



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

PR050785

CNL-16-157

September 30, 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 Groundwater Calculation Input and Output Files 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-16-134, "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 Site in Oak Ridge, TN. Subsequent to the submittal of the application, 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 2), TVA provided a plan for submitting the identified supplemental information.

This letter provides supplemental information related to aquifer parameter evaluation and groundwater flow system characterization. The enclosed disk provides input and output files associated with the calculations used to develop the groundwater model.

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

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I declare under penalty of perjury that the foregoing is true and correct. Executed on this 30th day of September 2016.

Respectfully,



J. W. Shea  
Vice President, Nuclear Licensing

Enclosure:

CD-ROM: Groundwater Calculation Input and Output Files (1 copy)

cc (Enclosure):

Project Manager, Division of New Reactor Licensing (1 copy)

cc (without enclosure):

Executive Director of Operations  
Regional Administrator, Region II  
Deputy Executive Director for Reactor and Preparedness Programs  
Director, Office of New Reactors  
Director, Division of New Reactor Licensing  
Branch Chief, Division of New Reactor Licensing  
Project Manager, Division of New Reactor Licensing  
Project Manager, Division of New Reactor Licensing  
Acting Assistant Secretary, Office of Nuclear Energy, Department of Energy  
Deputy Assistant Secretary, Nuclear Reactor Technologies, Department of Energy  
Light Water Reactor Technologies, Department of Energy  
Program Manager, Licensing Technical Support Program, Department of Energy  
Project Manager, Licensing Technical Support Program, Department of Energy  
Regulatory Specialist, Eastern Regulatory Field Office, Nashville District,  
U.S. Army Corps of Engineers