



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

CNL-16-186

December 2, 2016

10 CFR 2.101

10 CFR 52.15

ATTN: Document Control Desk  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555-0001

Clinch River Nuclear Site  
NRC Project No. 785

Subject: Submittal of Supplemental Information Regarding Meteorology in Support of Early Site Permit Application for Clinch River Nuclear Site

- References:
1. Letter from TVA to NRC, CNL-16-081, "Application for Early Site Permit for Clinch River Nuclear Site," dated May 12, 2016
  2. Letter from TVA to NRC, CNL-16-097, "Submittal of Meteorological Data in Support of Early Site Permit Application for Clinch River Nuclear Site," dated June 10, 2016
  3. Letter from TVA to NRC, CNL-16-125, "Submittal of Atmospheric Dispersion Calculation Input and Output Files in Support of Early Site Permit Application for Clinch River Nuclear Site," dated July 28, 2016
  4. Letter from TVA to NRC, CNL-16-134, "Schedule for Submittal of Supplemental Information in Support of Early Site Permit Application for Clinch River Nuclear Site," dated August 11, 2016

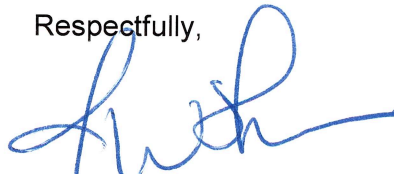
By letter dated May 12, 2016 (Reference 1), Tennessee Valley Authority (TVA) submitted an application for an early site permit for the Clinch River Nuclear (CRN) Site in Oak Ridge, TN. By letter dated June 10, 2016 (Reference 2), TVA provided 24 months of meteorological data. By letter dated July 28, 2016 (Reference 3), TVA provided atmospheric dispersion calculation input and output files. In addition, and consistent with interactions with NRC staff, TVA identified certain aspects of the application that it intends to supplement. By letter dated August 11, 2016 (Reference 4), TVA provided a plan for submitting the identified supplemental information.

The enclosure to this letter contains a discussion of the supplemental information related to the meteorology of the CRN Site, as identified in Reference 4.

There are no new regulatory commitments associated with this submittal. If any additional information is needed, please contact Dan Stout at (423) 751-7642.

I declare under penalty of perjury that the foregoing is true and correct. Executed on this 2nd day of December 2016.

Respectfully,



J. W. Shea  
Vice President, Nuclear Licensing

Enclosure:

Supplemental Information Regarding Meteorology at the Clinch River Nuclear Site

cc (with enclosures):

A. Fetter, Project Manager, Division of New Reactor Licensing, USNRC

cc (without enclosures):

V. McCree, Executive Director of Operations, USNRC  
C. Haney, Regional Administrator, Region II, USNRC  
M. Johnson, Deputy Executive Director for Reactor and Preparedness Programs,  
USNRC  
V. Ordaz, Acting Director, Office of New Reactors, USNRC  
F. Akstulewicz, Director, Division of New Reactor Licensing, USNRC  
J. Donohue, Branch Chief, Division of New Reactor Licensing, USNRC  
P. Vokoun, Project Manager, Division of New Reactor Licensing, USNRC  
T. Dozier, Project Manager, Division of New Reactor Licensing, USNRC  
T. Beville, SMR Licensing Technical Support Program, DOE  
M. Shields, SMR Licensing Technical Support Program, DOE  
M. M. McIntosh, Regulatory Specialist, Eastern Regulatory Field Office, Nashville  
District, USACE

## ENCLOSURE

### Supplemental Information Regarding Meteorology at the Clinch River Nuclear Site

By letter dated May 12, 2016 (Reference 1), Tennessee Valley Authority (TVA) submitted an application for an early site permit for the Clinch River Nuclear (CRN) Site in Oak Ridge, TN. By letter dated June 10, 2016 (Reference 2), TVA provided 24 months of meteorological data. By letter dated July 28, 2016 (Reference 3), TVA provided atmospheric dispersion calculation input and output files. In addition, and consistent with interactions with NRC staff, TVA identified certain aspects of the application that it intends to supplement. By letter dated August 11, 2016 (Reference 4), TVA provided a plan for submitting the identified supplemental information.

In addition to the information provided above, this enclosure provides a discussion of the supplemental information related to the meteorology of the CRN Site, as identified in Reference 4.

#### Supplement Item (from Reference 4)

*TVA will provide a description of the assumptions that were made in the XOQDOQ and CALPUFF analyses.*

#### Supplemental Information

Subsequent to TVA providing the plan to the NRC staff for submitting a description of the assumptions made in the XOQDOQ and CALPUFF analyses (Reference 4), TVA verified that the key assumptions made in the XOQDOQ and CALPUFF analyses are included in CRN Site Early Site Permit Application (ESPA), Part 2, Site Safety Analysis Report (SSAR) Subsections 2.3.4.2, 2.3.5.2, and 2.3.5.4. In addition, TVA verified that the key assumptions made in the PAVAN analysis are included in SSAR Subsections 2.3.4.2 and 2.3.5.4. Therefore, no changes to the ESPA are required with regard to describing the key assumptions made in these analyses.

#### References:

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