

ClinchRiverESPHFNPEm Resource

From: Fetter, Allen
Sent: Tuesday, November 21, 2017 12:00 PM
To: Schiele, Raymond Joseph
Subject: Draft Agenda: CRNS Site Visit Jan_2018.docx
Attachments: CRNS Site Visit Jan_2018.docx

Ray,

The attached draft agenda for the late-January site visit is almost final. Please take a look and let me know of any changes that might be merited.

Thanks,
Allen

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**NRC Management Visit to TVA Knoxville Office Complex and
Clinch River Nuclear Site, Oak Ridge, Tennessee**

APPLICANT: Tennessee Valley Authority (TVA)

DATES: January 30 – January 31, 2018

LOCATIONS: TVA Knoxville Office Complex
400 West Summit Hill Drive
Knoxville, Tennessee 37902

Clinch River Nuclear Site
Oak Ridge, Tennessee

NRC Participants: Vonna Ordaz, Office Director (NRO)
Robert Taylor, Director (NRO/DSEA)
Anna Bradford, Deputy Director (NRO/DNRL)
Joseph Collacino, Branch Chief (NRO/DNRL/LB3)
Michael Dudek, Branch Chief (NRO/DSEA/RGS)
Gerry Stirewalt, Geologist (NRO/DSEA/RGS)
Laurel Bauer, Geologist (NRO/DSEA/RGS)
Olivier Lareynie, NRO Foreign Assignee (NRO/DSEA/RGS)

PROJECT MANAGER: Allen Fetter (NRO/DNRL/LB3)

BACKGROUND

Tennessee Valley Authority (TVA) submitted an Early Site Permit (ESP) application for Clinch River Nuclear Site (CRNS) to the U.S. Nuclear Regulatory Commission (NRC) on May 12, 2016. The NRC staff accepted the application for docketing and detailed technical review on December 30, 2016. NRC issued a schedule letter to TVA on March 17, 2017 and the major public milestones for the review are listed in the table below.

Safety Review	
Phase A – Preliminary Safety Evaluation Report (PSER) and Requests for Additional Information (RAIs) Issued	08/04/2017
Phase B – Advanced Safety Evaluation (SE) with No Open Items Developed	10/20/2018
Phase C – ACRS Review and Meetings on Advanced SE	03/26/2019
Phase D – Final Safety Evaluation Report Issued	08/17/2019

Environmental Review	
Phase 1 – Scoping Summary Report Issued	11/02/2017
Phase 2 – Draft Environmental Impact Statement (EIS) Issued	06/01/2018
Phase 3 – Responses to DEIS Public Comments Completed	01/20/2019
Phase 4 – Final EIS Issued	06/21/2019

In conjunction with the information session, which will take place at the TVA Knoxville Office, most members of the NRC staff will visit the CRN Site and surrounding area in an effort to become familiar with the site layout, the surrounding geologic and tectonic features, as well as physiography.

ACTIVITIES AND SCHEDULE

TVA will provide an overview of the Clinch River ESP application to NRC management and staff at its Knoxville Office Complex prior to visiting the CRN Site. Activities will take place over a period of two business days, January 30 and January 31, 2018.

An agenda for the trip is presented in Attachment A and Attachment B outlines site locations and geologic and tectonic features to be visited the afternoon of January 30 and the morning of January 31, 2018.

Agenda: January 30 – January 31, 2018
TVA Knoxville Office, Knoxville, Tennessee
TVA Clinch River Nuclear Site (CRNS), Oak Ridge, Tennessee

Tuesday, January 30, 2018, MORNING SESSION (TVA Knoxville Office):

- 08:30-08:45** Welcome and Introductions [NRC/TVA]
- 08:45-09:30** Overview Presentation of Clinch River ESPA [TVA]
- 09:45-10:00** Tour of TVA's River Forecast Center [NRC/TVA]
- 12:00-13:00** Lunch

Tuesday, January 30, 2018, AFTERNOON SESSION (TVA CRNS)

- 13:00-16:30** Site Tour of Clinch River Nuclear Site (geologic/tectonic features)
..... [NRC/TVA]
- 16:30-16:45** Debrief Summary..... [NRC/TVA]
- 17:00** Adjourn

Wednesday, January 31, 2018, MORNING SESSION (TVA CRNS vicinity)

- 09:00-14 :00** Tour of area/vicinity geologic and tectonic features [NRC/TVA]
- 12:15-13:00** Lunch (in field, to support more time on tour)

Wednesday, January 31, 2018, AFTERNOON SESSION: (TVA CRNS)

- 14:00-16:30** Detailed examination of rock core samples..... [NRC/TVA]
- 16:30-16:45** Debrief Summary..... [NRC/TVA]
- 17:00** Adjourn

Day 1

Afternoon field trip to CRNS:

1. Presentation of site geologic map and examination of rock core sample MP101 (245-250 ft elev, and the associated borehole log, and other geophysical or seismic velocity logs, if available)
2. Visit the surface projection location of Shear Fracture Zone on site (Figure 2.5.1-65) and next to the river if that location is accessible and currently exposed as indicated in CNL-16-162, p E1-36.
3. Visit Quaternary deposits and landforms (terraces) in site area.
4. Visit 2 Sinkhole clusters on site (northern boundary) and to the SE (as indicated on fig 2.5.1-46)

Day 2

Morning field trip to visit geologic and tectonic features in the CRNS vicinity and afternoon at CRNS:

1. Visit pinnacle and cutter exposure near Copper Ridge Cave (fig 2.5.1-40), an abandoned phreatic cave within site area. Visit both the hillside exposure and the cave.
2. Visit to offsite outcrops of foundation lithology (Chickamauga Group) and thrust fault exposures
3. Visit location of [the surface projection of] Chestnut Ridge and Copper Creek faults near the site location.

Afternoon at CRNS – Detailed examination of rock core samples listed below:

1. Examples of the shear-fracture zone and other “fracture zones” and/or fractures (to distinguish the difference between these features and examine relative age relationships related to stylolites, if possible) in boreholes: 21 ft. in **MP 423** (718-697 ft. elev, runs 13,14,15,16,17,18); 18 and 6 ft in **MP 201** (644-626 ft elev, runs 27,28,29,30) and (497-491 ft elev, runs 56 & 57)); and 6 ft in **MP 101** (553-547 ft elev, runs 47, 48).