



Tennessee Valley Authority, Post Office Box 2000, Decatur, Alabama 35609-2000

May 21, 2015

10 CFR 72.44(d)(3)
10 CFR 72.4

ATTN: Document Control Desk
Director, Division of Spent Fuel Storage and Transportation
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555-0001

Browns Ferry Nuclear Plant, Units 1, 2, and 3
Renewed Facility Operating License Nos. DPR-33, DPR-52, and DPR-68
NRC Docket Nos. 50-259, 50-260, 50-296, and 72-052

Subject: **Independent Spent Fuel Storage Installation Annual Radioactive Effluent Release Report**

The Browns Ferry Nuclear Plant (BFN) Independent Spent Fuel Storage Installation (ISFSI) complies with the Certificate of Compliance (CoC) for spent fuel storage casks in accordance with Title 10 of the Code of Federal Regulations (10 CFR) Part 72, Section 212, "Conditions of general license issued under § 72.210." Appendix A, Section 5.4, of the CoC requires the submittal of an Annual Radioactive Effluent Release Report (ARERR) in accordance with 10 CFR Part 72.44(d)(3). In accordance with 10 CFR 72.44(d)(3), the ISFSI ARERR must be submitted within 60 days after the end of the 12-month monitoring period.

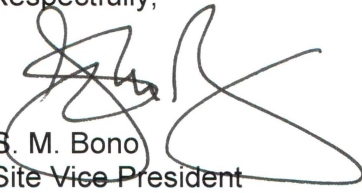
The enclosed BFN ISFSI ARERR is for January 1, 2015, through March 31, 2015. This short period ISFSI ARERR is being submitted so the 10 CFR 72.44(d)(3) due date for future ISFSI ARERRs will align with the due date for the BFN 10 CFR 50.36a ARERR that is due prior to May 1 of each calendar year.

TVA utilizes the Holtec International HI-STORM 100 Cask System for storage of spent fuel in the BFN ISFSI. The HI-STORM 100 Cask System does not create any radioactive material or have any radioactive waste treatment system. Therefore, specific operating procedures for the control of radioactive effluents are not required. The HI-STORM 100 Cask System is also designed and fabricated with a totally seal-welded pressure vessel such that leakage from the confinement boundary is not considered to be a credible occurrence. Thus, there were no radionuclides released to the environment in liquid or gaseous effluents from the BFN ISFSI during the reporting period of January 1, 2015, to March 31, 2015.

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There are no new regulatory commitments contained in this letter. Should you have any questions concerning this submittal, please contact J. L. Paul, Nuclear Site Licensing Manager, at (256) 729-2636.

Respectfully,



S. M. Bono
Site Vice President

Enclosure: Browns Ferry Nuclear Plant Independent Spent Fuel Storage Installation
Annual Radioactive Effluent Release Report

cc (w/ Enclosure):

NRC Regional Administrator - Region II
Senior Resident Inspector - Browns Ferry Nuclear Plant

ENCLOSURE

**Browns Ferry Nuclear Plant
Units 1, 2 and 3**

**Independent Spent Fuel Storage Installation
Annual Radioactive Effluent Release Report**

See Enclosed

ENCLOSURE

Browns Ferry Nuclear Plant Independent Spent Fuel Storage Installation Annual Radioactive Effluent Release Report

January 1, 2015, through March 31, 2015

Independent Spent Fuel Storage Installation:

45 Total Casks

The Browns Ferry Nuclear Plant (BFN) Independent Spent Fuel Storage Installation (ISFSI) is located within the BFN Protected Area and is designed to hold 92 (and four spare) Holtec International HI-STORM 100 storage casks. The BFN ISFSI contains 45 storage casks as of the end of the March 31, 2015, reporting period.

Airborne Effluent Releases from the ISFSI:

0.00E+00 Curies

There were no airborne effluent releases from the BFN ISFSI during the period January 1, 2015, to March 31, 2015.

Liquid Effluent Releases from the ISFSI:

0.00E+00 Curies

There were no liquid effluent releases from the BFN ISFSI during the period January 1, 2015, to March 31, 2015.

Dose to Individuals Due to ISFSI Effluent Releases:

0.00E+00 mrem