

October 9, 2008

APPLICANT: Entergy Operations, Inc  
FACILITY: Grand Gulf Nuclear Station, Unit 3  
SUBJECT: SUMMARY OF COMMUNICATIONS WITH ENTERGY  
OPERATIONS, INC TO DISCUSS ITEMS ASSOCIATED WITH THE  
ENVIRONMENTAL SITE AUDIT FOR THE COMBINED OPERATING  
LICENSE FOR THE GRAND GULF NUCLEAR STATION UNIT 3

On July 3, 14 and 31, 2008, the U.S. Nuclear Regulatory Commission (NRC) staff and its contractor, Pacific Northwest National Laboratory (PNNL), held three conference calls with representatives from Entergy Operations and their contractor, Enercon, to discuss items resulting from the environmental site audit conducted the week of June 16, 2008. During the site audit, the NRC team identified a number of follow up items to support the Grand Gulf Station Unit 3 combined license environmental review. The conference calls were held to discuss a timeline for the follow up information submittal and provide clarification for some of the items. Enclosure 1 is the list of participants from each of these conference calls. Enclosure 2 is the list of the supplemental information needed as identified by the various teams during the audit. The far right column is the timeline of information submittal to NRC as identified during the conference calls.

The July 14, 2008 phone call was to clarify follow up item number BC2. It was determined that this item is best addressed through the request for additional information (RAI) process. The July 31, 2008 call was to discuss the need for specific information from reports in follow up items H7, EA1, EA2, EA3, ET1 ET3, ET5, ET6, ET15 and ET16 to be on the docket. Staff from the NRC Office of General Council participated in this discussion in addition to technical and project management staff. Entergy will submit the letters outlined in ET3 by August 31, 2008. The remainder of the specific information from these items will be submitted onto the docket through the RAI process.

Docket No.: 52-024

Enclosures:  
As stated.

cc: See next page

CONTACT: Tamsen Dozier, DSER/NRO  
301-415-2272

APPLICANT: Entergy Operations, Inc  
 FACILITY: Grand Gulf Nuclear Station, Unit 3  
 SUBJECT: SUMMARY OF COMMUNICATIONS WITH ENTERGY OPERATIONS, INC TO DISCUSS ITEMS ASSOCIATED WITH THE ENVIRONMENTAL SITE AUDIT FOR THE COMBINED OPERATING LICENSE FOR THE GRAND GULF NUCLEAR STATION UNIT 3

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**OFFICIAL RECORD COPY**

List of Participants

Thursday, July 3, 2008

Tamsen Dozier, NRC  
Darby Stapp, PNNL  
Terri Miley, PNNL  
Tom Williamson, Entergy  
George Zinke, Entergy  
Tom Slavonic, Enercon  
Guy Cesare, Enercon  
Al Schneider, Enercon  
Derek Richard, Enercon

Monday, July 14, 2008

Tamsen Dozier, NRC  
Dan Mussatti, NRC  
Darby Stapp, PNNL  
Terri Miley, PNNL  
George Zinke, Entergy  
Guy Duvant, Entergy  
Tom Slavonic, Enercon

Thursday, July 31, 2008

Tamsen Dozier, NRC  
Renee Holmes, NRC  
Terri Miley, PNNL  
Amoret Bunn, PNNL  
George Zinke, Entergy  
Guy Duvant, Entergy  
Kenneth Huey, Entergy  
Guy Cesare, Entergy  
Derek Richard, Entergy  
Tom Slavonic, Enercon  
Steve Frantz, Morgan and Lewis

## Items from the Grand Gulf Site Audit Subject to Follow Up July 2008

#	IN	Items Subject to Follow Up	Discipline	Origin	Action by Entergy
		<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.		Added by Tami/Darby on Jun 20	
		<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	Amended by Lance Vail on 6/20.	Will be added to reading room on Aug 1
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	Added by Lance Vail on 6/20.	Will be sent on CD about July 25
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	Added by Lance Vail on 6/20.	A letter from Entergy by Aug 29
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	Added by Amoret Bunn on 6/19.	Will be added to reading room on Aug 1
		<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	Amended by Dave Anderson on 6/18.	Will be sent on CD about July 25
LU4	10	Current and projected level-of-service values for routes accessing the GG site.	Land Use	Amended by Dave Anderson on 6/18.	Will be added to reading room on Aug 1

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	Amended by Dave Anderson on 6/18. Expecting GIS layers for all named figures.	Will be sent on CD about July 25
TL		Transmission Lines			
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	Open per Andy Kugler on 6/18.	ER change Letter will arrive 8/29
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	Added by Andy Kugler on 6/17.	ER change Letter will arrive 8/29
A4	Audit	Update N&S information for ER Section 9.2 on status of air regulations and land use for solar.	Alternatives	Added by Andy Kugler on 6/18.	Will be added to reading room on Aug 1
RW		Radiological Waste			
HP		Health Physics			
HP4	22	Protected area TLD data for years 2003-present, if available.	Health Physics	Amended 6/18 by Greg Stoetzel.	Will be added to reading room on Aug 1
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	Added by Rick Traub on 6/17. Modified by Rick on 6/18.	Will be added to reading room on Aug 1

HP18	Audit	<p>Access to the following in the Richland reading room.</p> <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	Added by Rick & Greg on 6/18.	Will be added to reading room on Aug 1
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	Modified by Van on 6/17.	Will be added to reading room on Aug 1
ACC		Accidents			
ACC1		<p>Input and output files of MELCOR Consequence Code System, V. 2 (MACCS2) simulations.</p> <p>MACCS2, XOQDOQ, PAVAN, LADTAP, GASPAR. Need in ASCII, not PDF. Submit in PDF and follow up with CD copy (in ASCII).</p>	Accidents	Retained and expanded by Van on 6/17.	Will be sent on CD about July 25
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	Added by Darby Stapp on 6/20.	Will be added to reading room on Aug 1
NP		Need for Power			

NP1	41	<p>Update to ER Chapter 8 that provides more context to the Need for Power discussion.</p> <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	Updated by Dave Anderson 6/18.	Letter to arrive Aug 4
<b>BC</b>		<b>Benefit-Cost</b>			
BC2	43	Supplemental information on the capital cost data in Table 10.4-203.	Benefit-Cost Balance	Amended by Dan on 6/19.	Phone Conversation on 7/14; this item to be an RAI
<b>S</b>		<b>Socioeconomics</b>			
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	Added by Dan Mussatti on 6/19.	Will be added to reading room on Aug 1
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	Added by Dan Mussatti on 6/19.	Will be added to reading room on Aug 1
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	Added by Dan Mussatti on 6/19.	Will be added to reading room on Aug 1

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	Added by Dan Mussatti on 6/19.	Will be added to reading room on Aug 1
EA		<b>Ecology-Aquatic</b>			
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	Amended by Amoret Bunn on 6/19.	ER change Letter will arrive 8/29
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	Amended by Amoret Bunn on 6/19.	Will be added to reading room on Aug 1
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	Amended by Amoret Bunn on 6/19.	Will be added to reading room on Aug 1
ET		<b>Ecology-Terrestrial</b>			
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	Amended by Jim Becker on 6/19.	Will be added to reading room on Aug 1



ET3	51	<p>Copy of consultation letters between Entergy and Federal and State agencies.</p> <ul style="list-style-type: none"> <li>• Mississippi Natural Heritage Program <ul style="list-style-type: none"> <li>○ Entergy: June 30, 2006 (onsite), June 20, 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 20, 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 (onsite)</li> </ul> </li> </ul>	Ecology-Terrestrial	Amended by Jim Becker on 6/19	<p>Will be added to reading room on Aug 1</p> <p>Per teleconference on 7/31, items to arrive before Aug 31</p>
ET5	53	Copy of the transmission line corridor maintenance practices and silvicultural best management practices (BMPs).	<p>Ecology-Terrestrial</p> <p><i>Also see information need LU1</i></p> <p>Ecology-Terrestrial</p>	Amended by Jim Becker on 6/19	Will be added to reading room on Aug 1
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	Amended by Jim Becker on 6/19	Will be added to reading room on Aug 1
ET15	Audit	<p>Copy of the following references from Binder 4.1:</p> <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	Amended by Jim Becker on 6/19	Will be added to reading room on Aug 1
ET16	Audit	Report on the June 2007 delineation of the wetlands at the switchyards. See also ET1.	Ecology-Terrestrial	Amended by Jim Becker on 6/19	Will be added to reading room on Aug 1