

## ClinchRiverESPHFNPEm Resource

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**From:** Fetter, Allen  
**Sent:** Tuesday, February 21, 2017 9:14 AM  
**To:** Schiele, Raymond Joseph; pshastings (pshastings@tva.gov); Stout, Daniel Paul  
**Cc:** ClinchRiverESPEm Resource; Vokoun, Patricia; Dozier, Tamsen; Sutton, Mallecia  
**Subject:** FW: Draft Transportation info needs (Environmental Audit)  
**Attachments:** Clinch River Transportation Info Needs.docx

Good Morning,

To aid in the preparations for the Environmental Audit associated with the Clinch River ESP application review, please find attached draft information needs related to the transportation resource area.

In keeping with NRC policy goals of openness and transparency, this email and attachment will be automatically processed by the agency's document system, ADAMS. As such, any responses that include the following email address: [ClinchRiverESPEm.Resource@nrc.gov](mailto:ClinchRiverESPEm.Resource@nrc.gov) will be also automatically go into ADAMS.

Allen H. Fetter, Senior Project Manager  
U.S. Nuclear Regulatory Commission  
Office of New Reactors  
Division of New Reactor Licensing  
Licensing Branch 3  
Washington, D.C.

301-415-8556 (Office)  
301-385-5342 (Mobile)

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**From:** Vokoun, Patricia  
**Sent:** Friday, February 17, 2017 6:24 PM  
**To:** Fetter, Allen  
**Cc:** Sutton, Mallecia ; Dozier, Tamsen  
**Subject:** Transportation info needs

Hi, Allen,

The draft environmental transportation info needs are attached for early dissemination to TVA. Please forward the table to TVA.

Please let me know how I can further assist.

Thank you and have a great weekend,

Patricia Vokoun, P.E.  
Project Manager  
U.S. NRC, Office of New Reactors  
Environmental Projects Branch 1  
301-415-3470  
571.212.3554 c





**Hearing Identifier:** ClinchRiver\_ESP\_HF\_NonPublic  
**Email Number:** 116

**Mail Envelope Properties** (Allen.Fetter@nrc.gov20170221091400)

**Subject:** FW: Draft Transportation info needs (Environmental Audit)  
**Sent Date:** 2/21/2017 9:14:09 AM  
**Received Date:** 2/21/2017 9:14:00 AM  
**From:** Fetter, Allen

**Created By:** Allen.Fetter@nrc.gov

**Recipients:**

"ClinchRiverESPEnvPEm Resource" <ClinchRiverESPEnvPEm.Resource@nrc.gov>  
Tracking Status: None  
"Vokoun, Patricia" <Patricia.Vokoun@nrc.gov>  
Tracking Status: None  
"Dozier, Tamsen" <Tamsen.Dozier@nrc.gov>  
Tracking Status: None  
"Sutton, Mallecia" <Mallecia.Sutton@nrc.gov>  
Tracking Status: None  
"Schiele, Raymond Joseph" <rjschiele@tva.gov>  
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"pshastings (pshastings@tva.gov)" <pshastings@tva.gov>  
Tracking Status: None  
"Stout, Daniel Paul" <dpstout@tva.gov>  
Tracking Status: None

**Post Office:**

<b>Files</b>	<b>Size</b>	<b>Date &amp; Time</b>
MESSAGE	1362	2/21/2017 9:14:00 AM
Clinch River Transportation Info Needs.docx		21840
image001.jpg	3704	

**Options**

**Priority:** Standard  
**Return Notification:** No  
**Reply Requested:** No  
**Sensitivity:** Normal  
**Expiration Date:**  
**Recipients Received:**

**DRAFT**  
**CLINCH RIVER EARLY SITE PERMIT**  
**TRANSPORTATION INFORMATION NEEDS**

<b>INFO NEEDS #</b>	<b>INFO NEEDED</b>	<b>SME NAME</b>	<b>ER SECTION</b>
TR-1	Make available a knowledgeable expert to discuss the estimate of the heat load in a spent fuel shipping cask and to compare the result to 10 CFR 51.52 Table S-4 conditions (i.e., 250,000 Btu/hr [~73 kW]).	Maheras, Steven J	5.7.2
TR-2	Make available a knowledgeable expert to discuss the estimate of 492 shipments of unirradiated fuel listed in Table 5.7-6 of the ER.	Maheras, Steven J	5.7.2
TR-3	Make available a knowledgeable expert to discuss the estimate of 46 shipments of irradiated fuel listed in Table 5.7-7 of the ER.	Maheras, Steven J	5.7.2
TR-4	Make available a knowledgeable expert to discuss the normalization of shipments discussed in Section 3.8, and in Tables 5.7-6 and 5.7-7 of the ER.	Maheras, Steven J	5.7.2
TR-5	Make available a knowledgeable expert to discuss the respirable fractions applied in the RADTRAN computer code runs used to estimate radiological transportation accident risks.	Maheras, Steven J	7.4
TR-6	Make available a knowledgeable expert to discuss the accident, fatality, and injury rates in Table 7.4-1 of the ER.	Maheras, Steven J	7.4
TR-7	Make available a knowledgeable expert to discuss the distances and population densities used in the RADTRAN computer code runs used to estimate routine transportation impacts and transportation accident risks.	Maheras, Steven J	5.7.2 and 7.4
TR-8	Make available a knowledgeable expert to discuss the incorporation of doses at stops into calculation of routine radiation doses to the general public-onlookers and radiation doses to the general public-along the route. For example, see Section 6.2.2.1 and Figure 6-2 in the Environmental Impact Statement for an Early Site Permit (ESP) at the PSEG Site (ML15316A072).	Maheras, Steven J	5.7.2
TR-9	Make available a knowledgeable expert to discuss the references for data quoted in the Sections 5.7.2 and 7.4 of the ER.	Maheras, Steven J	5.7.2, 7.4
TR-10	Make available a knowledgeable expert to discuss the estimates of routine doses from radioactive waste shipments.	Maheras, Steven J	5.7.2
TR-11	Make available a knowledgeable expert to discuss the package dimensions used in the RADTRAN computer code runs used to estimate routine doses from unirradiated fuel and radioactive waste.	Maheras, Steven J	5.7.2
TR-12	Make available a knowledgeable expert to discuss the traffic density data used in the RADTRAN computer code runs used to estimate routine doses from unirradiated fuel and irradiated fuel.	Maheras, Steven J	5.7.2
TR-13	Make available a knowledgeable expert to discuss the amounts of construction materials that would be used to construct the four SMRs considered in the ER.	Maheras, Steven J	10.2.2.1

**DRAFT**  
**CLINCH RIVER EARLY SITE PERMIT**  
**TRANSPORTATION INFORMATION NEEDS**

<b>INFO NEEDS #</b>	<b>INFO NEEDED</b>	<b>SME NAME</b>	<b>ER SECTION</b>
TR-14	Make available a knowledgeable expert to discuss transportation routing and the routine transportation impacts and transportation accident risks for the four alternative sites.	Maheras, Steven J	5.7.2 and 7.4
TR-15	Make available a knowledgeable expert to discuss all nearby existing/proposed projects or activities that could potentially contribute to cumulative impacts of traffic and transportation if a new nuclear power plant is constructed at the Clinch River site or at the alternative sites.	Maheras, Steven J	4.7, 5.11
TR-16	Make available a knowledgeable expert to discuss the estimate of 61 shipments of radioactive waste listed in Table 5.7-7 of the ER.	Maheras, Steven J	3.8



**U.S.NRC**

United States Nuclear Regulatory Commission

*Protecting People and the Environment*