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U. S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

ATTENTION: Document Control Desk

Duke Energy Carolinas, LLC (Duke)
McGuire Nuclear Station, Units 1 and 2
Docket Nos. 72-38, 50-369, 370

SUBJECT: Independent Spent Fuel Storage Installation (ISFSI) Dry Run

REFERENCE: NRC letter dated January 21, 2005, "McGuire Nuclear Station - Independent Spent Fuel Storage Installation (ISFSI) Dry Run NRC Inspection Report 07200038/2004003, 05000369/2004009, and 05000370/2004009" (ADAMS Accession No. ML050250227)

The McGuire Nuclear Station (MNS) will be conducting a "dry run" training exercise prior to first use of the MAGNASTOR® cask design for spent fuel storage at the MNS ISFSI. The dry run exercise is a requirement of Appendix A Section 5.8, "Pre-operational Testing and Training Exercises," Amendment No. 0, of Certificate of Compliance (CoC) No. 1031, issued to NAC International Inc. for the MAGNASTOR® system. Section 5.8 reads as follows:

> *A dry run training exercise on loading, closure, handling, unloading, and transfer of the MAGNASTOR system shall be conducted by the licensee prior to the first use of the system to load spent fuel assemblies. The training exercise shall not be conducted with spent fuel in the TSC. The dry run may be performed in an alternate step sequence from the actual procedures, but all steps must be performed. The dry run shall include, but is not limited to, the following:*
>
> *a. Moving the CONCRETE CASK into its designated loading area*
> *b. Moving the TRANSFER CASK containing the empty TSC into the spent fuel pool*
> *c. Loading one or more dummy fuel assemblies into the TSC, including independent verification*
> *d. Selection and verification of fuel assemblies to ensure conformance with appropriate loading configuration requirements*
> *e. Installing the closure lid*
> *f. Removal of the TRANSFER CASK from the spent fuel pool*

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g. Closing and sealing of the TSC to demonstrate pressure testing, vacuum drying, helium backfilling, welding, weld inspection and documentation, and leak testing
h. TRANSFER CASK movement through the designated load path
i. TRANSFER CASK installation on the CONCRETE CASK
j. Transfer of the TSC to the CONCRETE CASK
k. CONCRETE CASK lid assembly installation
l. Transport of the CONCRETE CASK to the ISFSI
m. TSC removal from the CONCRETE CASK
n. TSC unloading, including reflooding and weld removal or cutting

Appropriate mockup fixtures may be used to demonstrate and/or to qualify procedures, processes or personnel in welding, weld inspection, vacuum drying, helium backfilling, leak testing and weld removal or cutting.

The current schedule for the dry run activities is as follows:

Welding-Related Activities:	July 12-15, 2010
Other Activities:	August 9-12, 2010

The current schedule for loading the first cask is August 23, 2010.

Note that the NAC-UMS® cask design (CoC No. 1015) is currently utilized for the MNS ISFSI. For the welding activities for the Magnastor dry run, Duke will be using the same machine and the same general processes as used in the dry run for the NAC-UMS cask design, which was observed by the NRC in June 2004 (see referenced letter).

This submittal document contains no regulatory commitments.

If there are any questions or if additional information is needed, please contact Mr. M. K Leisure at (980)875-5171.

Sincerely,

for

Regis T. Repko

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