

ClinchRiverESPHFNPEM Resource

From: Dozier, Tamsen
Sent: Friday, April 14, 2017 6:07 AM
To: Fetter, Allen; Schiele, Raymond Joseph
Cc: Vokoun, Patricia; Sutton, Mallecia; ClinchRiverESPEnvNPEM Resource
Subject: RE: Draft Environmental Information Needs for Site and Technical Overview Sections
Attachments: DRAFT Info Needs STO 13Apr2017.docx

Hi, Ray,

Allen and I have discussed the attached information needs and he has approved I send these to you. Note that these cover information contained in either Chapter 1, Chapter 3, or any of the introductory or summary sections of ER/EIS. We have tagged a few of these that we may want to include particular resource specific staff, such as the alternatives sites folks, or the ecologists. We will update our detailed schedule to reflect this.

Let us know if you have any questions.

Tami

Hearing Identifier: ClinchRiver_ESP_HF_NonPublic
Email Number: 184

Mail Envelope Properties (127435d5ed9f473086864a5174a942b5)

Subject: RE: Draft Environmental Information Needs for Site and Technical Overview
Sections
Sent Date: 4/14/2017 6:06:42 AM
Received Date: 4/14/2017 6:06:44 AM
From: Dozier, Tamsen

Created By: Tamsen.Dozier@nrc.gov

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Tracking Status: None

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Tracking Status: None

Post Office: HQPWMSMRS06.nrc.gov

Files	Size	Date & Time
MESSAGE	502	4/14/2017 6:06:44 AM
DRAFT Info Needs STO 13Apr2017.docx		24146

Options

Priority: Standard

Return Notification: No

Reply Requested: No

Sensitivity: Normal

Expiration Date:

Recipients Received:

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CLINCH RIVER EARLY SITE PERMIT
SITE AND TECHNICAL OVERVIEW INFORMATION NEEDS

Info Needs #	Info Needed	SME Name	ER Section
STO-01	Provide a knowledgeable expert who can describe the site-related design parameters of the plant parameter envelope (PPE). For example, ER Table 3.1-2, Site-Related Design Parameters, includes structure heights, but not embedment or excavation depths. Table 3.1-2 does not include any values for “acreage” line items (cooling towers, operational plant, laydown areas). Provide the maximum (bounding) excavation depth relative to the site grade and the bounding acreage values for the listed items.	Cushing, Jack Kohn, Nancy P	3.1
STO-02	Provide a knowledgeable expert who can describe the plans for construction-related facilities and activities (e.g., concrete batch plants, stormwater management, laydown areas). The expert should be prepared to discuss possible locations and size(s), timeframe of use, water needs, permitting needs.	Cushing, Jack Kohn, Nancy P	3.3, 3.6, 3.9
STO-03	Provide a knowledgeable expert who can describe the railroad refurbishments that would be necessary to support the CRN project. The expert should be prepared to describe nature and extent of refurbishment activities, as well as anticipated use of rail transportation during construction and operation.	Cushing, Jack Kohn, Nancy P	3.9
STO-04	Provide a knowledgeable expert who can describe the site- preparation/construction activities, including affected areas, general durations and sequencing, and erosion- and sediment-control best management practices (BMPs). Information is needed, to the extent known, regarding the following: <ul style="list-style-type: none"> • new roads that would be constructed vs. utilization/upgrade of existing roads on the site (e.g., to intake, discharge, and laydown areas), including the locations of routes, culverts, and bridges and whether the area required is accounted for in the disturbed acreage total; • the approximate length, location, and degree of disturbance associated with the potable-water and municipal wastewater pipelines, and • excavation dewatering rates and discharge method. 	Cushing, Jack Kohn, Nancy P	3.9

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STO-05	Provide a knowledgeable expert who can describe the plant water sources and use during construction and operation. The expert should be prepared to discuss the assumptions behind the PPE (ER Table 3.1-2) and water-use diagram (ER Figure 3.3-1). Clarification is needed regarding "normal" (Table 3.1-2) or "average" (Figure 3.3-1) use rates, whether "miscellaneous raw water users" includes service water system/ultimate heat sink use (Figure 3.3-1), and the "negligible" consumptive uses (ER Section 3.3.1).	Cushing, Jack Kohn, Nancy P	3.1, 3.3
STO-06	Provide a knowledgeable expert to discuss the maps and figures in the ER. Of particular interest are those related to plant layout, offsite structures, offsite transmission lines, and the associated affected areas. Publication-quality files of selected ER figures are needed for reproduction in the environmental impact statement (EIS) (sized for 8.5 x 11 in. page, resolution at least 300 dpi, in .png or .tif format). The geographic information system (GIS) shapefiles that were used for certain analyses and/or to generate certain early site permit (ESP) application figures are also needed.	Cushing, Jack Kohn, Nancy P	Most sections
STO-07	Provide a knowledgeable expert who can describe the transmission system changes that would be necessary to support a nuclear plant on the CRN Site. The expert should be prepared to discuss the affected segments (e.g., reconcile segments listed in ER Table 3.7-1 with those shown on Figure 3.7-7) and the types of upgrade activities that are planned.	Cushing, Jack Kohn, Nancy P	3.7
STO-08	Provide a knowledgeable expert who can describe the effluent discharge system, including the holding pond (i.e., construction/lining materials and estimated evaporation rates).	Cushing, Jack Kohn, Nancy P	3.3, 3.4.2.2, 3.9
STO-09	Provide a knowledgeable expert to discuss the connection between the Clinch River Site and the Bethel Valley Substation. Section 3.7.1 states that the Clinch River project includes installation of an underground 69-kV transmission line at the Cinch River Site to the Bethel Valley Substation. Chapter 1 includes the statement "A new 69-kV underground transmission line (approximately 5 mi) <u>could</u> be constructed to connect the CRN Site switchyard via 500-kV to 69- kV transformers to the Bethel Valley Substation." The underground transmission line is critical to TVA's stated objectives.	Dozier, Tamsen Mcdowell, Bruce K	3.7.1; 1.1

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STO-10	Provide a knowledgeable expert to discuss TVA's criteria for choosing alternative sites including supplying federal mission-critical loads with reliable power from generation and transmission that is less vulnerable to supply disruption from intentional destructive acts and natural phenomena.	Dozier, Tamsen Mcdowell, Bruce K	9.3
STO-11	Provide a knowledgeable expert to discuss Table 1.2-1 and 1.2-2. These sections list authorizations required for ESP and authorizations required for preconstruction, construction, and operation. The tables list the responsible agency and the applicable regulation. Table 1.2-1 lists ESP authorizations required <i>prior</i> to NRC issuance of an ESP [<i>emphasis added</i>]. Provide a knowledgeable expert to discuss: State or local authorization need for transportation infrastructure (i.e., road, rail, and barge); Migratory Bird Act/Executive Order 13186 - Responsibility of Federal Agencies to Protect Migratory Birds; permit for sewage to Oak Ridge Public Works; emergency response plan; county permits; other authorizations prior to issuance of an ESP. Discuss the authorizations required at each stage of the project, ESP, preconstruction, construction, and operation.	Dozier, Tamsen Mcdowell, Bruce K	1.2
STO-12	Provide a knowledgeable expert to discuss the Environmental Protection Plan (EPP) submitted in December 2016. In addition, provide a knowledgeable expert to discuss controls the measures and controls to limit potential impacts during construction, particularly with regard to terrestrial, cultural, and historic resources.	Vokoun, Patricia Mcdowell, Bruce K	EPP, 4.6
STO-13	Provide a knowledgeable expert to discuss a list that separates the preconstruction and construction impacts (10 CFR 51.45(c)) and assigns to each type of impact (e.g., land use and surface water) an approximate percentage of the overall impacts and the basis for this estimation.	Dozier, Tamsen Mcdowell, Bruce K	4.0