

April 20, 2007

Mr. J.A. "Buzz" Miller
Senior Vice President, Nuclear Development
Southern Nuclear Operating Company
40 Inverness Center Parkway
Post Office Box 1295
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.

J.A. Miller

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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

J.A. Miller

2

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,

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As stated

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RidsNroDser (JLyons)
NChokshi
MNotich
MMasnik
CGuerrero
RidsNroDserRenv (BClayton)
CAraguas
RidsOGCMailCenter (BPoole)
MSackschewsky(PNNL)
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OFFICE	LA:DRNL/NGE1	PM:RENV:DSER	OGC/NLO	BC:RENV:DSER
NAME	SGreen	MNotich <i>BClayton for</i>	BPoole	BClayton
DATE	04/17/07	04/17/07	04/20/07	04/20/07
OFFICE	DD:DRNL	DD:DSER		
NAME	DMatthews <i>MDN for</i>	JLyons		
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

Enclosure

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 Cofferdams 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 Section 5.2.2 Water Use Impacts (Station Operation), Section 5.2.2.2 Groundwater

- 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 Section 5.3.1.2 – Aquatic Ecosystems Provide copies of screen operating records, including the frequency of rotating the screens.

E5.3-4 Section 5.3.3 (Heat Dissipation Systems), Section 5.8.1.3 (Visual Intrusions) 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.

Vogtle Electric Generating Plant
Combined Mailing List

cc:

Mr. Jeffrey T. Gasser
Executive Vice President
Southern Nuclear Operating Company, Inc.
P.O. Box 1295
Birmingham, AL 35201-1295

Mr. Louis B. Long
Vice President Technical Support
Southern Nuclear Operating Company, Inc.
P.O. Box 1295
Birmingham, AL 35201-1295

Mr. Charles R. Pierce
ESP Project Manager
P.O. Box 1295
Birmingham, AL 35201-1295

Mr. Thomas O. McCallum
ESP Project Manager
P.O. Box 1295
Birmingham, AL 35201-1295

Mr. Steven M. Jackson
Senior Engineer - Power Supply
Municipal Electric Authority of Georgia
1470 Riveredge Parkway, NW
Atlanta, GA 30328-4684

Mr. Reece McAlister
Executive Secretary
Georgia Public Service Commission
244 Washington St., SW
Atlanta, GA 30334

Dr. Carol Couch, Director
Environmental Protection Division
Georgia Department of Natural Resources
2 Martin Luther King Dr., S.E.
Suite 1152, East Tower
Atlanta, GA 30334

Mr. Adrian Heymer
Nuclear Energy Institute
Suite 400
1776 I Street, NW
Washington, DC 20006-3708

Attorney General
Law Department
132 Judicial Building
Atlanta, GA 30334

Mr. Laurence Bergen
Oglethorpe Power Corporation
2100 East Exchange Place
P.O. Box 1349
Tucker, GA 30085-1349

Arthur H. Domby, Esquire
Troutman Sanders
Nations Bank Plaza
600 Peachtree Street, NE
Suite 5200
Atlanta, GA 30308-2216

Resident Inspector
Vogtle Plant
8805 River Road
Waynesboro, GA 30830

Office of the County Commissioner
Burke County Commission
Waynesboro, GA 30830

Mr. Paul Gunter
Director of the Reactor Watchdog Project
Nuclear Information & Resource Service
1424 16th Street, NW, Suite 404
Washington, DC 20036

Mr. Russell Bell
Nuclear Energy Institute
Suite 400
1776 I Street, NW
Washington, DC 20006-3708

Mr. James Riccio
Greenpeace
702 H Street, NW, Suite 300
Washington, DC 20001

Mr. Jay M. Gutierrez
Morgan, Lewis & Bockius, LLP
1111 Pennsylvania Avenue, NW
Washington, DC 20004

Mr. Robert E. Sweeney
IBEX ESI
4641 Montgomery Avenue
Suite 350
Bethesda, MD 20814

Ms. Vanessa E. Quinn, Chief
Radiological Emergency Preparedness
Branch
Nuclear and Chemical Preparedness and
Protection Division
Department of Homeland Security
1800 South Bell Street, Room 837
Crystal City-Arlington, VA 22202-3546

Mr. Paul Leventhal
Nuclear Control Institute
1000 Connecticut Avenue, NW
Suite 410
Washington, DC 20036

Mr. David Lochbaum
Union of Concerned Scientists
1707 H Street, NW
Suite 600
Washington, DC 20006-3919

Mr. Marvin Fertel
Senior Vice President
and Chief Nuclear Officer
Nuclear Energy Institute
Suite 400
1776 I Street, NW
Washington, DC 20006-3708

Jim Davis
ESP Project Engineer
Southern Nuclear Company
Post Office Box 1295, BIN B056
Birmingham AL 35201

O.C. Harper IV
Vice President - Resources Planning and
Nuclear Development
Georgia Power Company
241 Ralph McGill Boulevard
Atlanta, GA 30308

Bentina C. Terry
Southern Nuclear Operating Company, Inc.
Bin B-022
P.O. Box 1295
Birmingham, AL 35201-1295

Director, Consumers' Utility
Counsel Division
Governor's Office of Consumer Affairs
2 M.L. King, Jr. Drive
Plaza Level East; Suite 356
Atlanta, GA 30334-4600

Resident Manager
Oglethorpe Power Corporation
Alvin W. Vogtle Nuclear Plant
Electronic Mail Distribution

Mr. Thomas P. Miller
U.S. Department of Energy
Headquarters - Germantown
19901 Germantown Road
Germantown, MD 20874-1290

J.B. Powell – State Senator
228 Church Street
Blythe GA 30805

Alberta Anderson – State Representative
414 W. 8th Street
Waynesboro, GA 30830

Jimmy Dixon – Chairman
P.O. Box 27
Girard, GA 30426

Wayne Crockett
P.O. Box 724
Waynesboro, GA 30830

Alphonzo Andrews
832 Blakeney St.
Waynesboro, GA 30830

Henry Tinley
307 Spring Valley Rd.
Waynesboro, GA 30830

Woodrow Harvey
199 Gresham Ave.
Gough, GA 30811

Merv Waldrop – County Administrator
Board Of Commissioners
P.O. Box 89
Waynesboro, GA 30830

Dub Harper – Chairman
636 Cherokee Dr.
Waynesboro, GA 30830

Jerry Long – Executive Director
241 E. 6th Street
Waynesboro, GA 30830

Jesse Stone – Mayor
642 N. Liberty Street
Waynesboro, GA 30830

Dick Byne
537 Jones Avenue
Waynesboro, GA 30830

Chick Jones
628 Myrick St.
Waynesboro, GA 30830

Curtis Bell
628 Myrick St.
Waynesboro, GA 30830

Willie Williams
628 Myrick St.
Waynesboro, GA 30830

Neal Leonard
628 Myrick St.
Waynesboro, GA 30830

Jerry Coalson – City Manager
628 Myrick St.
Waynesboro, GA 30830

John Hamilton - Mayor
P.O. Box 398
Sardis, GA 30456

Ed Grunewald – Mayor
P.O. Box 10
Girard, GA 30426

Johnny Jenkins – Chairman
114 W 6th Street
Waynesboro, GA 30830

Willie Lattimore – Vice Chairman
789 Perimeter Road
Waynesboro, GA 30830

Ella Jones – VP - Augusta Technical
College - South Campus
216 Hwy 24 South
Waynesboro, GA 30830

Rocky Sams – President
1265 Perry Avenue
Sardis, GA 30456

Ashley Long – Executive Director
241 E. 6th Street
Waynesboro, GA 30830

Elizabeth Billips
The True Citizen
P.O.Box 948
Waynesboro, GA 30830

Greg Coursey – Burke County Sheriff
225 Hwy 24 S
Waynesboro, GA 30830

Jim Whitehead – State Senator
4715 Silverlake Drive
Evans, GA 30809

Barry Fleming – State Representative
170 West Forrest Street
Harlem, GA 30814

Ben Harbin – State Representative
471 A Cox Road
Evans, GA 30809

Ron Cross – Chair -Columbia County
Commission
P.O. Box 498
Evans, GA 30809

Ed Tarver – State Senator
801 Broad Street, 7th Floor
Augusta, GA 30901

Sue Burmeister – State Representative
P.O. Box 212176
Augusta, GA 30917-2176

Earnestine Howard – State Representative
2514 Pate Avenue
Augusta, GA 30906

Quincy Murphy – State Representative
3238 Peach Orchard Road
Augusta, GA 30909

Pete Warren – State Representative
112 Bennock Mill Road
Augusta, GA 30906

Deke Copenhaver – Mayor
530 Greene Street, Room 806
Augusta, GA 30911

Betty Beard – Commissioner District 1
Augusta-Richmond County Commission
One 7th Street, Suite 1703
River Place Condos
Augusta, GA 30901

Marion Williams – Commissioner District 2
Augusta-Richmond County Commission
1941 Kratha Drive
Augusta, GA 30906

Barbara Sims – Commissioner District 3
Augusta-Richmond County Commission
10 Retreat Road
Augusta, GA 30909

Richard Colclough
Commissioner District 4
Augusta-Richmond County Commission
3508 Monte Carlo Drive
Augusta, GA 30906

Bobby Hankerson
Commissioner, District 5
Augusta-Richmond County Commission
3312 Balkcom Drive
Augusta, GA 30906

Andy Cheek, Commissioner
District 6
Augusta-Richmond County Commission
2129 Howard Road
Augusta, GA 30906

Roy Rearden, Commissioner
District 7
Augusta-Richmond County Commission
48 Eagle Pointe Court
Augusta, GA 30909

Jerry Smith – Commissioner District 8
Augusta-Richmond County Commission
1332 Brown Road
Hephzibah, GA 30815

Freddie Handy
Commissioner District 9
Augusta-Richmond County Commission
2700 Richmond Hill Road
Augusta, GA 30906

Don Grantham, Commissioner
District 10 Augusta
Richmond County Commission
808 Quail Court
Augusta, GA 30909

John Graham, Chairman
Warren County Commission
P.O. Box 46
Warrenton, GA 30828

Charlie G. Newton, IV
County Commission
McDuffie County Commission
337 Main Street
Thomson, GA 30824

Dwaine Biggerstaff, Mayor
City of Lincoln
P.O. Box 324
Lincoln, GA 30817

Robert E. Knox, Jr., Mayor
City of Thomson
228 Lee Street
Thomson, GA 30824

Fred Cavanaugh, Mayor
5 Burgundy Road
Aiken, SC 29801

Mike Sherberger, Director
OHS GEMA
P. O. Box 18055
Atlanta, GA 30316-0055

Mr. Charlie English
OHS GEMA
P. O. Box 18055
Atlanta, GA 31316-0055

Pat Cochran
OHS GEMA
P. O. Box 18055
Atlanta, GA 30316-0055

James Hardeman, Manager
Radiological Programs
Georgia Dept. of Natural Resources
4244 International Pkwy, Suite 114
Atlanta, GA 30354

Rusty Sanders, Director
Burke County EMA
P. O. Box 51-B
Waynesboro, Georgia 30830

John Angil, Director
Barnwell County EMA
57 Wall Street
Barnwell, SC 29812

David Ruth, EP Coordinator
Aiken County Emergency Services
828 Richland Avenue West
Aiken, South Carolina 29801

Linda Sanders, Director
Allendale County EPA
P. O. Box 129
Allendale, SC 29810

Debra Foutch
WSRC Emergency Management
Building 703-43A, Room 34-6
Aiken, SC 29808

Ron Osborne, Director
South Carolina EMD
2779 Fish Hatchery Road
West Columbia, SC 29172

Sandra Threath
South Carolina DHEC
2600 Bull Street
Columbia, SC 29201

Ronald Kinney
South Carolina DHEC
2600 Bull Street
Columbia, SC 29201

Cindy Brizes
US Department of Energy
P. O. Box A
Aiken, SC 29802

Mr. Joseph (Buzz) Miller
Senior Vice President
Southern Nuclear Operating Company, Inc.
P.O. Box 1295
Birmingham, AL 35201-1295

Mr. M. Stanford Blanton, Esquire
Balch and Bingham, LLP
P.O. Box 306
Birmingham, AL 35201

Mr. Ted Jackson, Program Manager
Environmental Emergency and
Radiation Program
2 Martin Luther King Jr., Dr., S.E.
Suite 1452, Floyd Towers East
Atlanta, GA 30334

Mr. Jeffrey Larson, Program Manager
Georgia Department of
Natural Resources
4220 International Parkway
Suite 101
Atlanta, GA 30354

Dave Hanley
327 Barlow DR
Waynesboro, GA 30830

Wilbert Roberts
764 US Highway 25
Waynesboro, GA 30830

Douglas Rhodes
3587 Hancock Landing
Waynesboro, GA 30830

Arthur Brengetts
Augusta Technical College
3200 Augusta Tech Dr
Augusta, GA 30906

Jesse Stone
628 Myrick St.
Waynesboro, GA 30830

Brad Bennett
607 14th St, NW
Washington, DC 20005

Tom Reynolds
PO BOX 227
Waynesboro, GA 30830

Emma Oliver
Suite 218
209 14th St NE
Atlanta, GA 30309

Reverend Charles Utley
3318 Surry Place
Augusta, GA 30906

Bill Harrell
629 E 46th St
Savannah, GA 31406

Jennifer A. Royal
351 Liberty St.
Waynesboro, GA 30830

Henry Tinley
307 Springvalley Rd.
Waynesboro, GA 30830

Tanzymore Eugene
PO Box 503
Hephzibah, GA 30815

Reverend JJ Smith
1008 HWY 56 North
Waynesboro, GA 30830

Frank Bove
6558 Parkside Way
Tucker, GA 30084

Louis Zeller
PO Box 88
Glendale Springs, NC 28629

Mary M. Asbill
Emory Law School
1301 Clifton Rd.
Atlanta, GA 30322

Larry Sanders
Emory Law School
1301 Clifton Rd.
Atlanta, GA 30322

Clinton E. Stanford
PO Box 71
Waynesboro, GA

Sam Booher
4387 Roswell Drive
Augusta, GA 30907

Scott MacGregor
PO Box 1837
Augusta, GA 30903

William Hatcher
3111 Vasser Dr.
Augusta, Ga 30909

Chip Barefield
PO Box 19
Waynesboro, GA 30830

Richard Byne
537 Jones Ave
Waynesboro, GA 30830

Delisa Pournaras
B234
42 Inverness Center Parkway
Birmingham, AL 35242

Merv Waldrop
PO Box 89
Waynesboro, GA 30830

Judith E. Gordon
5452 Clanton Woods Dr.
Evans, GA 30809

Carrie Phillip
PO Box 1295
Birmingham, AL 35201

Krista Brewer
250 Georgia Ave
Atlanta, GA 30312

Mary Olsen
NIRS SE
PO BOX 7586
Asheville, NC 28802

Senator J.B. Powell
228 Church St.
Blythe, GA 30805

Sara Barczak
428 Bull St
Suite 201
Savannah, GA 31401

Douglas Fulle
2100 East Exchange Place
Tucker, GA 30084-5336

George B. Taylor, Jr
2100 East Exchange Pl
Atlanta, GA 30084-5336

Christa C. Davis
350 Folkstone Circle
Augusta, Ga 30907

Charles Jennings
134 Blythe Road
Hephzibah, Ga 30815

Cofield Widner
241 Ralph Magill Blvd
Atlanta, GA 30308

Karen Patterson
900 Trail Ridge Rd.
Aiken, SC 29803

Carolyn Paiz
2100 E Exchange Place
Tucker, GA 30084

Kim Haynes
2100 E. Exchange Place
Tucker, GA 30084

Jim Hussey
1058 Claussen Road
Suite 105
Augusta, GA 30907

Marci Culley
495 Kelly St NE
Atlanta, GA 30312

Preston B. Lewis
510 Forest Drive
Waynesboro, GA 30830

Terry Elan
3200 Augusta Tech Dr.
Augusta, GA 30906

Mrs. Preston Lewis
516 Forest Dr.
Waynesboro, GA 30830

James D. Smith
605 W 4th St
Waynesboro, GA 30830

Barbara Miller
2518 River Rd
Waynesboro, GA 30830

Marshall A. Miller IV
634 Miller's Pond Rd.
Waynesboro, Ga 30830

Gerald J. McCoy
271 Stonington Dr
Martinez, GA 30907

A. Suer
455 Cambridge Way
Augusta, GA 30907

Stephen Sacco
PO Box 145
Tybec Island, GA 31328

Ulmer Bridges
3077 HWY 17W
Wrens, GA 30833

Barbara Joyce
471 Seminole Ave NE
Atlanta, GA 30307

Nicole Saxon
710 Peachtree St NE
#732
Atlanta, GA 30308

Wendell Lyon
318 Asbury Church Rd
Waynesboro, GA 30830

Ernest Moore
2779 Fish Habitat Road
West Columbia, SC 29172

Carlos Garcia
955 Colony Parkway
Aiken, SC 29803

Donny Pelfrey
175 Shane Lane
Waynesboro, GA 30830

M. Stanford Blanton
PO Box 306
Birmingham, AL 35201

Deborah Rabun
563 Poole Melton Rd
Blythe, GA 30805

JC Walden
1001 Betty Walden Rd
Blythe, GA 30805

Reba Black
317 Liberty St
Waynesboro, GA 30830
Neal Leonard
PO Box 95
Waynesboro, GA 30830

Wm. F. Brizes
5 Pine Needle Circle
Aiken, SC 29803

John D. Finley
PO Box 131
Sardis, GA 30456

Beryl Landis
902 Rosier Rd
Waynesboro, GA 30830

Desai G. C.
902 Liberty St
Waynesboro, GA

Jim Hardeman
4220 International Pkwy
Suite 100
Atlanta, GA 30354

Bill Tinley
204 Redbud Lane
Waynesboro, GA 30830

Hazel Gerlinger
509 Jones Ave
Waynesboro, GA 30830

Trinetta Skinner
628 Myrick St.
Waynesboro, GA 30830

David Mohley
221 Shady Oak Lane
Waynesboro, GA 30830

Lonnie Sello
176 Salem Circle
Waynesboro, GA 30830

Terri Lodge Kelly
955 HWY 56 N
Waynesboro, GA 30830

Email:
TOMCCALL@southernco.com
CRPIERCE@southernco.com
erg-xl@cox.net
patriciaL.campbell@ge.com
bob.brown@ge.com
mark.beaumont@wsms.com
sfrantz@morganlewis.com
ksutton@morganlewis.com
jgutierrez@morganlewis.com
tom.miller@hq.doe.gov or
tom.miller@ nuclear.energy.gov
steven.hucik@ge.com
david.hinds@ge.com
James1.Beard@ge.com
chris.maslak@ge.com
jim@ncwarn.org
pshastings@duke-energy.com
ronald.hagen@eia.doe.gov
george.stramback@gene.ge.com
david.lewis@pillsburylaw.com
paul.gaukler@pillsburylaw.com
john.o'neill@pillsburylaw.com
matias.travieso-diaz@pillsburylaw.com
maria.webb@pillsburylaw.com
roberta.swain@ge.com