



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

December 27, 2022

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

SUBJECT: LA CROSSE BOILING WATER REACTOR – NRC INSPECTION REPORT  
NO. 05000409/2022001(DRSS)

Dear Mr. Sauger:

On December 8, 2022, 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 8, 2022.

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 problem identification and resolution; decommissioning performance and status review; occupational radiation exposure; radioactive waste treatment, and effluent and environmental monitoring; waste management and transportation; and final status surveys. 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.

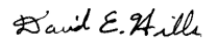
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J. Sauger

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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 12/27/22

David E. Hills, Chief  
Decommissioning, Reactor, and Independent  
Spent Fuel Storage Installation  
Health Physics Branch  
Division of Radiological Safety and Security

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

Enclosure:  
IR No. 05000409/2022001(DRSS)

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Letter to John Sauger from David Hills dated December 27, 2022.

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NO. 05000409/2022001(DRSS)

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**U.S. NUCLEAR REGULATORY COMMISSION  
REGION III**

Docket No.: 05000409

License No.: DPR-45

Report No.: 050-00409/2022001(DRSS)

Enterprise Identifier: I-2022-001-0134

Licensee: LaCrosseSolutions, LLC

Facility: La Crosse Boiling Water Reactor

Location: Genoa, Wisconsin

Dates: December 8, 2022

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

Approved By: David E. Hills, Chief  
Decommissioning, Reactor, and Independent  
Spent Fuel Storage Installation  
Health Physics Branch  
Division of Radiological Safety and Security

## **EXECUTIVE SUMMARY**

### **La Crosse Boiling Water Reactor NRC Inspection Report No. 05000409/2022001(DRSS)**

The La Crosse Boiling Water Reactor (LACBWR) is a permanently shut down and defueled power reactor facility that was maintained in a safe storage condition from 1987 through 2012. Active decommissioning began in 2016. Active decommissioning activities are complete, and the site is currently being reviewed for partial site release. This periodic inspection covered aspects of problem identification and resolution; decommissioning performance and status review; occupational radiation exposure; radioactive waste treatment, and effluent and environmental monitoring; waste management and transportation; and final status surveys.

#### **Problem Identification and Resolution**

- The inspector confirmed that since no decommissioning activity occurred at the decommissioned facility, there was no need for correction action in 2022.

#### **Decommissioning Performance and Status Review**

- The inspector determined that the licensee was adequately controlling licensed areas while the NRC's review of Final Status Survey Reports (FSSRs) is ongoing.

#### **Occupational Radiation Exposure**

- The inspector confirmed that no radiological work remained at the decommissioned site in 2022.

#### **Radioactive Waste Treatment, and Effluent and Environmental Monitoring**

- The inspector confirmed that since no effluent release occurred at the decommissioned site, no environmental monitoring was conducted in 2022.

#### **Solid Radioactive Waste Management and Transportation of Radioactive Materials**

- The inspector confirmed that all remaining radioactive waste shipments were completed in September 2019 and there were no shipments in 2022.

#### **Final Status Surveys**

- The inspector confirmed that the final status survey (FSS) units were being maintained appropriately while the U.S. Nuclear Regulatory Commission (NRC) continues its review of the final status survey reports.

## **Report Details<sup>1</sup>**

### **Summary of Plant Activities**

During the inspection period, the licensee maintained the decommissioning site in its planned final state of decommissioning while the NRC continues its review of the licensee's final status survey reports (FSSRs).

#### **1.0 Problem Identification and Resolution at Permanently Shutdown Reactors (IP 40801)**

##### **1.1 Inspection Scope**

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

##### **1.2 Observations and Findings**

As of October 2019, the site had completed field decommissioning work. The inspector confirmed that there was no need for correction action in 2022.

No findings were identified.

##### **1.3 Conclusions**

The inspector confirmed that since no decommissioning activity occurred at the decommissioned facility, there was no need for correction action in 2022.

#### **2.0 Decommissioning Performance and Status Review (IP 71801)**

##### **2.1 Inspection Scope**

The inspector conducted a site tour on December 8, 2022, 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.

##### **2.2 Observations and Findings**

As of October 2019, the site had completed field decommissioning work. The inspector confirmed that no decommissioning work occurred in 2022. Licensed areas were observed to be adequately controlled while the NRC's review of FSSRs is ongoing.

No findings were identified.

##### **2.3 Conclusions**

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

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

### **3.0 Occupational Radiation Exposure at Permanently Shutdown Reactors (IP 83750)**

#### **3.1 Inspection Scope**

The inspector toured the site on December 8, 2022, to assess the condition of site and associated controls.

#### **3.2 Observations and Findings**

As of October 2019, the site had completed field decommissioning work. The inspector confirmed that no radiological work was occurring in 2022.

No findings were identified.

#### **3.3 Conclusions**

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

### **4.0 Radioactive Waste Treatment, and Effluent and Environmental Monitoring (IP 84750)**

#### **4.1 Inspection Scope**

The inspector toured the site on December 8, 2022, to assess the site with respect to radioactive waste, and effluent and environmental monitoring.

#### **4.2 Observations and Findings**

As of October 2019, the site had completed field decommissioning work. The inspector confirmed that no effluent release occurred in 2022.

No findings were identified.

#### **4.3 Conclusions**

The inspector confirmed that since no effluent release occurred at the decommissioned site, no environmental monitoring was conducted in 2022.

### **5.0 Solid Radioactive Waste Management and Transportation of Radioactive Materials (IP 86750)**

#### **5.1 Inspection Scope**

The inspector toured the site on December 8, 2022, to assess whether any radioactive material was onsite and waiting shipment for disposal.

#### **5.2 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 2022.

No findings were identified.

### 5.3 Conclusions

The inspector confirmed that all remaining radioactive waste shipments were completed in September 2019 and there were no shipments in 2022.

## 6.0 **Final Status Surveys at Permanently Shutdown Reactors (IP 83801)**

### 6.1 Inspection Scope

All final status surveys (FSS) were completed by the licensee in October 2019. The inspector toured the site on December 8, 2022, to confirm all the LACBWR FSS units were being maintained appropriately during the demolition activities for the adjacent Genoa-3 (G-3) coal power plant.

### 6.2 Observations and Findings

During the inspection, the G-3 coal plant was conducting the demolition of facilities. Ancillary buildings for G-3 such as the Baghouse was in active demolition. The vast amount of demolition activities onsite were within the non-impacted area. Since May 24, 2022, the NRC had released the Class 2 and Class 3 areas for unrestricted uses. The licensee had constructed a fence around the Class 1 areas to prevent uncontrolled access prior to the G-3 decommissioning activities. The inspector determined that the licensee had performed adequate access control in the Class 1 areas during the G-3 demolition activities.

No findings were identified.

### 6.3 Conclusions

The inspector confirmed that the FSS units were being maintained appropriately while the NRC continues its review of the FSSRs of Class 1 areas.

## 7.0 **Exit Meeting**

The inspection results were presented to Mr. S. Zoller on December 8, 2022. 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."

### **LIST OF ACRONYMS USED**

CFR	<i>Code of Federal Regulations</i>
DRSS	Division of Radiological Safety and Security
FSS	Final Status Survey
FSSR	Final Status Survey Reports
G-3	Genoa-3
LACBWR	La Crosse Boiling Water Reactor
NRC	U.S. Nuclear Regulatory Commission