IP 84750)

a. Inspection Scope

The inspectors toured the facility on December 15, 2021, to assess the facility with respect to radioactive waste, and effluent and environmental monitoring.

b. Observations and Findings

As of October 2019, the site had completed field decommissioning work. The inspector confirmed that no effluent release was occurring in 2021.

No findings were identified.

c. Conclusions

The inspector confirmed that since no effluent release occurred at the decommissioned facility, no environmental monitoring was conducted in 2021

2.3 Transportation of Radioactive Materials (IP 86750)

a. Inspection Scope

The inspector toured the facility on December 15, 2021, to assess whether any radioactive material was on-site and waiting shipment for disposal.

b. Observations and Findings

The inspector did not identify any radiological or other decommissioning wastes being stored onsite and awaiting shipment for disposal. The inspector confirmed that all remaining radioactive waste shipments were completed in September 2019 and there were no shipments in 2021.

No findings were identified.

c. Conclusions

The inspector confirmed that all remaining radioactive waste shipments were completed in September 2019 and there were no shipments in 2021.

3.0 Confirmatory Survey

3.1 Final Status Surveys at Permanently Shutdown Reactors (IP 83801)

a. Inspection Scope

The inspector reviewed the survey results of an excavation that spanned five survey units and conducted a confirmatory survey to assess the condition of the completed FSS units.

b. Observations and Findings

All FSSs were completed by the licensee in October 2019. During May and August 2021, the licensee conducted an excavation in the open land areas for the installation of fiber optic cable, fire line, fire system simplification, and G (Genoa)-3 stack lighting. The licensee conducted the gamma walkover scan and soil sampling in the excavated areas prior and post to the backfills including the backfilled soils for the licensed materials.

The excavation spanned five survey units: L3-012-109, L2-011-101, L2-011-103, L1-010-107, and primarily L1-010-104. The inspector reviewed the gamma walkover scan and soil sampling of the excavated areas. The inspector also performed a gamma walkover scan as a confirmatory survey in the grade soil

surfaces after the excavation had been backfilled. Based on the confirmatory survey and review of gamma walkover scan and soil sampling, the inspector determined that the radiation levels were well below action levels and sampling result indicated no licensed materials except Cs-137 from atmospheric fallout in the excavated areas. Therefore, the excavation didn't alter the FSS results from the survey units spanned by the excavation.

No findings were identified.

c. Conclusions

The inspector confirmed that the FSS units were being maintained appropriately while the NRC continues its review of the FSSRs.

4.0 Exit Meeting

The inspection results were presented to Mr. S. Zoller on December 15, 2021. The licensee did not identify any of the documents or processes reviewed by the inspector as proprietary.

ATTACHMENT: SUPPLEMENTAL INFORMATION

SUPPLEMENTAL INFORMATION
PARTIAL LIST OF PERSONS CONTACTED

J. Nowak, EnergySolutions, Reactor D&D Project Director
S. Zoller, LaCrosseSolutions, Radiation Protection Manager

INSPECTION PROCEDURES USED

IP 40801	Self-Assessment, Auditing, and Corrective Actions
IP 71801	Decommissioning Performance and Status Review
IP 83750	Occupational Radiation Exposure
IP 83801	Final Status Surveys at Permanently Shutdown Reactors
IP 84750	Effluent and Environmental Monitoring
IP 86750	Transportation of Radioactive Materials

ITEMS OPENED, CLOSED, AND DISCUSSED

Opened	None
Closed	None
Discussed	None

DOCUMENTS REVIEWED

Licensee documents reviewed and utilized during the course of this inspection are specifically identified in the "Report Details"

INITIALISMS AND ACRONYMS

ADAMS	Agencywide Documents Access and Management System
CFR	Code of Federal Regulations
DNMS	Division of Nuclear Materials Safety
FSS	Final Status Survey
FSSR	Final Status Survey Reports
LACBWR	La Crosse Boiling Water Reactor
NRC	U. S. Nuclear Regulatory Commission