

November 27, 2006

Mr. J. A. "Buzz" Miller, Senior Vice President  
Nuclear Development  
Southern Nuclear Operating Company, Inc.  
40 Inverness Center Parkway  
P.O. Box 1295  
Birmingham, AL 35201

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION LETTER NO. 1 - SOUTHERN  
NUCLEAR OPERATING COMPANY EARLY SITE PERMIT (ESP)  
APPLICATION FOR THE VOGTLE ESP SITE

Dear Mr. Miller:

By letter dated August 14, 2006, Southern Nuclear Operating Company (SNC) submitted its application for an early site permit (ESP) for the Vogtle ESP site.

The Nuclear Regulatory Commission (NRC) staff is performing a detailed review of the Site Safety Analysis Report in your ESP application and has identified that additional information is needed to continue portions of the review. The topics covered in the requests for additional information (RAIs) contained in Enclosure 1 are related to quality hydrology and assurance.

Both the RAIs for hydrology and quality assurance were sent to you via electronic mail on October 13, 2006, and November 1, 2006. The staff also conducted a teleconference with your staff on November 1, 2006, to discuss the RAIs associated with quality assurance.

Receipt of requested information within 30 days of the date of this letter will support the NRC's efficient and timely review of SNC's ESP application. Please note that failure to provide a response in a timely fashion may result in a delay of completion of the staff's safety evaluation report.

J. A. "Buzz" Miller

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If you have any questions or comments concerning this matter, you may contact me at (301) 415-3637 or [cja2@nrc.gov](mailto:cja2@nrc.gov).

Sincerely,

**/RA/**

Christian Araguas, Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-011

Enclosure: As stated

cc: See next page

J. A. "Buzz" Miller

-2-

If you have any questions or comments concerning this matter, you may contact me at (301) 415-3637 or [cja2@nrc.gov](mailto:cja2@nrc.gov).

Sincerely,

**/RA/**

Christian Araguas, Project Manager  
AP1000 Projects Branch 1  
Division of New Reactor Licensing  
Office of New Reactors

Docket No. 52-011

Enclosure: As stated

cc: See next page

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Vogtle Electric Generating Plant

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**VOGTLE EARLY SITE PERMIT APPLICATION  
 SITE SAFETY ANALYSIS REPORT (SSAR)  
 REQUEST FOR ADDITIONAL INFORMATION (RAI)  
 RAI TABLE NO. 1**

<b>RAI Number</b>	<b>Reviewer</b>	<b>Question Summary</b>	<b>Full Text</b>
The staff conducted its review in accordance to the provisions of Review Standard (RS) -002, "Processing Applications for Early Site Permits," Section 2.4, "Hydrology."			
2.4.1-1	Bagchi, G. Ahn, H. See, K. R.	Please provide background and modeling data to prepare Section 2.4, "Hydrology."	<p>In order for the staff to perform a confirmatory analysis, provide the following background materials and modeling data which were created and used to prepare Section 2.4 of the Vogtle ESP application:</p> <ul style="list-style-type: none"> <li>(a) Digital maps including topography, bathymetry, land use, soil, and water use.</li> <li>(b) Hydrologic features (e.g., location, geometry, and cross section, if applicable) of rivers, canals, dams, reservoirs, etc.</li> <li>(c) Hydrologic time series data, including stages, flows, groundwater heads, and hydrometeorologic data.</li> <li>(d) Modeling data (HEC1, HEC-RAS, and NWS DAMBRK, etc.) including input and output data. In addition, identify the codes used, and provide any codes that are not publicly available.</li> <li>(e) Brief descriptions of the items provided in response to subsections (a) through (d).</li> </ul>

RAI Number	Reviewer	Question Summary	Full Text
<p>The staff conducted its review in accordance to the provisions of Review Standard (RS) -002, "Processing Applications for Early Site Permits," Section 17.1.1, "Early Site Permit Quality Assurance Measures."</p>			
17.1-1	Prescott, P. Concepcion, M.	Please identify the organizations that will perform QA activities.	<p>SSAR NDQAM Part 2 Section 1 - Organization</p> <p>Section 17.1.1 of RS-002, paragraph 1.A., states that the organization description and charts of the lines, interrelationships, and areas of responsibility and authority for all organizations performing quality-related activities, including the applicant's organization and principal contractors, are provided. Section 1 of the NDQAM describes the organizations that will be responsible for the development of information that will support the ESP application. The plan explains the specific tasks that organizations and individuals will be performing that relate to ESP activities, and also states that "certain common elements, procedures, and organizations described in this NDQAM exist for currently operating SNC nuclear plants." However, the section does not clearly describe the interface between existing organizations that will perform QA activities in support of the ESP application who also perform QA activities under existing QA programs. Identify the organizations that will perform QA activities under the NDQAM, the existing operations QA program, or under both QA programs.</p>

RAI Number	Reviewer	Question Summary	Full Text
<p>The staff conducted its review in accordance to the provisions of Review Standard (RS) -002, "Processing Applications for Early Site Permits," Section 17.1.1, "Early Site Permit Quality Assurance Measures."</p>			
17.4-1	Prescott, P. Concepcion, M.	Please clarify if the proposed quality assurance review of procurement documents is still performed.	<p>SSAR NDQAM Part 2 Section 4 - Procurement Document Control</p> <p>Section 17.1.1 of RS-002, paragraph 4.B., states that provisions exist for review and approval of procurement documents for ESP activities that would affect SSCs important to safety. Section 4.2 of the NDQAM establishes a commitment to NQA-1-1994, Basic Requirement 4 and Supplement 4S-1, and includes clarifications and exceptions to these requirements. As an exception, SNC proposes that "the quality assurance review of procurement documents is satisfied through review of the applicable procurement specification, including the technical and quality procurement requirements, prior to bid or award of contract." This exception does not specify if procurement documents as well as changes to procurement documents will be part of the proposed quality assurance review. Clarify if the proposed quality assurance review of procurement documents is still performed.</p>
17.6-1	Prescott, P. Concepcion, M.	Please discuss how SNC plans to control the distribution of new and revised documents.	<p>SSAR NDQAM Part 2 Section 6 - Document Control</p> <p>Section 17.1.1 of RS-002, paragraph 6., states that provisions exist to ensure that documents related to ESP activities that would affect SSCs important to safety, including changes, are reviewed for adequacy, approved for release by authorized personnel, and distributed and used at the location where the prescribed activity is performed. Section 6 of the NDQAM does not provide guidance for controlling the distribution of new and revised documents, including superseded documents, to preclude the possibility or use of inappropriate documents. Discuss how SNC plans to control the distribution of new and revised documents consistent with Section 17.1.1 of RS-002.</p>