



Tennessee Valley Authority, 1101 Market Street, Chattanooga, Tennessee 37402

September 19, 2012

10 CFR 72.4
10 CFR 72.212

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
Facility Operating License Nos. DPR-33, DPR-52, and DPR-68
NRC Docket Nos. 50-259, 50-260, 50-296, and 72-052

Subject: Registration of Use of Cask to Store Spent Fuel

In accordance with Title 10 *Code of Federal Regulations* (10 CFR) Part 72.212, "Conditions of General License Issued Under §72.210," paragraph (b)(2), the Tennessee Valley Authority (TVA) is submitting the registration, for the use of two spent fuel storage casks under the general license to store spent fuel at the Browns Ferry Nuclear Plant (BFN) Independent Spent Fuel Storage Installation. The initial use of the first cask listed below to store spent fuel occurred on August 20, 2012. This registration is required to be submitted within 30 days of initial use. Accordingly, this submittal is due by September 19, 2012.

Pursuant to 10 CFR 72.212, paragraph (b)(2), TVA is providing the following cask loading information:

Licensee Name:	Tennessee Valley Authority
Licensee Address:	Post Office Box 2000 Decatur, Alabama 35609-2000
Reactor License Numbers:	DPR-33, DPR-52, and DPR-68
Reactor Docket Numbers:	50-259, 50-260, and 50-296

KMS501
KMS524

Responsible Individual: Thomas A. Hess
Program Manager, Corporate Nuclear Licensing,
BFN

Cask Certificate Number: 1014, Amendment 5

Cask Model Number: Holtec International, HI-STORM 100S

For the cask system placed in service on August 20, 2012:

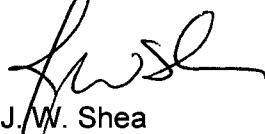
Cask Identification Numbers: Multi-Purpose Canister
Type 68, Serial No. 0248
Overpack Serial No. 0354

For the cask system placed in service on August 26, 2012:

Cask Identification Numbers: Multi-Purpose Canister
Type 68, Serial No. 0333
Overpack Serial No. 0484

There are no new regulatory commitments contained in this letter. If you have any questions, please contact T. A. Hess at (423) 751-3487.

Respectfully,



J. W. Shea
Vice President, Nuclear Licensing

cc: NRC Regional Administrator - Region II