

PMSummerColpEM Resource

From: Vokoun, Patricia
Sent: Monday, May 04, 2009 1:11 PM
To: Dozier, Tamsen
Subject: FW: VC Summer Post-Audit Follow Up Items with Target Dates
Attachments: VC Summer Post-Audit Follow Up Items w Specifics.doc

From: RICE, APRIL R [mailto:ARICE@scana.com]
Sent: Monday, April 27, 2009 4:23 PM
To: Patricia Vokoun; carl.berkowitz@pnl.gov; Kohn, Nancy P
Cc: RICE, APRIL R; SUMMER, STEPHEN E
Subject: VC Summer Post-Audit Follow Up Items with Target Dates

Here is our estimate for providing requested ER information needs.
April

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Subject: FW: VC Summer Post-Audit Follow Up Items with Target Dates
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From: Vokoun, Patricia

Created By: Patricia.Vokoun@nrc.gov

Recipients:
"Dozier, Tamsen" <Tamsen.Dozier@nrc.gov>
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Item No.	ER Section	Information Need Subject	Status of Information Need	SCE&G Follow Up Action	Approximate Time Frame and Manner for Follow Up
G-		General Information Needs	Completed, Closed Out with SCE&G Friday 3/13/09		
G-1	All	Make available all references given in the ER. Several specific requests are included elsewhere in this table.	Resolved for Rev 0	ER Rev 1 references that are not in Rev 0 to be provided electronically (just new ones in Rev 1.).	All ER references for Rev 0 and Rev 1 have been provided to NRC as of 1/26/09 (NND-09-011) and 4/2/09 (NND-09-072), respectively.
G-2	All	Make available the background information, including documentation that supports impact level conclusions for each subject area for each alternative site.	Resolved: see January 2009 Alternate Site Study (updated). ML090270990)	None at this time (study being reviewed by staff)	NA
G-3	All	Provide expert(s) in appropriate disciplines to discuss the contents of Tables 10.1-1 ('Construction-Related Unavoidable Adverse Environmental Impacts') and 10.1-2 ('Operations-Related Unavoidable Adverse Environmental Impacts'). It is anticipated that these topics will be addressed in specific breakout sessions for the individual disciplines.	Resolved for audit	None (comment: confirm with SMEs that items in these tables were addressed)	NA

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G-4	All	Provide large wall map(s) at the site audit that show key features related to the proposed project, including: <ul style="list-style-type: none"> o Proposed temporary and permanent facilities o Proposed construction laydown areas o Proposed intake pipeline o Proposed intake structure o Proposed discharge pipeline o Proposed transmission corridor(s) o Property boundaries o Points of interest (e.g., nearby residences, gas pipelines, nearby industries, including quarries/mines) o Proposed rail line spurs o Proposed haul roads 	Resolved.	None	NA
G-5	1.1.2.2	Make available someone who can discuss ownership of the land on which the VCSNS is located.	Resolved: see ER 2.2.1.1, 1 st and 2 nd paragraphs.	Provide confirmatory statement and map showing property boundaries (see G-6)	Provide response by 5/1/09
G-6	1.1.2.2	Make available someone who can discuss whether all construction and operation activities will occur within the confines of the current VCSNS site.	Resolved for audit	Provide confirmatory statement and map showing property boundaries and construction activities.	Provide response by 5/1/09
G-7	1.2.1	Make available authorizations and consultations listed in Table 1.2-1 and additional correspondence that has been received since submission of the application.	Resolved: staff examined notebook with this material, valid at time of site audit (also in Appendix A or ER Rev 0, updated in Rev. 1).	Keep NRC updated on authorizations and consultations on a quarterly basis.	Next quarterly update will be provided June 2009.
G-8	2.1	Make available someone who can discuss whether there is barge or other water transportation access to the site.	Resolved for Audit. Applicant stated no barge or water access to site; adjacent waters not considered navigable by the USACE	Provide confirmatory statement regarding barge or water access to site.	Provide response by 5/1/09

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G-9	All	<p>Provide access to all GIS and/or CAD data/databases used to support the Environmental Report analysis and results including existing and proposed conditions as appropriate. Data should generally include, but not limited to:</p> <ul style="list-style-type: none"> a) All existing and proposed site infrastructure (roads, buildings, intake/discharge pipelines, transmission lines, utility right-of-ways/transmission corridors, power blocks, switchyards, pipeline corridors, cooling and retention ponds, dams, canals, rail lines, monitoring/instrument stations, etc.) b) Location data (official property boundary, official unit point location, exclusion area boundary, and other relevant boundaries on-site or regionally) c) All surface and groundwater hydrologic data (watershed/subbasin boundaries, stream/river channels, springs, sinkholes, flood boundaries, reservoir boundary, site stormwater drainage, levees, hydrogeologic study boundaries, aquifers, potentiometric contours, well locations, surface water monitoring sites, etc.) d) All terrestrial and aquatic ecological data (wetlands, ponds, terrestrial and aquatic sampling sites, wildlife/habitat areas, land use/land cover, threatened and endangered species locations, e) Terrain and bathymetric data (LIDAR, contours, river cross-sections, bathymetric point samples, etc.) f) Socioeconomic data (sector data at various radii, census blocks w/ attribute data including low income and minority data, state./county park recreational area boundaries, trails, water trails, wildlife management units, traffic count data, commuter routes, etc.) 	<ul style="list-style-type: none"> a) Not resolved: for transmission line data b) Resolved: for other GIS data <p>NRC to provide guidance for electronic submission</p>	<ul style="list-style-type: none"> a) SCE&G GIS and Santee Cooper GIS transmission line data to be provided through mechanism to be arrived at in consultation with NRC. b) Other SCE&G GIS and Santee Cooper GIS data to be provided on DVD 	<ul style="list-style-type: none"> a) Provide electronic files to NRC by 5/7/09 b) Provide electronic files to NRC by 5/21/09

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		g) Geology and soils data (site and vicinity data, faults, folds, seismic activity, etc.) h) Alternative (candidate) site data (point locations, proposed site boundary, proposed infrastructure, etc.)			
G-10	All	Provide access to ER figures (in .jpeg, or .png or .tif format at a resolution of at least 300 dpi, and sized correctly) and corresponding legends. Note A) Provide a more readable version of the Site Plan (ER figure 3.1-3). B) Figures for the wind roses (Figures 2.7-2 through 2.7-13 need not be included in this request.	Resolved for audit	Provide figures from ER in publishable format (Comment: GIS figures were derived from GIS layers that went directly into pdf format).	Provide files for figures by 5/11/09.
ACC-		Accidents	Completed, Closed Out with SCE&G Friday 3/13/09		
ACC-1	7	A tour, or tours, are needed to the locations of proposed reactor buildings, exclusion area boundary (EAB) and low population zone (LPZ), nearby residences and public facilities, transportation routes near the site, and water users (recreational and commercial).	Resolved during site tour.	None	NA
ACC-2	7.2	Provide an expert to discuss potential changes in land used as it relates to accident calculations.	Resolved for audit. Land use determined from SECPOP (standard calculation package). Will be evaluated during confirmatory review.	None	NA

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ACC-3		Provide an expert to discuss use of the DBA doses and X/Q values from the AP1000 DCD Rev 16 for the Summer ER.	N/A—see questions ACC-8 through ACC-15 which are based on ER Rev 1 and DCD Rev 17.	None	NA
ACC-4		If not already available, provide access to electronic copies of the MACCS2 code input and output and provide expert to discuss site specific input parameters used in the code.	Resolved: MACCS 2 code input was reviewed during site audit. Input parameters were reviewed.	See ACC-14	See ACC-14
ACC-5		Provide expert to discuss the SAMAs (both the AP1000 SAMDA review and the Summer site specific SAMDA review that was performed.) Discuss the SAMAs to determine whether there are SAMDAs, procedural modifications, or training activities that can be justified to further reduce the risks of reactor severe accidents	Unresolved: SAMA and SAMDA were reviewed. A SAMA analysis cannot be completed until the reactor is built. However, NRC guidance is open-ended on how the applicant or reviewer should perform SAMA at this stage.	NRC staff is deliberating and will inform SCE&G if more information is required to meet regulatory requirements in this area.	No response required at this time.
ACC-6	7.1	If not already available, provide access to electronic copies of input and output files for PAVAN and XOQDOQ. Note: see similar requests in MET [and HP] sections.	Resolved for audit	See ACC-8	Provide electronic files to NRC by 4/30/09.

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ACC-7	NA	Be prepared to discuss how changes in the AP1000 design set forth in revisions 17 of the AP1000 Design Control Document Revision 16 (which is used as the basis for the applicant's ER) affect the AP1000 probabilistic risk assessment and the implications of the changes on the severe accident risk assessment for the surrounding region. The changes of interest include but are not limited to design basis accidents and severe accident source terms including core damage frequencies.	Resolved for audit	Refer to ACC-8 through ACC-15	NA
ACC-8		Provide, in electronic format, input and output files associated with the PAVAN DBA XQ's. Is there a calculation package available to review during the site audit?	Resolved for audit	Provide input and output files for PAVAN, XOQDOQ. Make available calculation packages.	Calculation packages will be made available in reading room approximately 4/30/09. Input and Output files will be provided to NRC by 4/30/09.
ACC-9		Provide, in electronic format, input and output files associated with the PAVAN DBA XQ's. Is there a calculation package available to review during the site audit?	Resolved for audit (Note SME was looking for process for determining EAB distances used in PAVAN)	Not at this time	NA
ACC-10		Describe the method used for calculating X/Q at the LPZ in PAVAN. Why were 16 PAVAN runs made using the LPZ distances in Table 7.2-12? Why not enter the LPZ distances as listed in Table 7.2-12 in a single run?	Resolved for audit	Not at this time	NA

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ACC-11	Sec 2.7.5.2, pg 2.7-31	Clarify which sector has the highest X/Q at the EAB and LPZ. Text on this page seems to suggest conflicting directions when compared to tables the text references.	Resolved	Applicant to correct revision errors.	Provide response by 5/13/09.
ACC-12	7.1.1, pg 7.1-1	Discuss what changes occurred in going from Revision 16 (ER Rev 0) to Revision 17 (ER Rev 1) of the Westinghouse AP1000 DCD.	Resolved	None. DCD is ultimate reference.	NA
ACC-13	7.1.2, pg	Have the highest 0-2 hour activities (Ci) been determined and used in calculating the DBAs for the EAB (per Reg Guide 1.183 Section 4.1.5)? Tables 7.1-2 through 7.1-10 does not have the highest 2-hour activities identified.	Resolved for audit	Provide updated calculations and tables, and check for errors in ER Table 7.1-5	TBD
ACC-14	7.2 Severe Acc	Provide, in electronic format, input and output files associated with the MACCS2 severe accident analysis. Is there a calculation package available to review during the site audit?	Resolved for audit	Provide input and output files for MACCS2 severe accident analysis. Make available the MACCS2 calculation packages for review.	Calculation packages will be made available in reading room by 5/22/09 Input and Output files will be provided to NRC by 4/30/09
ACC-15	7.2.2, pg 7.2-3	A sensitivity analysis using meteorological data from July 2003 through June 2006) measured at Unit 1 was performed. How does the analysis in the ER using the 2007 data compare with these other years?	Resolved for audit by response to ACC-14. Sensitivity runs will be included with input file submission.	None at this time	NA

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ALT-		Alternatives	Completed, Closed Out with SCE&G Thurs 3/12/09		
ALT-1	N/A	Provide an expert on the alternative power assessment for SCEG. This expert should be able to discuss and make available such information as:			
		<ul style="list-style-type: none"> power purchasing information addressing power across all sectors of the generation resources of the region given the no-action alternative (may also be addressed via Chapter 8) 	Addressed by SCEG. For Santee Cooper, addressed by Board Resolutions.	Provide Santee Cooper Board Resolutions on the docket if not publicly available.	Provide response by 5/1/09
		<ul style="list-style-type: none"> emissions calculations and technology selection criteria for emissions estimates 	Calculations reviewed and found acceptable.	None	NA
ALT-2	N/A	Provide an expert on the alternative sites assessment for SCEG. This expert should be able to describe such issues as:			
		<ul style="list-style-type: none"> How the ROI was clearly identified and screened to provide legitimate candidate sites (e.g., The ER identifies the state as being the ROI; the updated Jan. 2009 siting study focuses only on the SCEG service territory). Has this ever included the service territory of Santee Cooper? 	Resolved for audit	Provide revised Section 9.3.2 redescrbing the ROI and how potential sites were identified	Provide response by 5/26/09

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		<ul style="list-style-type: none"> • derivation of weighting criteria used for potential site screening • How the exclusionary and avoidance criteria were selected. 	<p>These 2 bullets resolved during discussion to include next lowest scoring site (FA-1) as an alternative. In-depth analysis of additional alternative site needed.</p>	<p>Provide analysis of additional alternative site FA-1 as a citable reference.</p>	<p>Provide response by 5/26/09</p>
		<ul style="list-style-type: none"> • If any further analysis was, or should be, included regarding the reconnaissance level information as provided via the ER for either the proposed site or any of the three alternatives. 	<p>Resolved for alternative site audit</p>	<p>Provide information on the configuration of the proposed action on all of the alternate sites, to include power block, cooling tower(s), transmission line corridors, intake and discharge points, etc.</p>	<p>Provide response by 5/26/09</p>
ALT-3		<p>Purpose and Need Statement requires revision to demonstrate that alternative options exist. Relevant later sections will need to align with the Chapter 1 revision.</p>	<p>Resolution status to be determined upon review of Chapter 1 markup from applicant.</p>	<p>Provide revised Chapter 1 and relevant later sections revised to align with revised Chapter 1.</p>	<p>Provide response by 5/11/09</p>

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BC-		Benefit-Cost Balance	Completed, Closed Out with SCE&G Thurs 3/12/09		
BC-1	10.4.3	Provide an expert to discuss the following: <ul style="list-style-type: none"> • Important conclusions to be drawn from the summary in Table 10.4.4 • The balancing of all internal and external benefits and costs • Characterization of the net benefit (or cost) to society of the proposed action, based on this assessment • Accounting for costs and benefits that cannot be precisely determined at this time. 	All bullets to be addressed by additional narrative summary	Provide narrative summary of requested information.	TBD
BC-2	10.4.2.1	Provide an expert to discuss the following: <ul style="list-style-type: none"> • Factors affecting the reliability of the capital cost estimates discussed. • Comparison to costs reported for other AP 1000 sites. • Expected trends in costs over the next 10 years. • Characterization of the net benefit (or cost) to society of the proposed action, based on this assessment. 	All bullets resolved by PSC filing information	None	NA
BC-3	10.4.2.2	Provide an expert to discuss the following: <ul style="list-style-type: none"> • How the provisions of the Energy Policy Act of 2005 specifically mitigate projected construction and operations costs over the life of the proposed facilities. 			Provide response by 5/21/09

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		<ul style="list-style-type: none"> • The anticipated amount of Federal incentives likely to apply to the proposed action from the following: <ul style="list-style-type: none"> - Production tax credit for the first advanced reactors brought on line in the US - Federal risk insurance benefits expected as part of the Nuclear Power 2010 Partnership - Any other economic incentive - Expected impact of these incentives in terms of the applicant's decision to build and the impact on the proposed action in case the applicant does not qualify for some or all of the incentives 	<p>Information for production tax credit incentives is the only information presently available, it is in PSC filing.</p> <p>Resolved for audit</p> <p>None available</p> <p>Resolved for audit</p>	<p>Provide the model (spreadsheet output) for projecting production tax credit allocations.</p> <p>Provide description of role of insurance in planning.</p> <p>Provide description of other incentives in planning</p> <p>Provide description of role of all incentives in planning</p>	
BC-4	1.1.2.7 & 4.4.2.2.1	<p>Provide an expert to discuss the following items related to the timing of impacts:</p> <ul style="list-style-type: none"> • Factors affecting the construction schedule provided. • Influences of recent economic events on the published schedule. • Any expected changes in planning assumptions for completion of the two units. 	Resolved for audit by SC Baseload Review Provisions (SC S. 431)	None at this time	NA

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CR-		Cultural Resources	Completed, Closed Out with SCE&G Thurs 3/12/09		
CR-1	1.2.2	Provide an expert to explain how “general site cleanup activities and protection of existing historical site” was completed and a description of the historical site that was protected.	Resolved in site audit discussions.	None	NA
CR-2	1.2.2 and 4.1.3	Provide an expert to explain how preconstruction activities take into account impacts to cultural resources and to explain how construction and preconstruction impacts to cultural resources are distinguished.	Resolved in site audit discussions.	Provide written explanation of how impacts of pre-construction are distinguished from construction impacts for archaeological sites.	Provide response by 5/11/09
CR-3	2.5.3 and 4.1.3	Provide an expert to explain if impacts to cultural resources resulting from the new emergency operations facility are included in Section 4.1.3.	Resolved for audit.	SCE&G will provide a response; results of survey for emergency operations facility.	Provide response by 5/11/09
CR-4	2.5.3	Provide a knowledgeable guide for a tour of the Pearson Cemetery and site 38FA349.	Resolved. Addressed at site audit discussions.	None.	NA

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CR-5	2.5.3	<p>Provide references for the descriptions of cultural resources located within the project area (#104, 106, 52, 53, 54, 55, and 135).</p> <p>Provide references for the descriptions of cultural resources located within the project area (Martin, Nichols 2002, McCutchen James, NSA 2006a, 2006b, 2007a, 2007b, 2008). NSA are the five archaeology reports. Will get the 4. The 2008 report will come later when it is finalized with SHPO. Need Revels 2002 and 2003, Santee Cooper 2008, SCE&G 2008, Teague 1979, Trinkley 1994, Webb 2006) [authors & dates added by SME to avoid confusion between Rev 0, Rev 1]</p>	Resolved for audit.	Provide clean, color hard copies of requested archaeological reports (list provided at left). Phase 2 archaeological report will be forwarded after Chuck Cantley (SC SHPO) concurs.	Provide response by 5/7/09
CR-6	2.5.3	Provide an expert or reference for the Transmission Line Siting Study that explains how cultural resources will be identified (as noted on p. 2.2-5).	Open until receive written responses, document and until decide on what do for existing lines. Continue consultation efforts regarding level of effort needed for existing lines between SHPO, SCE&G, Santee Cooper and NRC.	SCE&G to provide written response on cultural resource process for new transmission lines, as well as written response on process for existing t-lines. Santee Cooper to submit a copy of cultural resource report, and submit current procedures for existing lines. <i>Comment: Participate in consultation regarding existing lines between SHPO, SCE&G, Santee Cooper and NRC.</i>	Provide response by 5/7/09
CR-7	2.5.3	Provide an expert to provide and discuss documentation on the pre-contact-era archaeological context.	Resolved. Addressed at site audit discussions.	None.	NA

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CR-8	2.5.3	Provide an expert to describe how the direct and indirect impacts Area of Potential Effect (APE) has been defined and if SC SHPO has concurred with this APE definition (i.e. written correspondence) and if indirect impacts to above-ground structures and/or traditional cultural properties have been considered.	Resolved for audit.	Provide two Area of Potential Effect maps (one clean version [public] and one version with the sites identified within the APE [proprietary]).	Provide response by 5/15/09
CR-9	2.5.3	Provide an expert to explain the methodology, results of the cultural resources surveys conducted, recommendations of determination of eligibilities, and status of official NRHP evaluations for the cultural resources studies conducted for the COLA (and SHPO input on these).	Resolved for audit.	Provide remaining SHPO correspondence and Phase 2 Report. Provide any correspondence regarding 2008 addendum.	Provide response by 5/7/09
CR-10	2.5.3	Have available for discussion all SHPO correspondence, stakeholder and tribal correspondence related to cultural and historic resources.	Resolved for audit.	Provide all past, present and future SHPO/Tribal correspondence. Add NRC (Jennifer Davis and Patricia Vokoun) to distribution list for future correspondence.	Provide response by 5/7/09
CR-11	2.5.3	Have available for discussion copies of maps showing all archaeological, above-ground, and traditional cultural properties (TCPs) located in the project area and within one mile of the project area. Also make available maps showing NRHP-eligible properties located within 10 mile radius of the proposed plant and Transmission Line corridors.	Resolved for audit.	Provide Santee Cooper and SCE&G 2 Km T-line cultural resource reports.	Provide response by 5/7/09

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CR-12	2.5.3	Provide an expert (and supporting documentation) to describe the 26 archaeological resources that have been located in the project area.	Resolved for audit.	None.	NA
CR-13	2.5.3	Provide an expert to describe the methodology used to identify Traditional Cultural Properties (TCP)s that may be impacted by COLA activities.	Resolved for audit; Information is forthcoming for T-lines.	Commit to provide future responses and documentation of TCP identification by SCE&G and Santee Cooper once T-line routes identified.	Provide response by 5/7/09
CR-14	2.5.3	Provide an expert to describe efforts made to identify interested parties as part of the identification of historic properties process and the methodology used.	Resolved for audit.	Provide written response to information need. Provide any correspondence between SCE&G and interested parties.	Provide response by 5/7/09
CR-15	2.5.3 (Appendix A)	Provide an expert to describe how and if the SHPO's concerns related to the archaeology at the nuclear station, listed on p.A-8, have been addressed or implemented.	Open. Further consultation needed.	<i>Comment: SCE&G to submit a written response documenting how they will respond to SHPO letter dated August 16, 2007.</i>	Provide response by 5/15/09
CR-16	2.5.3	Provide an expert to explain what the plans are for cultural resource investigations at the water treatment plant and intake structure.	Resolved. Addressed at site audit discussions.	None.	NA
CR-17	4.1.3	Provide an expert to describe how construction related impacts resulting from both transmission line and plant construction were determined to be small and why cultural resources monitoring will not be necessary.	Resolved for audit.	Provide written response to information need.	Provide response by 5/7/09

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CR-18	4.1.3	Provide an expert to describe avoidance and protection measures at the Pearson cemetery and at site 38FA349, 38FA366, and 38FA360 [last 2 sites added during site audit].	Open. Further consultation needed.	<p>Provide a narrative summary describing avoidance and protection measures at the sites listed in information need.</p> <p>Continue dialog with NRC and SHPO on management plan.</p> <p>Include archaeological sites on project/construction drawings and mark them as environmentally sensitive areas. <i>Comment: this request had been appended to end of list after CR-26; NRC SME advised that this request applies to CR-18.</i></p>	Provide response by 5/15/09
CR-19	4.1.3 also mentioned on page 4.6-6.	Make available copies of the two procedures referenced on page 4.1-5 (cultural resources procedures and inadvertent discovery procedures) and provide an expert to describe how they will be implemented.	Resolved for audit.	Provide existing EMP, and provide Unit 1 procedure. Provide a written response on implementation of existing procedures to future Units 2 and 3	Provide response by 5/7/09
CR-20	4.1.3	Include discussions of these impacts to any submerged archaeological sites that may be located in the Parr and the Monticello Reservoir.	Resolved	None.	NA
CR-21	4.1.3	Provide an expert who can provide a timeline for transmission line cultural resources investigations.	Resolved for audit.	SCE&G and Santee Cooper to provide written response on what is currently known and to update as information becomes available.	Provide response by 5/15/09

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CR-22	4.1.3	Make available copies of the cultural resources training module referenced in Section 4.6.1.2.	Resolved for audit.	Provide copy of training module.	Provide response by 5/7/09
CR-23	5.1.3	Provide an expert to describe how operation-related impacts resulting from both transmission line and plant operations were determined to be small.	Resolved for audit.	Provide written response to information need.	Provide response by 5/7/09
CR-24	9.3	Provide an expert to explain how cultural resources were weighted in the Alternatives Site Selection process.	Resolved for audit.	Provide written response to information need.	Provide response by 5/11/09
CR-25	9.3.3.1.7, 9.3.3.2.7 and 9.3.3.3.7	Provide an expert to explain how impacts to cultural resources at each of the alternative site locations were determined to be small.	Resolved for audit.	Provide written response to information need.	Provide response by 5/11/09
CR-26	10.5	Provide an expert to describe how cumulative impacts to cultural resources were conducted.	Resolved for audit.	Provide written response to information need.	Provide response by 5/7/09
AQ-		Ecology - Aquatic	Completed, Closed Out with SCE&G Thurs 3/12/09		
AQ-1	2.4.2	Provide an expert to discuss the relative abundance and life histories of aquatic species in the Monticello Reservoir during winter and summer months as well as Mayo Creek during winter and spring months.	Resolved for audit. a) Need September 2008 macro-invertebrate report for Monticello and Parr Reservoirs (SCE&G has final reports available) b) Need upcoming Mayo Creek 2009 fish reports and ichthyoplankton report (expected fall 2009)	a) Provide September 2008 report(s). b) Submit future ecological study or monitoring reports as soon as available.	Provide response by 5/7/09

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AQ-2	2.4.2	Provide an expert to identify spawning areas, nursery grounds, wintering areas, and migration areas within Mayo Creek, Parr Reservoir, and Monticello Reservoir.	Resolved in group discussions.	None	NA
AQ-3	2.4.2	Provide an expert to discuss the current condition/status of phytoplankton, zooplankton, and benthic macroinvertebrates, and SAVs within the Mayo Creek, Parr Reservoir, and Monticello Reservoir.	Resolved in group discussions.	None	NA
AQ-4	2.4.2	With regard to the "Fish Community Assessment of Parr Reservoir 2007-2008" report, provide an expert to discuss the report who can also provide the following documentation: a map of the sample locations (Figure 1 pg 5 is not legible); size class data for all fish handled during the study; catch per unit effort associated with each sampling effort at each site (see table 6 pg 10 of the Mayo Creek report for an example).	Resolved in group discussions.	None	NA
AQ-5	2.4.2	With regard to the "Mayo Creek Aquatic Survey" report, provide an expert to discuss the report as well as the following documentation: size class distribution of species by site and by season.	Data available but need in format requested.	Provide specific data from Mayo Cr, Parr Reservoir, and Monticello Reservoir in spreadsheet format: date sampled, sample station, fish species, length of individual fish.	Provide response by 5/7/09

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AQ-6	2.4.2	Provide the Normandeau (2007) SCE&G report on fishery surveys with data describing sampling efforts in Parr Res (pg 2.4-10 of the ER) and Monticello reservoir (pg 2.4-13). It is expected that this report will include information on sampling methods, CPUE by season and site, and size-classes fish sampled.	Resolved in group discussions.	None	NA
AQ-7	2.4.2	Provide a copy of the Dames and More (1985) report referenced on pg 2.4-9 of the ER.	Resolved in group discussions.	None	NA
AQ-8	2.4.2	Provide records of correspondence (i.e., correspondence that has been received since the ER publication) between SCE&G and the South Carolina Department of Natural Resources, USFWS, and tribal entities.	Resolved in group discussions.	None	NA
AQ-9	4.3.2 & 5.3.1.2	Provide an expert to discuss the impacts to aquatic ecosystems stemming from the installation of transmission lines on offsite areas as well as the continued maintenance and operation of transmission lines.	Resolved: quantitative information requested.	Santee Cooper to provide acreage of wetlands and linear footage of streams affected by new T line corridor.	Provide response by 5/7/09
AQ-10	4.3.2	Provide a detailed map as well as an expert to discuss the construction impacts to Mayo Creek. Note: the map on pg 3.9-17 of the ER does not name/list Mayo Creek.	Resolved. Map and design information for Mayo Creek bridge provided for viewing at audit.	Provide description of how the location of the 100 year floodplain was determined. Make available a map with Mayo Creek bridge design specifications and information.	Provide response by 5/7/09

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Item No.	ER Section	Information Need Subject	Status of Information Need	SCE&G Follow Up Action	Approximate Time Frame and Manner for Follow Up
AQ-11	4.3.2	Provide an expert to discuss the impacts to aquatic biota resulting from the temporary sewage treatment plant as well as shoreline construction activities including dredging, pile driving, the steel sheet cofferdam, and widening of the rail spur.	Resolved in group discussions.	None	NA
AQ-12	4.6	Provide an expert to discuss the ecological impact of construction to on-site wetlands (pg. 4.3-3) and aquatic habitats (pg 4.6-14).	Resolved in group discussions.	None	NA
AQ-13	4.6	Provide an expert to discuss the construction time windows for intake structure, blowdown line, and construction of raw water line, cooling towers, roads, and supporting infrastructure as they relate to impacts on aquatic ecosystems.	Resolved in group discussions.	None	NA
AQ-14	4.6	Provide an expert to discuss the cleanup and restoration of the site following construction. Pg. 4.68.	Resolved in group discussions.	None	NA
AQ-15	5.3.1.2	Provide a copy of the Geosyntec (2006) impingement report as well as an expert to discuss results of the report. Pg 5.3-3.	Resolved in group discussions.	None	NA
AQ-16	5.3	Provide an expert to discuss impingement of aquatic biota as related to changes in hydrodynamic and/or seasonal variation.	Resolved in group discussions.	None	NA
AQ-17	5.3	Provide an expert to discuss impacts of the thermal plume to aquatic biota. Pg. 5.3-13.	Resolved in group discussions.	None	NA
AQ-18	5.3	Provide an expert to discuss the chemical impacts to the Broad River. They should be prepared to discuss, for example, the types and concentrations of chemical constituents expected to be released into the receiving water body. Pg. 5.3-13.	Resolved in group discussions.	None	NA

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AQ-19	5.3	Provide an expert to discuss the physical impacts of discharge/scour at the location of the discharge unit.	Resolved in group discussions.	None	NA
AQ-20	5.6	Provide an expert to discuss the location of transmission lines and the impacts to important habitats and aquatic species. Pg. 5.6-4.	SCEG provided for viewing their Standard Operating Procedures "Wetlands", describing procedures for construction and maintenance of T-lines (ER Rev 1 ref # 4.3-12)	None (SOP will be part of submittal of ER Rev 1 references)	NA
AQ-21	6.5	Provide an expert to discuss dredge activities both during construction phases as well as any planned maintenance dredge activities. Pg. 6.5-3.	Resolved in group discussions.	None	NA
AQ-22	6.5	Provide an expert to discuss post-operational ecological monitoring. Pg 6.5-4.	Resolved in group discussions.	None	NA
AQ-23	N/A	Provide an expert to discuss the aquatic impacts of construction and operation at the alternative sites.	Resolved in group discussions.	None	NA

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TE-		Ecology - Terrestrial	Completed, Closed Out with SCE&G Thurs 3/12/09		
TE-1	2.4.1	Provide the following references: <ul style="list-style-type: none"> • Dames and Moore 1985. Environmental Monitoring Report January 1983 through December 1984 for the Virgil C. Summer Nuclear Station for the South Carolina Department of Health and Environmental Control and the Nuclear Regulatory Commission, April. 1985. • SCE&G 2002b. <i>Threatened and Endangered Species Field Survey V. C. Summer Nuclear Station</i>, November 2002. • SCE&G 2006. <i>230 kV Electric Transmission Right-of-Way Vegetation Management Program</i>, Revision 2. January 3, 2006. • Santee Cooper 2006. <i>Santee Cooper Transmission Vegetation Management Program</i>. February 17, 2006. • Nelson, J. B. 2006. <i>Threatened and Endangered Plant Species Survey: VC Summer Nuclear Station</i>, Submitted to Tetra Tech NUS, Inc., 2006 	Resolved. All Rev 0 references provided to NRC.	None	NA
TE-2	2.4.1	Provide an expert (and supporting documentation) to discuss results from the field reconnaissance survey conducted by SCE&G in late 2007 (2.4-4, 4.3.1.1). This was not in existence when the ER was written.	Resolved. Information provided in Rev. 1 of ER.	None	NA

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TE-3	2.4.1	Provide an expert (and supporting documentation) to discuss status of ongoing consultations with USFWS, SCDNR, and South Carolina Forestry Commission regarding "important" species and habitats on the site and vicinity.	Resolved in consultation correspondence.	None	NA
TE-4	2.4.1	Provide a reference or a document from USFWS stating there are "no areas designated by the USFWS as critical habitat exist at or near the VCSNS site" (ER page 2.4-3).	Resolved in consultation correspondence.	None	NA
TE-5	2.4.1	Provide an expert (and supporting documentation) to discuss the regulatory status of the wetlands on site and whether or not wetland delineation has been conducted at the site and vicinity and transmission corridors.	Resolved. Wetland delineation performed by SCEG, submitted to Corps. Data reviewed by NRC/PNNL during audit.	None	NA
TE-6	2.4.1	Provide an expert (and supporting documentation) to discuss methods used to mitigate terrestrial impacts from construction activities (for example Best Management Practices (BMPs).	Resolved. Referred to BMPs from SC Forestry Commission and streamside management zone requirements, both publicly available	None	NA
TE-7	2.4.1	Provide an expert (and supporting documentation) to discuss BMPs to be used in streamside management zones specified by the South Carolina Forestry Commission.	Resolved (see TE-6)	None	NA

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Item No.	ER Section	Information Need Subject	Status of Information Need	SCE&G Follow Up Action	Approximate Time Frame and Manner for Follow Up
TE-8	2.4.1	Provide an expert (and supporting documentation) to discuss ecological resources associated with specific routes for the transmission corridors. This should include identification of "important" species and habitats.	Resolved in T-Line discussions and by information in T-Line siting studies.	None	NA
TE-9	2.4.1	Provide an expert to discuss the terrestrial habitats that could be impacted by the proposed action (including those along the transmission corridors). Provide a reference for the "common" wildlife information presented on Page 2.4-3 of the ER.	Resolved. Information provided in Rev. 1 of ER.	None	NA
TE-10	4.3.1	Provide an expert to discuss wetland delineation associated with the site preparation activities and specific BMPs to be used to mitigate impacts to wetlands in such areas (4.3-3) (survey results from Fall 2007 are necessary).	Resolved through discussions of wetlands and wetland mitigation. SCEG action re wetlands is pending Corps review (see TE-5)	None at this time	NA
TE-11	4.3.1	Provide an expert to discuss the site redress plan.	Resolved. Redress plan not needed at this stage	None at this time	NA
TE-12	4.3.1	Provide an expert to identify the construction activities that impact "important" species and habitats of the site and vicinity, transmission corridors, and offsite areas (need new data from 2007 report for analysis).	Resolved in T-Line discussions and by information in T-Line siting studies.	None	NA
TE-13	4.3.1	Provide an expert to discuss Best Management Practices for those areas to be used on a short-term basis during construction.	Resolved (see TE-6)	None	NA

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TE-14	5.3.3.2	Provide an expert (and supporting documentation, e.g., a map) to specify which terrestrial habitats are in the cooling tower deposition zones.	Resolved. Information provided in Rev. 1 of ER.	None	NA
TE-15	5.3.3.2	Provide an expert to discuss potential impacts to "important" terrestrial species and habitats from the heat dissipation system.	Resolved. Information provided in Rev. 1 of ER.	None	NA
TE-16	5.3.3.2	Provide an expert (and supporting documentation) to discuss potential impacts to local vegetation from increased icing and fogging caused by cooling tower operation (for example: the 2007 plant survey).	Resolved. Information provided in Rev. 1 of ER.	None	NA
TE-17	5.3.3.2	Provide an expert (and supporting documentation) to discuss potential impacts to existing terrestrial shoreline habitats and biota during low flow conditions.	Resolved in wetlands discussions.	None	NA
TE-18	5.6.1	Provide an expert to describe maintenance practices to be used in important terrestrial habitats, such as marshes and natural areas, including any that could have a beneficial effect on specific terrestrial biota. Discussion should include information for the VCSNS and associated right-of-ways.	Resolved (see TE-6)	None	NA
TE-19	5.6.1	Provide an expert (and supporting documentation) to discuss operational and maintenance activities associated with transmission facilities that could impact "important" terrestrial species and habitats.	Resolved. Information provided in Santee Cooper and SCEG T-line siting studies.	None	NA

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Item No.	ER Section	Information Need Subject	Status of Information Need	SCE&G Follow Up Action	Approximate Time Frame and Manner for Follow Up
TE-20	6.5.1	Provide an expert (and supporting documentation to discuss critical life history information such as feeding/ foraging areas, wintering areas, and migration routes to the extent that the proposed action is expected to affect these parameters.	Resolved Information provided in T & E Species Survey for plants; in ER for wildlife.	None	NA
TE-21	6.5.1	Provide an expert (and supporting documentation) to discuss proposed pre-operational and/or operational monitoring programs related to terrestrial resources including the scope and frequency of these activities.	Resolved in discussions (no monitoring program planned unless required by Section 7 Consultation).	None	NA
TE-22	6.5.1	Provide an expert (and supporting documentation) to describe the activities of other agencies that have occurred/will occur in the potential impact area that may contribute to a cumulative impact on terrestrial resources.	Resolved. Information provided in Rev. 1 of ER.	None	NA
HP-		Health Physics	Completed, Closed Out with SCE&G Friday 3/13/09		
HP-1	N/A	Provide an expert to describe the liquid and gaseous source terms, release points, atmospheric dispersion models, and aquatic dispersion models. For source terms, the expert should describe departures, if any, from the AP1000 DCD.	Resolved	None	NA
HP-2	N/A	Provide an expert to describe the GASPARE II and LADTAP II analyses used to assess the impacts of gaseous and liquid effluents.	Resolved (calculations provided 10 March 2009)	None	NA

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HP-3	N/A	Provide access to electronic copies of GASPAR II and LADTAP II input and output files and all calculation packages used to generate dose and release calculations, such as population projections in radial compass sectors (population may be done in conjunction with socioeconomic SMEs).	Resolved	Applicant to provide inputs and outputs for computer codes GASPAR, LADTAP, XOQDOQ, PAVAN, and MACCS2.	NA
HP-4	N/A	Provide an expert to describe the radioactive waste systems, including exposure rates due to onsite storage of solid waste and independent spent fuel storage.	Resolved.	None	NA
HP-5	N/A	Provide an expert who can discuss exposure pathways and calculating doses to the public and biota from normal plant operations. Also, provide information on the presence or lack thereof of any unusual plants, animals, agricultural practices, or unusual food processing operations that can contribute 10% or more to offsite doses.	Resolved	Applicant to document/describe any unusual animal, plants, species, food processing exist that should be considered or why they were not considered. Add statement to report stating that these were considered and none apply.	Provide response by 5/15/09
HP-6	N/A	Provide one or more experts to discuss the models, assumptions, and input data used to arrive at the estimates for doses to construction workers, public, and biota from Unit 1 and the proposed Units 2 and 3. Provide experts to discuss all non-default assumptions used in LADTAP II and GASPAR II.	Resolved. Calculations provided 10 March 2009.	Applicant to justify use of 1/2 mile for biota dose calculation with consideration given to the fact that wildlife can roam within 1/2 mile.	Provide response by 5/15/09

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HP-8	N/A	Provide an expert responsible for the radiological environmental monitoring program to discuss the design and technical basis for the program.	Resolved (Monitoring is same as the approved Unit 1; needed reports can be retrieved from ADAMS)	None	NA
HP-9	N/A	Provide an expert to discuss the assumptions and calculations leading to collective dose for construction workers.	Resolved (ER Section 3.10 referencing this value was adequately discussed)	None	NA
HP-10	N/A	Provide an expert (i.e., the principal author(s) of the radiological sections of the ER) to discuss the source term, liquid and gaseous release points, transport and exposures used to calculate doses to construction workers, and MEI and population doses.	Resolved	Three Actions for applicant 1. Clarify how the two directions to the EAB are used in Table 5.4-5 2. In Tables 2.7-16 and 2.7-18, need to clarify where the measurement point of reference is from. 3. Table 5.4-1 Use low river flow for liquid effluent doses.	Provide response by 5/15/09
HP-11	N/A	Provide an expert to discuss the assumptions (χ/Q , stability classification, wind directions and speeds based on release and receptor locations) used to analyze transport of releases from Unit 1 during construction of Units 2 and 3, and from Unit 2 during construction of Unit 3.	Resolved	Provide written discussion of the following issue: could a construction worker be closer than the center to center distance assumed (0.17 mile)?	Provide response by 5/26/09

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HP-12	N/A	Provide an expert to discuss the onsite movement of nuclear fuel and radiological waste during construction of Units 2 and 3. (This could be an expert responsible for the uranium fuel cycle environmental data addressed in ER section 5.7 and 10 CFR 51.51.).	Resolved.	None	NA
HP-13	N/A	Provide an expert to discuss methods for identifying exposure pathways and calculating doses to the public and the biota from normal plant operations. These discussions should include information confirming existing and projected locations of nearby (within 10 miles) homes, off-site populations, cows/goats, gardens, sustenance forage and hunting, potable and irrigation wells, irrigation using surface water, water intakes, fisheries, recreation etc. Provide a map showing all special locations for which doses are calculated using GASPAR II. Provide a tour of all locations at which dose calculations are made, as well as other nearby gardens, farms, houses, etc (may be combined with other tours).	Resolved	None	NA
HP-14	N/A	In conjunction with Aquatic Ecology and Terrestrial Ecology SMEs, provide an expert able to discuss the adequacy of the choice of surrogate species in LADTAP II calculations.	Resolved	None	NA
HP-15	N/A	Provide an expert to discuss the Radiological Environmental Monitoring Program (REMP) and the Offsite Dose Calculation Manual (ODCM).	Resolved	None	NA

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HP-16	N/A	Provide an expert to discuss concerns, if any, which have been expressed to the applicant by State Officials regarding health effects near the site.	Resolved	None	NA
HP-14	N/A	In conjunction with Aquatic Ecology and Terrestrial Ecology SMEs, provide an expert able to discuss the adequacy of the choice of surrogate species in LADTAP II calculations.	Resolved	None	NA
NRHH-		Non-Radiological Human Health	Completed, Closed Out with SCE&G Thurs 3/12/09		
NRHH-1	3.6.3.1	Provide an expert with supporting documentation to discuss the location and elevation of release points of gaseous effluents (e.g., from diesel engines, gas turbines, heating plants, and incinerators) released during facility operation and treatment prior to release.	Resolved. Information should be in document referenced in Rev 0 of ER; PNNL to review.	None at this time. <i>Possible follow-up phone call with NRC/PNNL</i>	NA
NRHH-2	3.6.3.1	Provide documentation from consultations with permitting agencies that specify requirements concerning atmospheric emissions.	Resolved for audit	Provide relevant correspondence with DHEC.	Provide response by 5/7/09
NRHH-3	3.6.3, 3.6.3.1, 3.6.3.2, 3.6.3.3, 3.6.3.4 and 3.6.3.5	Provide an expert to discuss, with supporting documentation, the tabulated estimates of the quantities of wastes and their concentrations at points of release as appropriate to the system.	Resolved. Information provided in Table 3.6-5 in Rev. 1 of ER.	None	NA
NRHH-4	3.6.3.3, 3.6.3.4, 3.6.3.5	Provide an expert to discuss, with supporting documentation, the procedures for offsite disposal of wastes as required by regulatory agencies.	Resolved. PNNL to review reference(s) provided on pg 3.6-6 of ER.	None at this time.	NA

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NRHH-5	3.6.1, 3.6.2 p. 3.6-1	Provide permit requirements from SCDHEC relevant to the treatment, control and discharge of effluents in the context of State and U.S. Environmental Protection Agency (EPA) effluent limitation guidelines (NPDES) and new source performance standards.	Resolved by response to SW-12.	None	NA
NRHH-6	2.5.1.1, 2.5.2.5	Provide an expert to discuss, with supporting documentation, the proximity of recreational activities, such as swimming, fishing, boating, to the thermal discharge into the receiving waters and likelihood of interaction by members of the public within the thermal influence.	Resolved. Information provided in Rev. 1 of ER.	None	NA
NRHH-7	5.3.4.1	Provide an expert (and supporting documentation, including information from SCDHEC) who can discuss the level of concern regarding etiological agents in the region of influence.	Resolved. Consultation with DHCEC was conducted during Unit 1 License Renewal. NRC/PNNL to review ER Rev 1, Section 2.3.2-7.	None at this time.	NA
NRHH-8	5.12.2	Provide an expert to discuss, with supporting documentation, worker protection procedures regarding etiological agents exposure during activities related to cooling towers.	Resolved. Information provided in Rev. 1 of ER.	None	NA
NRHH-9	5.3.4.2	Provide an expert to discuss, with supporting documentation, noise levels measured at the nearest offsite residence.	Resolved. Some information in ER Rev. 1; NRC/PNNL to review reference and figure used in calculation.	None at this time. <i>Possible follow-up phone call with NRC/PNNL</i>	NA

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NRHH-10	5.5.2	Provide an expert (and supporting documentation) to discuss information plans for treatment and/or restoration of retired disposal sites.	Resolved for audit. NRC/ PNNL to review DCD Rev 17, Chap 11, Sec 11.4.	None at this time.	NA
NRHH-11	5.5.1.3 (air), 5.5.1.2 (land)	Provide consultation letters with SCDHEC specific to standards for air quality and solid waste disposal to land.	Resolved by discussions and by NRHH-2 response.	None	NA
NRHH-12	5.5.3 p.5.5-4	Provide an expert to discuss SCE&G's waste minimization program (including the Storm Water Pollution Prevention Program).	Resolved by response to SW-12.	None	NA
NRHH-13	5.6.3.3	Provide an expert to discuss and supporting documentation related to the maximum predicted noise levels at the edge of rights-of-way (from transmission system operation) and give a reference supporting the prediction that it would be a "SMALL" impact.	Resolved. Information provided in Santee Cooper and SCE&G T-Line siting studies.	None	NA
NRHH-14	5.3.4.2 and	Provide an expert to discuss and supporting documentation related to a comparison of noise emission levels measured from the power-transmission system to Federal and State standards for noise emissions.	Resolved. Information provided in Rev. 1 of ER.	None	NA
NRHH-15	5.6.3.1	Provide an expert to discuss the potential impacts from ozone from the power-transmission system. The ER states that 230 kV lines are planned, but there is no mention of ozone in the context of transmission lines.	Resolved. Information provided in Rev. 1 of ER.	None	NA
NRHH-16	5.6.3.1	Provide an expert and supporting documentation to assure that the proposed system will be in conformance the National Electric Safety (NESC) code concerning steady-state currents.	Resolved. Information provided in Rev. 1 of ER.	None	NA

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NRHH-17	10.5.1, 10.5.2 p.10.5-1 to 6	Provide an expert (and supporting documentation) to discuss cumulative impacts from etiological agents in the project area.	Resolved by discussions and review of information on discharges to Parr Reservoir and Broad River.	None at this time.	NA
NRHH-18	10.5.1, 10.5.2 p.10.5-1 to 6	Provide an expert (and supporting documentation) to discuss the impact of noise to members of the public associated with plant operation.	Resolved. No basis for comparison because no cooling towers presently operating on site. NRC/ PNNL to review ER Rev 1.	None at this time.	NA
SW-		Hydrology - Surface Water	Completed, Closed Out with SCE&G Friday 3/13/09		
SW-1	2.3.1.1	Provide an expert to discuss the Broad River Monticello Reservoir, and Parr Reservoir physical description, watershed characterization (including precipitation and runoff rates), Broad River flow variability, sediment process (erosion, sedimentation, bed load and turbidity), impact of the Fairfield Pumped Storage Facility, flood flow and water flow estimates for Parr Reservoir, evaporative and seepage loss analysis for Monticello Reservoir, thermal monitoring of Monticello Reservoir including the literature and data sources and various analyses that support these characterizations.	Mostly resolved in discussions but need inconsistencies in ER to be corrected (e.g., slope of Broad River), and some quantitative information requested.	Provide clarification of 1) inconsistencies in ER and 2) impact of Fairfield Pumped Storage Facility on flows measured at Alston.	Provide response by 5/18/09

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SW-2	2.3.2.2	Provide an expert to discuss the annual variability and trends in surface water usage for counties and other users and FERC license requirements especially during low flow conditions.	NRC/PNNL to review recent DHEC data, evaluate representativeness of use data.	None at this time	NA
SW-3	2.3.1	Provide an expert to discuss water quality including monitoring in the rivers and reservoirs and any impairment listings including and after the 2004 and 2006 surveys, SCDNR and SCDHEC standards for surface waters in this specific region, the Monticello Reservoir water quality assessment, radiological monitoring, thermal discharges as it relates to thermophilic and etiologic organisms.	NRC/PNNL to review recently available (2008) DHEC water quality data.	Provide figure or figures of water quality sampling locations, including DHEC stations. Provide comparison table of water quality data with regulatory limits.	Provide response by 5/7/09
SW-4	3.3, 3.3.2	Provide an expert to discuss the water use tables and diagrams, and water treatment including expected transfers from Parr Reservoir to and from Monticello Reservoir and consumptive use, water treatment systems, chemical use rates and frequency of addition.	Resolved in discussions and information presented at audit	None	NA
SW-5	3.4	Provide an expert to discuss the circulating water system, service water system and discharge design.	Need more information on constituents in effluent. NRC/PNNL to consult with DHEC on water quality parameters of interest.	None at this time	NA

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SW-6	3.6.3.2	Provide an expert to discuss water quality include NPDES permitting, chemical and biocide use rates, frequency of use, etc for both discharges (Parr Reservoir and Monticello Reservoir), any additional effluent constituent that may be included in the modified National Pollutant Discharge Elimination System (NPDES)permit discussed in 3.6.3.2, and the performance characteristics of the wastewater retention basin (residence time, capacity, design suspended solids of effluent, disposition of settled material, etc).	Resolved in discussions and information presented at audit	None	NA
SW-7	4.2	Provide an expert to discuss the Storm Water Pollution Prevention Plan, possible design settling basin designs, receiving water bodies, dewater rates, etc, the impact of construction (including transmission lines) on hydrology and water quality, construction permitting process especially the roles of SCDHEC, FERC, and USACE for various construction activities, any possible impact to water quality other than soil/sediment alterations (chemical, diesel, concrete batch processing, etc) and construction phase water monitoring.	Resolved in discussions and information presented at audit	Provide Stormwater Pollution Prevention Plan (SWPPP), Site Environmental Management Plan, and Spill Prevention, Control, and Countermeasures (SPCC) Plan for VCSNS Units 2 & 3 (Doc # VGS-0000-XOR-001).	Provide plans by 5/7/09 to reading room
SW-8	5.2	Provide an expert to describe the how the Monticello Reservoir would be operated under low flow conditions in the Broad River.	Resolved in discussions and information presented at audit	None	NA

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Item No.	ER Section	Information Need Subject	Status of Information Need	SCE&G Follow Up Action	Approximate Time Frame and Manner for Follow Up
SW-9	5.2	Provide an expert to discuss the status of the determination of whether National Pollutant Discharge Elimination System (NPDES) Phase I or Phase II will be employed and the alteration to discharges when radioactivity is detected within a waste stream and procedures used when a non-radioactive spill occurs (diesel fuel, hydraulic fluid, etc), and any quantitative estimate of solid and organics contained in effluents as well as frequency of use and loading of water treatment additives.	Resolved in discussions and information presented at audit	(SWPPP to be provided in SW-7)	See SW-7
SW-10	5.2	Provide an expert to discuss the zone of hydraulic influence in the Monticello Reservoir related to the intake system.	Resolved in discussions and information presented at audit	None	NA
SW-11	5.2	Please have an expert available to discuss the thermal plume model and the Toblin report (Toblin, 2007, cited on page 5.3-8 of the ER) including the estimated average and low flow currents used for Parr Reservoir model analysis	Resolved in discussions and information presented at audit	None	NA
SW-12	5.2.4	Provide an expert to discuss the surface water flow monitoring program (i.e. figure showing locations).	Resolved for audit.	Provide annotated ER Figure 2.3-12, ER Figure 2.3-4. Provide Figure 1-3 in the Radiological Environmental Operating Report	Provide response by 5/7/09
SW-13	7.2	Provide an expert to discuss water use and water quality impact during construction and operational phases including use of Best Management Practices, Storm Water Pollution Prevention Plan, permits, mitigation measures being considered, spill prevention, water quality monitoring, etc.	Resolved in discussions and information presented at audit	(SWPPP and SPCC to be provided in SW-7)	See SW-7

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SW-14	10.5.1	Provide an expert to discuss the level of consumptive water use that would not be considered small under different flow conditions, the status of safe yield analysis and how it support the determination of its findings related to cumulative water use impacts, and the cumulative impact to water quality as presented in 10.5.1 and Table 10.1-1.	Resolved for audit.	Revise ER Section 10.5.2 to expand discussion on consumptive water use and address uncertainty in discharge measurements.	Provide response by 5/19/09
SW-15	9.3.3	Provide an expert to discuss alternative sites (Savannah River Site, Cope Generating Site, and the Saluda in terms of hydrology, water use and water quality).	Resolved for audit.	Topic to be covered during Alternative Site Visits.	NA
SW-16	9.4.1	Provide an expert to discuss alternative heat dissipation systems including the sensitivity of water use rates relative to feasible mechanical and natural draft cooling designs.	Resolved in discussions and information presented at audit	None	NA
SW-17	9.4.2	Provide an expert to discuss alternative intake and discharges designs including the tradeoffs related to active versus passive screens for intake structures and the CORMIX modeling analysis for the final proposed diffuser design.	Resolved for audit.	Provide the electronic CORMIX data files	Electronic files to NRC by 4/30/09
SW-18	9.4.2	Provide an expert to discuss water supply alternatives (Monticello Reservoir, Parr Reservoir and groundwater) and water treatment alternatives, especially those which would differ from those used for Unit 1.	Resolved in discussions and information presented at audit	None	NA

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GW-		Hydrology - Groundwater	Completed, Closed Out with SCE&G Friday 3/13/09		
GW-1	2.3.1.2	Provide copies for review of boring logs, pump test data, well logs.	Resolved for audit	Provide clean hard copy of MACTEC 2007 report. Make available calculation packages Hydraulic Conductivity From Slug Tests, Radionuclide Transport, and Groundwater Data	MACTEC Report is Part 11 of COLA. Calculation packages will be made available in reading room by 4/30/09 Input and Output files will be provided to NRC by 4/30/09
GW-2	2.3.1.2	Provide an expert to discuss the aquifer testing conducted at the site and material property measurements of samples from the saprolite/shallow bedrock zone and deep bedrock zone.	Resolved for audit	Provide electronic AQTESOLVE input/output files used in slug test analysis. Provide description of bedrock total and effective porosity based on geologic interpretations and relevant studies. Provide citable written description of the uncertainty in the value of the effective porosity of the saprolite.	Input and Output files will be provided to NRC by 4/30/09 Provide response by 6/2/09

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Item No.	ER Section	Information Need Subject	Status of Information Need	SCE&G Follow Up Action	Approximate Time Frame and Manner for Follow Up
GW-3	2.3.1.2	Provide an expert to describe groundwater pathways from the site along with the potential for an eastern pathway toward Mayo Creek (in both the shallow and deep zones) and larger-scale groundwater flow directions in the area beyond the site.	Resolved for audit	<p>Provide evaluation of groundwater flow patterns east of the VCSNS Units 2 and 3 site up to and beyond Mayo Creek utilizing available topographic, geologic, and any existing well data for initial response to this information need. Confirmatory hard data to follow (potential new wells for monitoring).</p> <p>Provide estimated travel times in the saprolite and bedrock to potential receptors based on evaluation above. Provide similar evaluation for the western pathways.</p> <p>Provide rationale for selection of conservative value of hydraulic conductivities (saprolite and bedrock.)</p>	Provide response by 6/2/09
GW-4	2.3.1.2	Provide an expert to discuss occurrence of springs/seeps in the area or other features that may be indicative of groundwater flow focused in larger-scale, interconnected fractures/joints.	Resolved for audit	Provide discussion of observation of springs related to the Units 2 and 3 site area.	Provide response by 6/2/09

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Item No.	ER Section	Information Need Subject	Status of Information Need	SCE&G Follow Up Action	Approximate Time Frame and Manner for Follow Up
GW-5	2.3.2.1	Provide an expert to describe private and public wells and groundwater use surrounding the site.	Resolved for audit	Provide information on distances, pumping rates and depths of public supply wells. Coordinate with NRC as necessary to facilitate information sharing between the State and applicant. Provide information regarding nearby private wells (distances, pumping rates, and depths if available).	TBD
GW-6	4.2.2 and 5.2.2	Provide an expert to describe future groundwater use predicted for the area surrounding the site.	Resolved in discussions and information presented at audit	None at this time	NA
GW-7	2.3.3.2	Provide an expert to describe baseline groundwater quality at the site along with spatial and temporal changes.	Resolved for audit	Update Table 2.3-36 to add a column to provide a comparison of groundwater quality data including standards. Provide HPP-1022, HPP-1023, and HPP-1024 (groundwater monitoring plans) Provide letter from applicant to DHEC, and response letter from DHEC dated January 11, 2007 that discusses condensate polisher resin disposal. Provide tritium trend plots for groundwater measurements. Update discussion of tritium value reported at Old Nuclear Training Center (ER 2.3.3.2)	Provide response by 5/7/09

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GW-8	2.3.3.2 and 4.2.3.2	Provide an expert to describe the condensate polisher resin disposed at the site in the past and its impact on the groundwater quality, the potential impact on groundwater during construction activities at the site (e.g. enhanced recharge due to water application during excavation / dust control), and plans for removal of the contaminated soil.	Resolved in discussions and information presented at audit	None (addressed in GW-7 request for correspondence)	NA
GW-9	4.2.1,	Provide an expert to describe the impact on site groundwater flow rates and directions from construction activities (e.g. site grading, fill material hydraulic properties, and filling in eastern portion of site for cooling towers) and operations.	Resolved for audit	Provide discussion of how excavation, placement of backfill, construction of stormwater ponds grading, ground surface cover will impact ground water levels and groundwater flow direction.	Provide response by 5/15/09
GW-10:	4.2.2.2 & 5.2.2.2	Provide an expert to describe the extent of dewatering activities (i.e. locations, rates, duration) that could be conducted at the site during construction and operation. This description should include a description of dewatering/pumping that is occurring at Unit 1.	Resolved for audit	Provide description of process of excavation planning and permitting related to dewatering during Units 2 and 3 construction, including Unit 1 construction dewatering experience.	TBD

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GW-11	6.3 and 6.6	Provide an expert to describe groundwater monitoring (hydrological and chemical) during the construction and operational periods and provide copies of any correspondence with regulatory agencies regarding monitoring requirements.	Resolved for audit	<p>Update ER Figure 6.3-1 to show existing preconstruction monitoring wells that will remain for construction and pre-operational.</p> <p>Provide confirmatory statement that additional GW monitoring wells will be installed by the applicant in accordance with DHEC and NRC regulations and NEI 07-07.</p> <p>Provide confirmatory statement that groundwater monitoring will be conducted under the Unit 1 Groundwater Monitoring Plan which will be updated in accordance with permitting requirements.</p> <p>Provide HPP-1022, HPP-1023, and HPP-1024 (groundwater monitoring plans)</p>	Provide response by 5/12/09
LU-		Land Use	Completed, Closed Out with SCE&G Thurs 3/12/09		
LU-1	2.2.1.1	<p>Provide an expert to discuss subsurface mineral rights at the site including the following:</p> <ul style="list-style-type: none"> • Current ownership and disposition of subsurface rights. • Mining industry context for the area, given history as a significant blue marble production region. 	Resolved in discussions.	None	NA

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Item No.	ER Section	Information Need Subject	Status of Information Need	SCE&G Follow Up Action	Approximate Time Frame and Manner for Follow Up
LU-2	2.2.2.2	Provide an expert to discuss proposed transmission facilities including the following: <ul style="list-style-type: none"> • Expected routing of any new transmission corridors. • Expected termination points and any intermediate substations. • Land resource jurisdictions expected to be impacted by transmission line routing • Local or regional land use plans affecting corridor siting. • Laws and ordinances governing the siting of transmission facilities 	Resolved. Information for all LU-2 bullets provided in SCEG and Santee-Cooper T-line siting studies	None	NA
LU-3	Tables 2.2-1 – 2.2-4	Provide an expert to discuss the data sources and methods used including the following: <ul style="list-style-type: none"> • Basis for the use of EPA 1994 as the source for land use and land cover information • Quantification of the acreage of wetlands expected to be impacted in proposed or expanded transmission corridors 	Resolved for audit. Applicant agreed to use more recent available LU/LC data and update land use figures and tables.	Provide updated land use information, figures, and tables using more recent LU/LC data (see ESRP guidance).	Provide response by 5/7/09
LU-4	3.9.1	Provide an expert to discuss excavation, trenching, grading, dredging, spoils disposition and excess fill material including the following: <ul style="list-style-type: none"> • Volumes of spoils and excess fill expected to accumulate from planned earthwork remaining after construction is completed • Planned disposition of unused spoils and excess fill material 	Resolved for audit.	Provide dredging volumes data for intake & discharge, and total spoils volume for the site.	Provide response by 5/21/09

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LU-5	3.1 3.7 4.1.1 4.1.2	Provide an expert to discuss the following: <ul style="list-style-type: none"> • Land use impacts observed during the Unit 1 construction. • Aerial photography of the Unit 1 construction • Transmission line construction impacts associated with Unit 1 construction 	Resolved through discussions; aerial photos to be provided	Provide representative aerial photography during Unit 1 construction, including southward views from existing powerblock.	Provide response by 5/7/09
MET-		Meteorology/Air Quality	Completed, Closed Out with SCE&G Friday 3/13/09		
Met-1	2.7, 4.4.1.3, and 5.8.1.2.	Provide an expert to discuss meteorology and air quality.	Resolved for audit	Provide 2007 and 2008 met tower data for both Unit 1 and Units 2 & 3 met towers. Provide citable reference listing nearby (~5 miles) facilities with air quality permits.	Unit 2 2007 electronic data files sent 4/23/09 (NND-09-097). 2008 data to be sent before COLA rev 1 (July 2009)
Met-2	2.7.5 and 6.4	Provide an expert to discuss meteorology monitoring. This should include a tour of the meteorological equipment, and, if possible, a meeting with staff that operate and maintain the meteorological equipment. This should also include an opportunity to review the instrument maintenance records.	Resolved through discussions, tours, and review of calculation packages during audit.	None	NA
Met-3	5.3.3	Provide an expert to discuss the cooling system to aid our evaluation of cloud formation from the cooling towers.	Resolved for audit	Make available SACTI calculation package for review	See Met-5
Met-4	4.4.1.2, 5.3, 5.8.1.1	Provide an expert to discuss the noise associated with both construction and operation.	Resolved through discussions.	None	NA

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Met-5	2.7 and 5.3.3	Provide access to electronic copies of input and output files for PAVAN, XOQDOQ, SACTI, and calculation packages (Sections 2.7 and 5.3.3).	Resolved for audit	Provide input and output files for PAVAN, XOQDOQ, SACTI. Make available calculation packages for review	Calculation packages will be made available in reading room approximately by 5/22/09 Input and Output files will be provided to NRC by 4/30/09
NP-		Need for Power	Completed, Closed Out with SCE&G Friday 3/13/09		
NP-1		<p>Provide an expert on the need for power for SCEG, Santee Cooper, VACAR, and the SERC region. This expert should be able to:</p> <ul style="list-style-type: none"> • Make available <ul style="list-style-type: none"> ○ The two most recent annual plans for Santee Cooper. ○ The most recent update to the Certificate of Public Convenience and Necessity (CPCN) application ○ a list of state statute or regulatory provisions for the state owned utility, and describe differences from the investor owned utility (ex. Does the state issue any directives or orders pertaining to the annual plan? What are the fundamental differences between the two such as reserve margin or load sharing agreements? etc). ○ information regarding all known planned decommissioning activities • Participate in discussions with: <ul style="list-style-type: none"> ○ representatives from the State Public Service Commission, and/or appointed staff who can address jurisdictional differences between Santee Cooper as a state owned utility & SCEG as IOU. 	NP-1 bullets resolved for audit through discussions with SCANA and Santee Cooper, citations for key documents,	<p>See ALT-1 re revision of purpose and need in Chapter 1</p> <p>Santee Cooper to provide six Board Resolutions regarding resource planning and approval.</p>	Provide response by 5/1/09

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		<ul style="list-style-type: none"> ○ representatives from the State Public Utility Commission and/or appointed staff who can address how the CPCN application takes into account 45% ownership from Santee Cooper and 55% ownership from SCEG for the total capacity of a two unit facility (2200 MW(e)), and how the need for power is based only on the SCEG forecast. ● Describe <ul style="list-style-type: none"> ○ regional transmission and the regional interties that may impact the VACAR/SERC transmission constraints at the expected capacity and voltage for the proposed project. (e.g., Santee Cooper indicated limited transmission capability in the 600+MW range, but intends to 'own' approximately 1,000 MW from the proposed project, Section 8.2.6). ○ wholesale power commitments (firm, non-firm, in area or in sub-region, etc) ○ the relationship between the identified capacity from ER Table 8.2-1 and the capacity additions as listed in ER Section 8.2.5 and whether there are any discrepancies between the two. ○ PURPA qualifying entities including capacity ○ how much purchased power is firm capacity. Is this all peaking or intermediate capacity? ○ any joint ventures or Request For Proposals (RFP) for capacity additions and available capacity. ○ why the RFP for power purchasing issued by SCEG was pulled and the expected duty cycle? 			

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		<ul style="list-style-type: none"> ○ all known current or projected non-regulated capacity and capacity factors in the regional power pool and how they contribute to current or expected power purchase agreements and potential available reserve margin. ○ Any regulatory provisions which would limit the use of PPA's ○ Any known price and rate structure analysis (ex. Price elasticity in the region and impact to demand). ○ potential impacts to pumped storage capacity and supply due to the proposed project ○ Industrial growth in the region as impacting current power supply. ○ How the demand forecast is validated (e.g., Does the peak demand forecast compare favorably to the energy demand forecast; do the rolled up normalized hourly forecasts match the monthly forecasts? Are these done independently?) ○ How differences in demand growth (the ER timeframe vs. 2008 annual reports) might influence when new capacity is brought on-line. (e.g., Would lower growth push out the Pee Dee start up date?) ○ the age and duty cycles for Santee Cooper existing capacity 			
SE-		Socioeconomics	Completed, Closed Out with SCE&G Thurs 3/12/09		
SE-1	2.5.4	Provide an expert to discuss the search for environmental justice documentation including:	Resolved for audit; full section revision needed.	Revise ER Section 2.5.4.	TBD

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		<ul style="list-style-type: none"> • Application of guidance discussed in the Commission's decision to grant the ESP permit at the North Anna site, calling for greater detail of analysis in cases where either the low-income or minority population in the impacted area exceeds by more than 20 percent the State or the County minority or low-income population or where the minority or low-income population percentage in the impacted area exceeds 50 percent.. • The search for information about any special resource dependencies or practices such as informal pine straw gathering or subsistence fishing. • Organizations contacted in this regard. 			
SE-2	2.5.1.1	Provide an expert to discuss SCE&G's survey of the transient population including the following: <ul style="list-style-type: none"> • Data collected by the survey. • Basis for conclusions on the number of transients within 10 miles of the plant. 	Resolved for audit. Applicant believes information is referenced in FSAR Sec 2.1.3.	Add reference in ER text.	Provide response by 5/1/09

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SE-3	2.5.2.3. 4 10.4.1. 5 5.8.2.2. 2	Provide an expert to discuss utility property taxes paid to jurisdictions including the following: <ul style="list-style-type: none"> • Historical payments to counties, cities or other taxing authorities. • Financial incentives being offered to the applicants by taxing authorities. • Santee-Cooper's tax obligations, if any. • Projected tax payments to local and State jurisdictions. 	Resolved for audit. Resolved for audit; Inducement Resolution (mechanism for negotiating tax burden on new plants) is needed; not publicly available at present. Resolved for audit. Resolved for audit.	SCE&G and Santee Cooper to provide 10 years of information regarding VCSNS Unit 1. SCE&G to provide information. Santee Cooper to provide information. SCE&G to provide information.	Provide response by 5/15/09
SE-4	Table 2.5-15	Provide an expert to discuss overnight camping resources in the region including the following: <ul style="list-style-type: none"> • Data sources used to compile the table • Overnight capacity in terms of number of campsites 	Resolved for audit	Revise table to include requested information.	Provide response by 5/7/09

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Item No.	ER Section	Information Need Subject	Status of Information Need	SCE&G Follow Up Action	Approximate Time Frame and Manner for Follow Up
SE-5	3.1 Table 4.4-5	Provide an expert to discuss construction workforce assumptions including the following: <ul style="list-style-type: none"> • Basis for assumptions about skilled and managerial labor supply locations • Basis for assumptions used in reference to worker relocations and commuting • Anticipated overtime wage assumptions 	Resolved for audit.	Provide non-proprietary information.	Provide response by 5/19/09
SE-6	4.4.2.2. 4	Provide an expert to discuss the workforce transportation analysis assumptions including the following: <ul style="list-style-type: none"> • Sources for the SCDOT assumptions used. • The impact expected under the case of 2 or 3 shifts, as opposed to the four-shift scenario reported. 	Resolved for audit.	Revise ER Section 4.4.2.2.4 to clarify and add references.	Provide response by 5/7/09
SE-7	3.1 5.8.1.3 4.4.2.2. 5	Provide an expert to discuss the following: <ul style="list-style-type: none"> • Expected impacts to visual resources • Artist renderings and viewshed analysis • Cooling plume visibility 	Resolved for audit	Provide artist's rendering of cooling plume. <i>Comment: base rendering on mean values from plume rise model (SACTI).</i>	Provide response by 5/19/09
SE-8	4.4.2.2. 1	Provide an expert to discuss construction expenditure assumptions including the following: <ul style="list-style-type: none"> • Expected purchasing patterns in direct support of construction activities. • In-region versus out-of-region construction expenditures. 	Resolved for audit	SCE&G to provide requested information.	Provide response by 5/21/09

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Item No.	ER Section	Information Need Subject	Status of Information Need	SCE&G Follow Up Action	Approximate Time Frame and Manner for Follow Up
SE-9	5.8.2.2.1	Provide an expert to discuss operations expenditure assumptions including the following: <ul style="list-style-type: none"> • Expected purchasing patterns in direct support of operations activities. • In-region versus out-of-region operations expenditures. 	Resolved for audit	SCE&G to provide requested information.	Provide response by 5/21/09
SE-10	5.8.2.1	Provide an expert to discuss the application of Regional Input-Output Modeling system (RIMS II) multipliers including the following: <ul style="list-style-type: none"> • Documentation provided from Bureau of Economic Analysis (BEA) for the specific application of multipliers for this analysis. • Any local factors complicating standard multiplier analysis. 	Resolved for audit	Provide qualitative discussion of local economic structure	Provide response by 5/7/09
T-		Transportation	Completed, Closed Out with SCE&G Friday 3/13/09		
T-1	5.11.2.1	Provide access to electronic copies of RADTRAN input and output files.	Resolved for audit.	Provide RADTRAN input and output files.	Input and Output files will be provided to NRC by 4/30/09.
T-2	5.11.2.2	Provide access to electronic copies of TRAGIS output files for the transportation analyses presented in the ER. This includes routes associated with the Summer site and the alternative sites.	Resolved for audit.	Provide TRAGIS output	Output files will be provided to NRC by 4/30/09

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Item No.	ER Section	Information Need Subject	Status of Information Need	SCE&G Follow Up Action	Approximate Time Frame and Manner for Follow Up
T-3	N/A	Provide access to documentation or an individual knowledgeable about the anticipated inventory of so called 'Clinch River Unidentified Deposits' (CRUD) on the external surfaces of spent fuel assemblies. The information is needed to evaluate an issue that was unresolved in the previous ESP analyses (NUREG-1811, NUREG-1815, and NUREG-1817) about a lack of a CRUD source term for advanced LWR fuel assemblies. (NOTE: The previous ESP analyses were used as models for the transportation impact analyses in the VCSNS ER).	Resolved for audit.	Identify the source of information from Westinghouse on the CRUD activity on AP1000 fuel assemblies (no reference provided in ER)	Provide response by 5/7/09 Calculation will be provided to reading room by 5/22/09.