



**UNITED STATES
NUCLEAR REGULATORY COMMISSION**

REGION II
245 PEACHTREE CENTER AVENUE N.E., SUITE 1200
ATLANTA, GEORGIA 30303-1200

September 12, 2022

Mr. Tom Ray
Site Vice President
Duke Energy Carolinas, LLC
McGuire Nuclear Station
12700 Hagers Ferry Road
Huntersville, NC 28078-8985

SUBJECT: MCGUIRE NUCLEAR STATION– OPERATION OF AN INDEPENDENT SPENT
FUEL STORAGE INSTALLATION REPORT 07200038/2022001

Dear Mr. Ray:

On August 11, 2022, the U.S. Nuclear Regulatory Commission (NRC) completed an inspection at the McGuire Nuclear Station and discussed the results of this inspection with 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 "Binoy B. Desai".

Signed by Desai, Binoy
on 09/12/22

Binoy B. Desai, Chief
Engineering Branch 3
Division of Reactor Safety

Docket No. 07200038

Enclosure:
As stated

cc w/ encl: Distribution via LISTSERV

SUBJECT: MCGUIRE NUCLEAR STATION– OPERATION OF AN INDEPENDENT SPENT FUEL STORAGE INSTALLATION REPORT 07200038/2022001
Dated September 12, 2022

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OFFICE	RII/DRS	RII/DRS			
NAME	P. Cooper	B. Desai			
DATE	9/9/2022	9/12/2022			

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**U.S. NUCLEAR REGULATORY COMMISSION
Inspection Report**

Docket Number: 07200038

Report Number: 07200038/2022001

Enterprise Identifier: I-2022-001-0040

Licensee: Duke Energy Carolinas, LLC

Facility: McGuire Nuclear Station

Location: Huntersville, North Carolina

Inspection Dates: August 8 – 11, 2022

Inspectors: P. Cooper, Senior Reactor Inspector

Approved By: Binoy B. Desai, Chief
Engineering Branch 3
Division of Reactor Safety

Enclosure

SUMMARY

The U.S. Nuclear Regulatory Commission (NRC) continued monitoring the licensee's performance by conducting inspections of activities related to the McGuire Nuclear Station operational activities of dry cask storage of spent fuel from August 8 – 11, 2022. The NRC's program for overseeing the safe operation of dry storage of spent fuel at an Independent Spent Fuel Storage Installations (ISFSI) is described in Inspection Manual Chapter 2690, "Inspection Program for Dry Storage of Spent Reactor Fuel at Independent Spent Fuel Storage Installations and for 10 CFR Part 71 Transportation Packagings."

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) 2690, "Inspection Program for Storage of Spent Reactor Fuel and Reactor-Related Greater-than-Class C Waste at Independent Spent Fuel Storage Installations (ISFSI) and for 10 CFR Part 71 Transportation Packaging's."

60855 – OPERATION OF AN INDEPENDENT SPENT FUEL STORAGE INSTALLATION

Operation of an Independent Spent Fuel Storage Installation (1 Sample)

From August 8 -11, 2022, the inspectors performed a review of the licensee's ISFSI activities to verify compliance with regulatory requirements. During the on-site inspection, the inspectors observed and reviewed licensee activities in each of the five safety focus areas including occupational exposure, public exposure, fuel damage, confinement, and impact to plant operations.

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. Additionally, the inspectors performed independent walkdowns of the heavy load lifting equipment and the ISFSI haul path. The inspector also performed an independent radiation survey of the ISFSI pad.

INSPECTION RESULTS

No findings were identified.

EXIT MEETINGS AND DEBRIEFS

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

On August 11, 2022, the inspectors presented the integrated inspection results to Brent Bare, McGuire Plant Manager and other members of the licensee staff.