

## PMGrandGulfColpem Resource

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**From:** Tamsen Dozier  
**Sent:** Thursday, July 03, 2008 1:59 PM  
**To:** twilli2@entergy.com; Guy Cesare  
**Cc:** Stapp, Darby C; Miley, Terri B; Jessie Muir; Paul Michalak; Andrew Kugler; Richard Raione; GrandGulf Resource  
**Subject:** draft summary of follow up items from site audit  
**Attachments:** Draft Summary of Items from GG Site Audit Subject to Follow Up.doc

Tom:

During reviewer/SME discussions that took place at the site audit, there were several items identified as being subject to follow up. These items were reviewed with Gabe Salaman the last day of the audit. A completed version of a listing of those items will be included in the site audit report that will be forwarded to you in the near future. Modifications to this list may include clarification of certain items. A draft is attached.

Please note that this is a summary of those items that were discussed between the reviewers and your subject matter experts. We understand that each reviewer and subject matter expert has a more complete description of each of the items. If further clarification is needed, we can arrange appropriate conference calls to discuss with the PNNL and/or NRC reviewer of the discipline in question.

Look forward to our discussions later today.

*Tamsen Dozier*

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**Hearing Identifier:** Grand\_Gulf\_3\_COL\_Public  
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**Draft Summary of Items from the Grand Gulf Site Audit Subject to Follow Up  
July 2, 2008**

| #   | Old ID or Audit | Items Subject to Follow Up   | Discipline              |
|-----|-----------------|--|-------------------------|
|     |                 | <b>General</b>   |                         |
| G1  | Audit           | Updates on ongoing interactions with the USACE or other agencies, permits, field activities, etc. during NRC/Applicant teleconferences, including both onsite and the transmission line corridor.  |                         |
| H   |                 | <b>Hydrology</b>   |                         |
| H4a | 4               | Documentation regarding the velocity measurements including sampling procedures and instruments and QA/QC procedures. (Section 2.3.3.1.2)  | Hydrology-Surface Water |
| H4b | Audit           | Copies of the DXF files that were generated as part of the bathymetric survey. (Section 2.3.3.1.2)   | Hydrology-Surface Water |
| H4c | Audit           | Available design plans for the outfall diffuser including pipe diameter, slot width, apron dimensions and slopes. (Section 2.3.3.1.2)  | Hydrology-Surface Water |
| H7  | Audit           | Copy of the report by Stephen K. Boss titled "Bathymetry of Surface Water in Proximity to Three Proposed Nuclear Power Facilities" dated Jan 2, 2007. (Section 2.3.3.1.2)  | Hydrology-Surface Water |
| LU  |                 | <b>Land Use</b>  |                         |
| LU1 | 7               | GIS layer with routing locational detail (topographic, cadastral maps) in addition to ER Figure 2.2-201.   | Land Use                |
| LU4 | 10              | Current and projected level-of-service values for routes accessing the GG site.  | Land Use                |
| LU5 | 11              | Custom GIS layers for the following list of figures: <ul style="list-style-type: none"> <li>• ER Figure 2.1-201</li> <li>• ER Figure 2.4-2</li> <li>• ER Figure 2.4-3</li> <li>• FSAR Figure 2.1-201</li> <li>• FSAR Figure 2.1-202</li> </ul> | Land Use                |
| TL  |                 | <b>Transmission Lines</b>  |                         |

| #    | Old ID or Audit | Items Subject to Follow Up   | Discipline                  |
|------|-----------------|--|-----------------------------|
| A    |                 | Alternatives   |                             |
| A1   | 15              | Description and purpose of alternative water treatment systems for the circulating water system and the facility (service) water system. This information is missing from the ER Sect 9.4.2.   | Alternatives                |
| A3   | Audit           | ER 9.4.1: The need to address alternatives for heat dissipation in accordance with the FEIS and the Board initial decision.  | Alternatives                |
| A4   | Audit           | Update N&S information for ER Section 9.2 on status of air regulations and land use for solar.   | Alternatives                |
| RW   |                 | Radiological Waste   |                             |
| HP   |                 | Health Physics   |                             |
| HP4  | 22              | Protected area TLD data for years 2003-present, if available.  | Health Physics              |
| HP17 | Audit           | Rev 1 of NUSTART001-GCALC-024 (binder 4.5, Ref 5) and the revised N&S evaluation in the Richland reading room. This revision corrects calculation NUSTART001-GCALC-024 sections 7.2 and 7.3. Incorrect dose rate from Calculation XC-N1F16-05013 (Worker Dose) was used.   | Health Physics              |
| HP18 | Audit           | Access to the following in the Richland reading room. <ul style="list-style-type: none"> <li>XC-N1F16-05013, "Doses from the Independent Spent Fuel Storage Installation"</li> <li>NUSTART001-GCALC-027, Rev. 0, "Grand Gulf Nuclear Station COLA Routine Release Atmospheric Dispersion Calculation"</li> <li>NUSTART001-GCALC-028, Rev. 0, "ESBWR COLA Normal Gaseous Dose"</li> </ul> | Health Physics              |
| M    |                 | Meteorology & AQ   |                             |
| M1   | 35              | There is no assertion in the ER that Entergy looked for new information. Update N&S information with a statement that regulations have been searched during new & significant review for any changes re: noise and air quality.  | Meteorology and Air Quality |
| ACC  |                 | Accidents  |                             |
| ACC1 |                 | Input and output files of MELCOR Consequence Code System, V. 2 (MACCS2) simulations.<br><br>MACCS2, XOQDOQ, PAVAN, LADTAP, GASPAR. Need in ASCII, not PDF. Submit in PDF and follow up with CD copy (in ASCII).  | Accidents                   |

| #   | Old ID or Audit | Items Subject to Follow Up  | Discipline           |
|-----|-----------------|---|----------------------|
| T   |                 | Transportation  |                      |
| CR  |                 | Cultural Resources  |                      |
| CR2 | Audit           | Mississippi Department of Archives and History letter dated July 17,2007 from Jim Woodrick to Tracy C. Brown "Re: Phase I Archaeological Survey at the Grand Gulf Nuclear Station near Port Gibson, MDAH Project Log #06-144-07, Claiborne County" (System Design Information and Project Reports binder, tab 12).  | Cultural Resources   |
| NP  |                 | Need for Power  |                      |
| NP1 | 41              | Update to ER Chapter 8 that provides more context to the Need for Power discussion. <ul style="list-style-type: none"> <li>• Discuss the Certificate of Convenience and Need process (State of Mississippi), including Section 77-3-14 of the Mississippi Code including the 2 phases of the process.</li> <li>• Public Service Commission has exercised its right for hearing and a docket to be established for this process.</li> <li>• Contextual discussion of petrochemical expansion and macro-cycle long-term trends.</li> <li>• Other related topics.</li> </ul> | Need for Power       |
| BC  |                 | Benefit-Cost  |                      |
| BC2 | 43              | Supplemental information on the capital cost data in Table 10.4-203.  | Benefit-Cost Balance |
| S   |                 | Socioeconomics  |                      |
| S2  | Audit           | Update N&S information to provide correct references in the N&S documentation rationale section for Sections 2,4,5 socioeconomics subsections. For example, Section 2.8 item 41a.   | Socioeconomics       |
| S3  | Audit           | Update N&S information to provide a more detailed discussion on the rationale for the determination of significance. For example, the assertion in Section 2.8 that the ER relies on the 2000 census needs additional support.  | Socioeconomics       |
| S4  | Audit           | Update N&S information to update census, demographics, etc. references for key inputs. For example, Section 2.8 item 59, and Section 5.8 item 65 which use a 1965 reference for land assessment.  | Socioeconomics       |
| S5  | Audit           | Update N&S to reassess the level of impact based on changes between the ESP and COL, for example impacts of traffic for operations workforce, because only 1 reactor instead of 2, etc. For example, chapter 5.8 item 38.   | Socioeconomics       |
| EA  |                 | Ecology-Aquatic   |                      |

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|-----|-----------------|---|---|
| EA1 | 45              | Update of COL ER Figure 3.4-201 such that the intake screens in the figure represent the style of intake screens in COL ER Figure 3.4-202.  | Ecology-Aquatic   |
| EA2 | 46              | Documentation for the mussel survey performed on November 20, 2006 (Dec 4, 2006 letter from J. Fred Heitman, American Aquatics, Inc. to Derek Richard, Enercon).  | Ecology-Aquatic   |
| EA3 | 47              | Best Management Practices (BMPs) for addressing clearing of land at stream crossings (e.g., Big Black River) for the new transmission line ROW. For example, Specification #5: Transmission Line Chemical Herbicide Applications, updated last on 1-10-2002. In particular, address the appropriate procedures for herbicide application around water bodies and wetlands, and the maintenance of buffers around water bodies.  | Ecology-Aquatic   |
| ET  |                 | Ecology-Terrestrial   |   |
| ET1 | 49              | Memorandums that document the ecological reconnaissance visits to the Grand Gulf Nuclear Station [GGNS] site that occurred on: <ul style="list-style-type: none"> <li>• March 27-29, 2006</li> <li>• September 10-13, 2006</li> <li>• November 20, 2006</li> <li>• December 10-14, 2006</li> <li>• April 22-27, 2007</li> </ul>   | Ecology-Terrestrial   |
| ET3 | 51              | Copy of consultation letters between Entergy and Federal and State agencies. <ul style="list-style-type: none"> <li>• Mississippi Natural Heritage Program <ul style="list-style-type: none"> <li>○ Entergy: June 30, 2006 (onsite), June 6, 2007(TL)</li> <li>○ MNHP: August 11, 2006 (onsite)</li> </ul> </li> <li>• U.S. Fish and Wildlife Service <ul style="list-style-type: none"> <li>○ Entergy: June 30, 2006 (onsite), June 6, 2007 (TL)</li> <li>○ FWS: Jul 21, 2006 (onsite), Nov 5, 2007 (TL)</li> </ul> </li> <li>• National Marine Fisheries Service <ul style="list-style-type: none"> <li>○ Entergy: Jul 12, 2006 (TL)</li> </ul> </li> </ul> | Ecology-Terrestrial   |
| ET5 | 53              | Copy of the transmission line corridor maintenance practices and silvicultural best management practices (BMPs).  | Ecology-Terrestrial<br><br><i>Also see information need LU1</i> |

| #    | Old ID or Audit | Items Subject to Follow Up  | Discipline          |
|------|-----------------|---|---------------------|
| ET6  | 54              | Documentation of BMPs for construction onsite as well as for construction of the proposed new transmission line corridor, and in particular BMPs to be used where the new corridor will cross wetlands and floodplains. Provide documentation of these construction practices and impact minimization measures, particularly to wetlands and floodplains. | Ecology-Terrestrial |
| ET15 | Audit           | Copy of the following references from Binder 4.1: <ul style="list-style-type: none"> <li>• ref 6, Dec 19, 2006 email from Brian Bedford to Derek Richard</li> <li>• ref 8, RFI B&amp;R-0007</li> <li>• ref 11, RFI GENS-SR3-2006-0008</li> <li>• ref 13, RFI B&amp;R-0005</li> </ul>  | Ecology-Terrestrial |
| ET16 | Audit           | Report on the June 2007 delineation of the wetlands at the switchyards. See also ET1.   | Ecology-Terrestrial |