



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

CNL-18-015

January 25, 2018

10 CFR 52, Subpart A

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

Clinch River Nuclear Site  
NRC Docket No. 52-047

Subject: Submittal of Revised Site Safety Analysis Report Figure 2.5.1-34 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-16-162, "Submittal of Supplemental Information Related to Geologic Characterization Information, Surface Deformation, and Stability of Subsurface Materials and Foundation in Support of Early Site Permit Application for Clinch River Nuclear Site," dated October 21, 2016

By letter dated May 12, 2016 (Reference 1), Tennessee Valley Authority (TVA) submitted an application for an early site permit (ESP) for the Clinch River Nuclear (CRN) Site in Oak Ridge, TN. By letter dated October 21, 2016 (Reference 2), TVA submitted supplemental information related to geologic characterization information in support of the CRN ESP application. Included in the supplemental information was a revised Site Safety Analysis Report (SSAR) Figure 2.5.1-34.

During a January 17, 2018 telephone call, the Nuclear Regulatory Commission (NRC) requested clarification on the revised Figure 2.5.1-34 submitted in Reference 2 regarding a shaded area located between the Knox Group and Chickamauga Group in the lower left quadrant of the figure. This shaded area was not indicated on the original Figure 2.5.1-34 submitted in Reference 1. Following review and comparison of the original and revised figures, it was determined the shaded area in the revised figure was unintentionally applied.

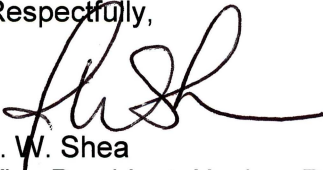
The purpose of this letter is to provide a corrected Figure 2.5.1-34 removing the shaded area in question. The corrected figure is provided in the enclosure to this letter. The corrected figure will be incorporated in a future revision of the ESP application.

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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 25th day of January 2018.

Respectfully,



J. W. Shea  
Vice President, Nuclear Regulatory Affairs and Support Services

Enclosure

Clinch River Nuclear Site Safety Analysis Report Revised Figure 2.5.1-34

cc (Enclosure):

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

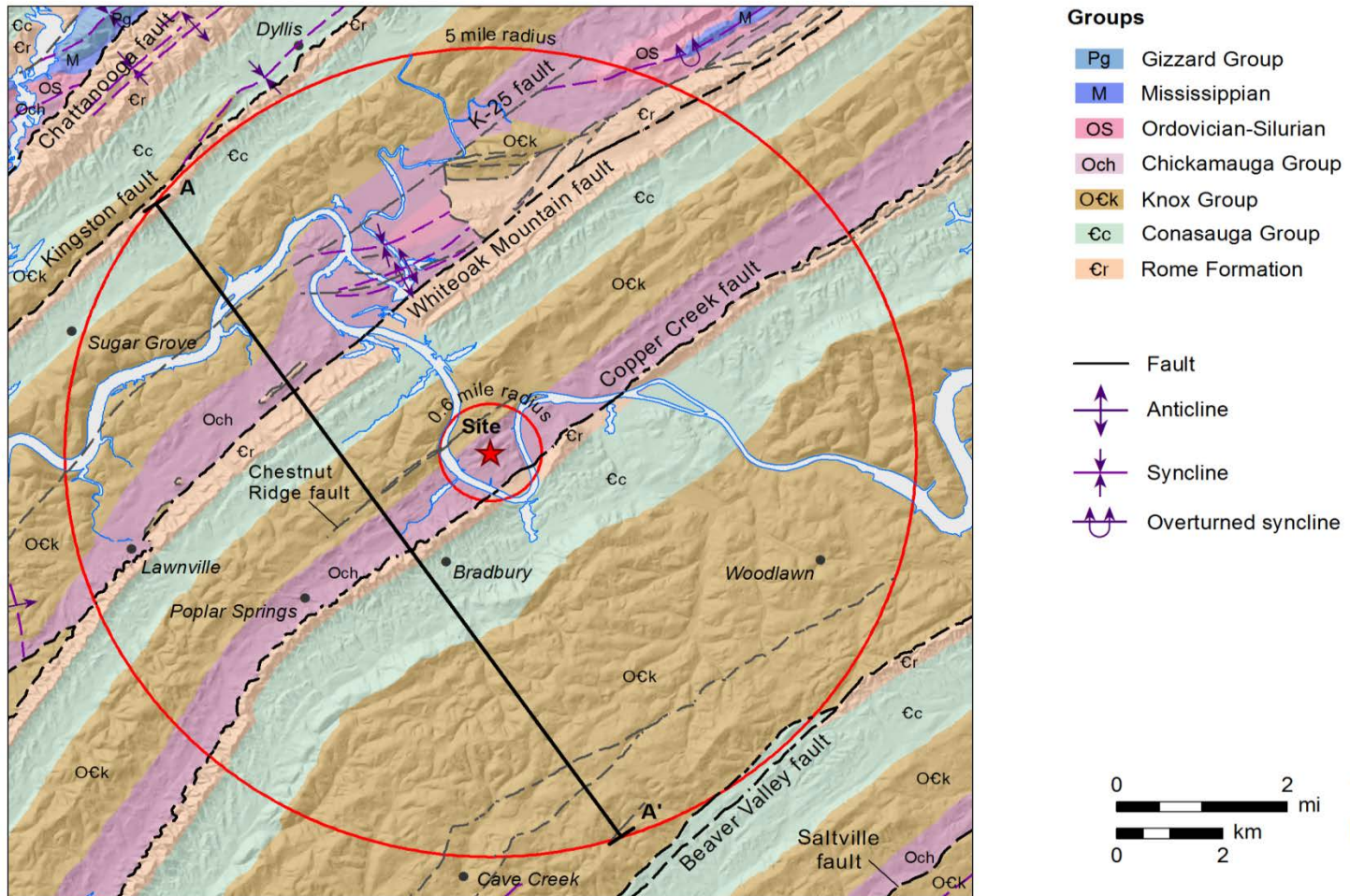
cc (without enclosure):

C. Haney, Regional Administrator, Region II, USNRC  
F. Akstulewicz, Director, Division of New Reactor Licensing, USNRC  
J. Colaccino, Branch Chief, Division of New Reactor Licensing, USNRC  
M. Sutton, Project Manager, Division of New Reactor Licensing, USNRC  
P. Vokoun, Project Manager, Division of New Reactor Licensing, USNRC  
M. M. McIntosh, Regulatory Specialist, Eastern Regulatory Field Office, Nashville  
District, USACE

**ENCLOSURE**

**CLINCH RIVER NUCLEAR  
SITE SAFETY ANALYSIS REPORT REVISED FIGURE 2.5.1-34**

SSAR Figure 2.5.1-34 is being revised and will be replaced with the following figure.



Notes:  
 Simplified geologic map of the Clinch River Nuclear site area developed by Lettis Consultants International, Inc.  
 See Site Area Geologic Cross Section A-A' (Figure 2.5.1-35).  
 See Plate 2 in Part 8 for more detailed geologic map of the site area.

**Figure 2.5.1-34. Site Area Geologic Map**