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

CNL-16-143

August 31, 2016

10 CFR 72.4

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

Watts Bar Nuclear Plant, Units 1 and 2  
Facility Operating License Nos. NPF-90 and NPF-96  
NRC Docket Nos. 50-390, 50-391, and 72-1048

Subject: **Supplement to Response to Issuance of Order for Implementation of Additional Security Measures and Fingerprinting for Unescorted Access for Watts Bar Nuclear Plant Independent Spent Fuel Storage Installation (Order Number EA-14-044)**

- Reference:
1. Letter from NRC to TVA, "Issuance of Order for Implementation of Additional Security Measures and Fingerprinting for Unescorted Access for Watts Bar Nuclear Plant Independent Spent Fuel Storage Installation," Order Number EA-14-044, dated April 21, 2014 (ML14099A104)
  2. Letter from TVA to NRC, CNL-14-128, "Response to Issuance of Order for Implementation of Additional Security Measures and Fingerprinting for Unescorted Access for Watts Bar Nuclear Plant Independent Spent Fuel Storage Installation (Order Number EA-14-044)," dated August 5, 2014 (ML14217A545)

By letter dated April 21, 2014 (Reference 1), the Nuclear Regulatory Commission issued Order Number EA-14-044 modifying the general license for the proposed independent spent fuel storage installation (ISFSI) at Watts Bar Nuclear Plant (WBN). The Order requires compliance with Additional Security Measures (ASMs) for Physical Protection of Dry Independent Spent Fuel Storage Installations and ASMs for Access Authorization and Fingerprinting at Independent Spent Fuel Storage Installations.

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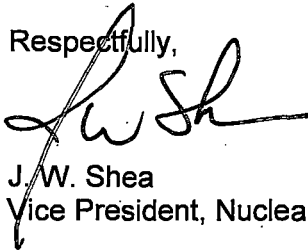
Tennessee Valley Authority (TVA) has completed the security modifications and supporting analysis to demonstrate compliance with the ASMs for ISFSIs located within the site protected area boundary, as described in Reference 2. The design basis threat analysis that demonstrates TVA's compliance is provided in Enclosure 1. Enclosure 2 provides Revision 8 of WBN-SSI-13.2, "WBN Law Enforcement Plan" that includes ISFSI.

Enclosure 1 to this letter contains Safeguards Information and should be protected in accordance with 10 CFR 73.21 and 10 CFR 73.22. The enclosed information is being sent by certified mail and the signed receipt will signify that the Nuclear Regulatory Commission has received this information.

There are no regulatory commitments associated with this submittal. If you have any questions regarding this information, please contact Tom Hess at (423) 751-3487.

I declare under penalty of perjury that the foregoing is true and correct. Executed on the 31st day of August 2016.

Respectfully,



J. W. Shea  
Vice President, Nuclear Licensing

Enclosures: 1. Effects of Design Basis Threat Explosion on the WBN ISFSI  
2. WBN-SSI-13.2, "WBN Law Enforcement Plan"

cc: (w/o Enclosures):

NRC Regional Administrator - Region II  
NRR Director - NRC Headquarters  
NRO Director - NRC Headquarters  
NRC Regional Administrator - Region II  
NRR Project Manager - Watts Bar Nuclear Plant  
NRC Senior Resident Inspector - Watts Bar Nuclear Plant  
NRC Director - Office of Nuclear Material Safety and Safeguards  
Douglas Garner - Office of Nuclear Security and Incident Response (NSIR)

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**ENCLOSURE 1**

**Supplement to Response to Issuance of Order for Implementation of Additional Security  
Measures and Fingerprinting for Unescorted Access for Watts Bar Nuclear Plant  
Independent Spent Fuel Storage Installation (Order Number EA-14-044)**

**Effects of Design Basis Threat Explosion on the WBN ISFSI**

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