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Date: 4/24/2007 1:43:49 PM
Subject: Distribution of Letter: Request for Additional Information - Vogtle

To: J.A. "Buzz" Miller

From: James E Lyons

Subject: Request for Additional Information (RAI) regarding the Environmental Portion of the Early Site Permit (ESP) Application for the Plant Vogtle Site TACNo. MD3010) and Possible Schedule Revision

Dated: 4/20/2007

Hearing Identifier: Vogtle_Non_Public
Email Number: 3767

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Subject: Distribution of Letter: Request for Additional Information - Vogtle
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Concealed Subject: No
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April 20, 2007

Mr. J.A. “Buzz” Miller
Senior Vice President, Nuclear Development
Southern Nuclear Operating Company
40 Inverness Center Parkway
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Birmingham, AL 35201

SUBJECT: REQUEST FOR ADDITIONAL INFORMATION (RAI) REGARDING THE ENVIRONMENTAL PORTION OF THE EARLY SITE PERMIT (ESP) APPLICATION FOR THE PLANT VOGTLE SITE (TAC NO. MD3010) AND POSSIBLE SCHEDULE REVISION.

Dear Mr. Miller:

The U.S. Nuclear Regulatory Commission (NRC) staff has reviewed the responses provided by Southern Nuclear Operating Company (SNC), dated January 31, 2007, to the staff’s RAIs, dated December 29, 2006, concerning an ESP for the Plant Vogtle ESP site. We have identified areas where additional information is needed to clarify SNC’s responses and to address staff questions about new information, analyses, and data received from SNC. Enclosed is the staff's second round of environmental RAIs for the Plant Vogtle ESP application.

As you are aware, the NRC’s target date for issuance of the Draft Environmental Impact Statement (DEIS) for the Plant Vogtle ESP has been changed from July 6, 2007 to August 3, 2007, due to funding issues. However, our review schedule did not account for this additional round of RAIs, and there will be additional schedule impact. As discussed during the April 16, 2007 telephone call between Mr. Charles Pierce of your staff and Stephanie Coffin and Brent Clayton of the NRC staff, we will have further dialogue with you to establish the new schedule. We request that you provide your responses to this second round of RAIs no later than May 16, 2007.

If you have any questions, please contact Mark D. Notich, the Environmental Project Manager for the Vogtle ESP application, at (301) 415-3053, or me at (301) 415-3050.

Sincerely,

/RA/

James E. Lyons, Director
Division of Siting and Environmental Reviews
Office of New Reactors

Docket No.: 52-011

Enclosure:
As stated

cc w/encl: See next page

If you have any questions, please contact Mark D. Notich, the Environmental Project Manager for the Vogtle ESP application, at (301) 415-3053, or me at (301) 415-3050.

Sincerely,

/RA/

James E. Lyons, Director
Division of Siting and Environmental Reviews
Office of New Reactors

Docket No.: 52-011

Enclosure:
As stated

cc w/encl: See next page

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OFFICE	DD:DRNL	DD:DSER
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DATE	04/20/07	04/20/07

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Request for Additional Information from the Southern Nuclear Operating Company concerning the Environmental Report for the Vogtle Electric Generating Plant Early Site Permit

Section numbers refer to the applicant's environmental report (ER) for the early site permit (ESP). Unless otherwise stated, the request for additional information (RAI) reference number (for example, E2.4-2g) refers to the NRC's letter to Southern dated December 29, 2006.

Section 2.3 Hydrology

E2.3-2 **Section 2.3.1.2 Groundwater Resources, Section 2.3.1.2.2 Local Hydrogeology, Section 2.3.1.2.4 Hydrogeologic Properties**

a. Provide the Georgia Power (1985) document referenced in the RAI response.

b. Elaborate on the RAI response that summarizes Summerour et al. (1998) as stating "none of the faults identified in their seismic surveys appear to have disrupted the Gordon aquitard (Blue Bluff Marl), which isolates the unconfined aquifer from underlying confined aquifers." In fact, this summary statement by the applicant contradicts the following statements of Summerour et al. (1998, page 51), contained in the same document:

1. "Whether the Pen Branch fault cuts the Gordon aquitard in the study area, remains uncertain."

2. "It is unclear whether the fractures also cut the Gordon aquitard. The large number of fractures and the fact that they appear to cut most of the aquitards in the stratigraphic sequence suggests that there may be leakage between aquifers near the Pen Branch fault. Therefore, both the Pen Branch fault and the associated fracture system may provide pathways…from the Upper Three Runs aquifer into deeper, normally confined aquifers."

Section 2.4 Ecology

E2.4-1b **Sections 2.4.1 Terrestrial Ecology, 4.3.1 Terrestrial Ecosystems** The following questions pertain to the wetland delineation report submitted with the RAI responses:

a. Provide the methodology for determining which areas onsite were surveyed for wetlands. For example, it appears the small stream that flows into Mallard Pond from the spring originating in Utley Cave was not surveyed. Will this stream be impacted by dewatering? In addition, the disturbance area figure provided in the RAI response delineates several small basins near the southern temporary construction area (between retention ponds 1 and 2), but these are not depicted on any of the

wetlands maps. Please explain if these areas were included in the wetlands survey, i.e., were they evaluated and determined to be non-jurisdictional?

b. Mallard Pond is included in the jurisdictional waters GIS data included in Enclosure 3, but it is not identified as a jurisdictional wetland, or even mentioned in the wetland delineation report. Was Mallard Pond evaluated for jurisdictional status, and if so, what was the result of that evaluation?

c. The wetlands delineation "GIS" data provided in Enclosure 3 was output from a CAD system rather than a GIS system; are these data geo-referenced, and if so, what is the coordinate system, datum, etc.?

E2.4-2g **Section 2.4.1 – Terrestrial Ecology and 4.3 Terrestrial Ecosystems** Provide a copy of the referenced report (2000 GPC Transmission line T&E survey report).

E2.4-2h **Section 2.4.1 – Terrestrial Ecology and 4.3 Terrestrial Ecosystems** Provide a copy of the red-cockaded woodpecker safe harbor agreement application as soon as it is finalized.

E2.4-3 **Section 2.4.2 – Aquatic Ecology** Provide copies of the following reports:

- Matthews, R.A., and C.F. Muska. 1983. Shortnose and Atlantic sturgeon in the Savannah River. DPST-83-753. E. I. du Pont de Nemours and Company, Aiken, South Carolina.

- Paller, M.H., B. M. Saul, and D.V. Osteen. 1986. Distribution and Abundance of Ichthyoplankton in the Mid-Reaches of the Savannah River and Selected Tributaries. Prepared by Environmental and Chemical Sciences, Inc., for Savannah River Laboratory, E. I. du Pont de Nemours and Co., Aiken, S.C.

- Wiltz, J. 1981. Savannah River Fish Population Study and Impingement Prediction for Plant Vogtle, Burke County, Georgia. Report to Georgia Power Co.

Section 2.5.3 Historic Properties

E2.5-3 **Section 2.5.3 Historic Properties, Section 4.1.3 Historic Properties, and Section 5.1.3 Historic Properties and Cultural Resources** In response to RAI E2.5-2, SNC stated that further documentation from the Georgia SHPO has been delayed pending resolution of COL-related issues. What new issues have arisen? With respect to the proposed intake structure, what new modifications have been proposed? A change in SNC's project plan could significantly affect the staff's impact assessment in the Vogtle ESP environmental impact statement.

Please provide any and all correspondence to or from the Georgia SHPO pertaining to the protection of significant cultural resources at the Vogtle site not previously provided to the NRC. In particular, please provide the SNC response to the Georgia SHPO committing SNC to address the recommendations in the SHPO October 4, 2006, letter and committing to protective measures for 9BK416 and 9BK423.

Section 3.9 Pre-Construction and Construction Activities

E3.9-3 **Section 3.9.2.7 Clearing, Grubbing, and Grading** The borrow areas for this project are not identified either on the disturbance footprint figure referenced in this response, or in the GIS data included in Enclosure 3. In addition, the borrow areas are not included in the 500 acre estimate for disturbance (E4.3-1c). Please clarify.

E3.9-4 & 3.9-5 **Sections 3.9.2.9 Docking and Unloading Facilities Installation and 3.9.2.10 Intake/Discharge Coffer Dams and Piling Installation and other portions of 3.9.2** The response for E3.9-4 suggests that 300 cubic yards of sediment will be dredged to construct the barge slip, intake structure, and discharge structure. The response to E3.9-5 states that there will be 300 cubic yards of dredge material from just the barge slip. Please clarify the total volume to be dredged, and indicate if any will come from the intake and discharge structures.

Section 4.2 Water-Related Impacts

E4.2-1 **Section 4.2.2 Water Use Impacts (Construction)**

a. Provide the Bush (1974) document referenced in the RAI response.

b. The applicant states in the RAI response that the water surface elevation of the pond will not fall below the entrance elevation of the standpipe (i.e., water will never cease to be discharged from Mallard Pond). Please state what the minimum outflow discharge from Mallard Pond is expected to be during future construction activities.

Section 4.3 Ecological Impacts

E4.3-1c **Section 4.3.1 Terrestrial Ecosystems** This response identifies 25.7 acres of habitat will be removed onsite for the new 500 KV transmission line. This acreage is not identified on the disturbance figure provided in the RAI response. Is the route onsite known? If so, provide information on the location and types of habitats that will be removed for this line onsite.

Section 4.4 Socioeconomic Impacts

E4.4-3 **Section 4.4.2 Social and Economic Impacts** In the original RAI, the staff requested the Bechtel report associated with Table 4.4.2-1 of the Report ER. The response to this RAI from SNC contained data that may or may not have been from the Bechtel report, as it did not reference the Bechtel report. Provide the Bechtel report or the documents that were used to develop the information in Table 4.4.2-1 of the ER.

Section 4.5 Radiation Exposure to Construction Workers

E4.5.2-2 **Sections 4.5.2.2 Gaseous Effluents and 4.5.2.3 Liquid Effluents** In response to this question, SNC states that "Section 4.5 has been revised in January 2007 to report annual effluent release values for the year 2002." However, in the revised ER Section 4.5 (Attachment 1 to January 30, 2007 letter), SNC uses 2002 data for gaseous effluents and 2001 data for liquid effluents. Justify why SNC did not use liquid effluent data from 2002, as stated in response to this RAI question.

E4.5.3-1 **Section 4.5.3.1 Direct Radiation** In response to this question, SNC uses TLD data from the Farley ISFSI to project dose rates for the Vogtle ISFSI. SNC uses TLD data from the second half of 2005 to estimate an annual dose at 300 feet from the Vogtle ISFSI of 7.5 mrem from three casks. SNC then states that the expected annual dose from six casks would be double this number, or 15 mrem. In the response, SNC states that the initial loading date for the ISFSI may be advanced from the initial loading date of 2014 to 2012, and that, if this date is used, 12 casks would be placed in service by July 1, 2013, and 18 casks by July 1, 2015.

As such, there are additional uncertainties associated with these analyses, and the results may or may not be conservative. First, SNC raises the possibility that an alternative underground cask design may be utilized that would significantly reduce the projected direct doses to construction workers. Second, SNC raises the possibility that a potential alternative ISFSI location would add 1000 ft between the ISFSI location and the construction workers, also reducing the projected direct doses to construction workers. A third uncertainty is the construction initiation date that, as stated in ER Section 3.9, could be as early as 2010 or as late as 2032. ER Section 3.9 states that the ER is written broadly enough to be applicable over this range of construction initiation dates; however, this is not the case for construction worker direct doses resulting from the ISFSI. Later construction initiation dates could result in a significantly greater cask load than projected in the analyses (i.e., 6 casks) or even as requested here (i.e., analyses for up to 18 or more casks). Because it appears that the Vogtle ISFSI may be loaded with more than six casks during the time period when site preparation workers are on site, provide an estimate of the ISFSI dose rate to these workers when the ISFSI is loaded with 12, 18, or more casks (the number of casks in the ISFSI would be dependent on the loading schedule for the ISFSI and the construction schedule for Units 3 and 4).

E4.5.3-2 **Section 4.5.3.1 Direct Radiation** In response to this question, SNC uses TLD data from 2003 to establish the estimated direct radiation dose to construction workers.

a. Using comparisons with other years for which this data is available, justify why SNC selected 2003 as the representative year to use for estimating direct radiation dose to construction workers.

b. In the response, SNC provides a table of TLD readings from six TLDs for the first and second halves of 2003. Although the TLD readings for the first half of 2003 were made when Vogtle had an average capacity factor of 99.95 percent, the plant average capacity factor for the second half of 2003 was only 90.13 percent, for an average capacity factor of 95 percent for 2003. Provide the estimated annual direct dose contribution to construction workers based on a 100 percent plant capacity factor.

c. The occupational exposure time used in the Vogtle ER, Section 4.5.4, was reduced from 2080 hr/yr in ER Revision 0 to 2000 hr/yr in SNC's response to RAI's, Attachment 1, Revision to Environmental Report 4.5, dated January 30, 2007. An occupational exposure time of 2080 hr/yr was used in ESP applications for other sites and has been found appropriate for converting annual dose to expected annual worker dose. Please provide support for selecting an exposure time of 2000 hr/yr.

E4.5.3-3. **Section 4.5.3.1 Direct Radiation** The SNC response assumes the direct radiation dose from Units 1 and 2 will be representative of the direct radiation dose from Unit 3 to the Unit 4 construction workers. Section 4.5 of the ESRP (NUREG-1555, p. 4.5-5) guides the reviewer to verify that radiation source strengths associated with adjacent nuclear facilities have been accurately predicted. Please provide support for this assumption, i.e., that the direct radiation dose from Units 1 and 2 is representative of the direct radiation dose from an operating Unit 3 to the Unit 4 construction workers. This support may include, but is not limited to, comparison to plant-specific design information (i.e., AP1000 design control document), comparison to data from plants with design similar to the proposed AP1000, or results of new calculations.

E4.5.4-1 **Section 4.5.4.2 Gaseous Effluents** In the revised version of ER Section 4.5 (Attachment 1 to January 30, 2007 letter), there are several places where "TBD" (to be determined) is listed in place of actual dose or dose rate values. Provide these values, or state when these missing values will be provided.

E4.5.4-2 **Section 4.5.4.4 Total Doses** In the revised version of ER Section 4.5 (Attachment 1 to January 30, 2007 letter), there are several places where "TBD" (to be determined) is listed in place of actual dose or dose rate values. Provide these values, or state when these missing values will be provided.

Section 5.2 Water-Related Impacts

E5.2-1 **<u>Section 5.2.2 Water Use Impacts (Station Operation), Section 5.2.2.2 Groundwater</u>**

a. Provide the Georgia Power (1974) and Aadland et al. (1995) documents referenced in the RAI response.

b. The applicant states in the RAI response, "SNC (2005) notes that downstream of the site, the Savannah River cuts through the semi-confining unit separating the Cretaceous and Tertiary aquifers." Please confirm that the applicant meant "downstream" and not "upstream" per Clarke and West (1997, Figure 5).

c. There is an error or a typographical error in the last row and last column of Table 7 of this RAI response. The 8.8 ft drawdown appears to be incorrect. The only change in Case No. 6, as presented, is an extension of time; however, the prior presented cases (i.e., No. 1 through No. 5) illustrate a steady-state response of 1.9 ft drawdown has been reached. The applicant should review and comment accordingly.

d. Provide additional detail on the deep production wells, MU-1, MU-2A, and TW-1. The needed detail for each well includes location coordinates and datum, well log, screened interval(s) (state whether the interval is completely open, or define screened intervals if only selected intervals are open), and start of service dates.

Section 5.3 Cooling System Impacts

E5.3-2 **<u>Section 5.3.1.2 – Aquatic Ecosystems</u>** Provide copies of screen operating records, including the frequency of rotating the screens.

E5.3-4 **<u>Section 5.3.3 (Heat Dissipation Systems), Section 5.8.1.3 (Visual Intrusions)</u>** Revision 1 of the ER contains updated results from the SACTI model using additional meteorological parameters. Please provide the Revision 1 meteorological data used in the SACTI analysis.

Section 5.11 Transportation of Radioactive Materials

The following question was inadvertently omitted from NRC's December 29, 2006 letter to SNC, therefore there is no applicable RAI reference number. The issue was discussed during a November 29, 2006 conference call, during which SNC indicated it would examine the issue.

In the first three ESP EISs, the irradiated fuel source term used in the transportation impact analyses was taken from INEEL 2003, *Early Site Permit Environmental Report Sections and Supporting Documentation*. The source term for the AP1000 in INEEL 2003 included the inventories of radioactive material associated with the fuel (i.e., fission products, actinides and daughters) but no information about activation products and "crud" (i.e., deposited radionuclides on the external surfaces of fuel rods and fuel

hardware). For that reason, the NRC concluded in the three ESP EISs that "the impacts of crud and activation products on spent fuel transportation accident risks will need to be examined at the CP/COL stage." Since SNC has selected the AP1000 reactor design, please provide a complete listing of expected crud and activation product radionuclides and quantities for a typical AP1000 spent fuel assembly. Please provide the information in a form (Ci/MTU, Ci/assembly) that can be used to estimate the quantities of crud and activation product radionuclides in a single shipment.

Section 6.5 Ecology

E.6.5-1 **Section 6.5.1.2 Ecological Monitoring – Aquatic Resources** The last sentence of this response refers to studies conducted by GPC to confirm that the operation of the intake and discharge at VEGP do not significantly impact the aquatic community. Provide copies of these studies.

Section 7.2 Severe Accidents

E7.2-2 **Section 7.2.3.2 Surface Water Pathways** SNC did not provide information on surface water users outside of the Savannah River watershed but within a 50 mi radius of the Vogtle site, stating that "There is no available evidence indicating that any inter-basin transfer of surface water." The surface water pathway, as evaluated by the MACCS2 code, is an extension of the atmospheric pathway; it has no relationship to the Savannah River watershed. Please expand the ER listing of surface water users to include all major surface water users within 50 miles of the Vogtle site, to support the severe accident analysis.

Questions Regarding the Transmission Corridor Study

Note: there is no applicable RAI reference number for these questions.

1. What construction, operational and maintenance practices will be used in association with the new transmission facilities? Include information on Best Management Practices (BMPs), that will be followed during construction as well as operation and maintenance activities.

   - Describe the clearing methods; temporary and permanent erosion, runoff, and siltation control methods; dust suppression methods; and other construction practices for control or suppression specific to the transmission line corridor.

   - Describe BMPs being considered to mitigate construction activities.

   - Describe any and all maintenance practices, such as use of chemical herbicides, roadway maintenance, and mechanical clearing, that are anticipated to affect terrestrial biota.

- Describe any special maintenance practices used in important habitats (e.g., marshes, natural areas, and bogs), including those that result in unique beneficial effects on specific terrestrial biota.

- Provide the Georgia Power Maintenance Practices manual.

2. Describe cumulative impacts on “important species or habitats” related to construction of the new 500 KV transmission line.

3. Provide information on the persons and/or entities that consulted with the stakeholder group. Specifically, were USFWS and/or Georgia DNR part of the stakeholder group?

4. Provide EPRI-GTC Project Report 2006, including the appendices.

5. Provide the total acreage for the Representative Delineated Corridor. In addition, provide acreage for each of the Land Uses. This information would be similar to the information provided in Table 15 of the Corridor Study, but include the entire Representative Delineated Corridor.

6. Table 15 is a hypothetical corridor based on a 150 ft ROW. This table depicts 91 acres of forested wetland being impacted by the hypothetical ROW. This amount seems high, especially when the Georgia Siting Model value for forested wetlands plus 30 ft buffer is “9” What considerations will be used in the final preferred route selection? Will the evaluation include a similar weighting approach? Please describe the final selection process.

7. The ER (page 3.7-2) assumes a 200 ft wide ROW, but Table 15 of the Corridor Study assumes a 150 ft ROW. Please address this discrepancy.

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