

Tom Tynan
Vice President - Vogtle

**Southern Nuclear
Operating Company, Inc.**
7821 River Road
Waynesboro, Georgia 30830
Tel 706.826.3151
Fax 706.826.3321



November 5, 2007

Docket Nos. 50-424 & 50-425

NL-07-2097

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, DC 20555-0001

Southern Nuclear Operating Company
Vogtle License Renewal Application
Environmental Site Audit Information Request

Ladies and Gentlemen:

On October 15-16, 2007, the U.S. Nuclear Regulatory Commission (NRC) performed an onsite audit of the Environmental Report (ER) and supporting documentation developed for the License Renewal Application for the Vogtle Units 1 and 2. By letter dated September 5, 2007, the NRC provided Southern Nuclear Operating Company (SNC) with a list of questions and information requests to be addressed during the audit. On October 23, 2007 the NRC submitted a list of Post Audit Information Requests that were developed based on the review of the requested information and interviews with SNC personnel and SNC contractors during the audit.

The NRC requested SNC's response to the Post Audit Information Request be formally submitted to support the development of their Environmental Impact Statement (EIS). The NRC has requested SNC to submit the requested information in two phases, in order to allow the NRC to expedite development of the EIS. The enclosure to this letter provides SNC responses to NRC requests for information that was readily available. This response includes the majority of the NRC information requests and SNC has identified eleven (11) items that will require additional time for responses. These items will be addressed in a subsequent letter.

Included with this submittal is information that is copyright protected. Information that is publicly copyright protected is identified as such on the CD-ROM inclusion list in Enclosure 3. The information provided in hard copy (Enclosure 4) is publicly available copyright protected and should be handled as such.

If you have any questions, please contact D. L. Fulton at 205-992-7536 or T. C. Moorer at 205-992-5807.

A129

NRB

Mr. T. E. Tynan states he is a Vice President of Southern Nuclear Operating Company, is authorized to execute this oath on behalf of Southern Nuclear Operating Company and to the best of his knowledge and belief, the facts set forth in this letter are true.

Respectfully submitted,

SOUTHERN NUCLEAR OPERATING COMPANY

Tom E. Tynan

Tom E. Tynan

Sworn to and subscribed before me this 5th day of November 2007

Melba J. Kicklighter
Notary Public

My commission expires: Jan. 11, 2011



Enclosure:

1. Response to NRC Post Audit Information Requests from the October 2007 Environmental Site Audit for Vogtle License Renewal Application.
2. Requested SNC Documentation (List of documents and CD)
3. References (List of references and CD)
4. Hard Copy References (Copyright Protected)

U.S. Nuclear Regulatory Commission

NL-07-2097

Page 3 of 3

cc: Southern Nuclear Operating Company

Mr. J. T. Gasser, Executive Vice President	w/o Enclosures
Mr. T. E. Tynan, Vice President – Vogtle	w/o Enclosures
Mr. D. H. Jones, Vice President – Engineering	w/o Enclosures
Ms. M. M. Caston, Vice President and Corporate Counsel	w/o Enclosures
Mr. B. J. George, Manager – Nuclear Licensing	w/ Enclosures
Mr. N. J. Stringfellow, Licensing Supervisor – Vogtle	w/ Enclosures
Mr. S. M. Blanton, Balch and Bingham LLP	w/o Enclosures
Mr. C. R. Myer, Project Manager – License Renewal	w/o Enclosures
Mr. T. C. Moorer, Project Manager – Environmental	w/o Enclosures
Document Services RTYPE: CVC7000 (letter, Enclosures 1 through 4, without CDs and Hard Copy References)	
Document Services RTYPE: CVLR01.002 (CDs and Hard Copy References)	

Nuclear Regulatory Commission

Mr. J. P. Leous, Environmental Project Manager - Vogtle	w/ Enclosures
Mr. D. J. Ashley, License Renewal Project Manager – Vogtle	w/ Enclosures
Dr. W. D. Travers, Regional Administrator	w/ Enclosures
Mr. S. P. Lingam, NRR Project Manager – Vogtle	w/ Enclosures
Mr. G. J. McCoy, Senior Resident Inspector – Vogtle	w/ Enclosures

State of Georgia

Mr. N. Holcomb, Commissioner – Department of Natural Resources	w/o Enclosures
--	----------------

Tetra Tech NUS, Inc.

Ms. K. K. Patterson, Project Manager	w/o Enclosures
--------------------------------------	----------------

NL-07-2097
Enclosure 1
Post Audit Information Requests

Southern Nuclear Operating Company

NL-07-2097

Enclosure 1

Response to October 23, 2007

Post Audit Information Requests

On

Vogtle License Renewal Application

Environmental Report

Post Audit Information Request
Vogtle Units 1 & 2 License Renewal - October 2007

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
A1	NSA 2006b	Addendum Report: Intensive Archaeological Survey of the Proposed Expansion Areas at the Vogtle Electric Generating Plant, Burke County, Georgia. New South Associates, Stone Mountain, Georgia.		
Response: Requested reference documents are included in Enclosure 3, References.				
A2	NSA 2007	Addendum Report: Phase 1 Intensive Archaeological Survey of the Proposed Expansion Areas at the Vogtle Electric Generating Plant, Burke County, Georgia. New South Associates, Stone Mountain, Georgia.		
Response: The <i>Addendum Report: Phase I Archaeological Survey of the Water Line Corridor for the Proposed Intake Structure at Plant Vogtle</i> was provided to the NRC as support documentation for the Early Site Permit. This report can be found in ADAMS under Accession Number ML072360369.				
A3	SNOG	Actions for Potential Groundwater Contamination Events, 1980s - 2007.	Vogtle Units 1 & 2 10 CFR 50.75 (g) Leak/Spill Decommissioning Record.	Blue folder available at audit.
Response: The Vogtle Units 1 & 2, 10 CFR 50.75(g) Leak/Spill Decommissioning records are included in Enclosure 2, Requested SNC Documentation				
A4	SNOG April 4, 2007	Letter from J.M. Godfrey to NRC Document Control Desk, 2006 Annual Occupational Radiation Exposure Report (for Hatch, Farley, and Vogtle)		Cover letter in blue folder provided at audit. Need copies of contents of blue folder and copy of report itself.
Response: This information will be provided in a subsequent letter.				

**Post Audit Information Request
Vogtle Units 1 & 2 License Renewal - October 2007**

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
A5	SNOC April 30, 2007	Intracompany correspondence, VEGP - Units 1&2, Conceptual Design for a Low Level Radwaste Pad at Plant Vogtle.		Blue folder available at audit.
Response: The Intracompany correspondence, VEGP - Units 1&2, Conceptual Design for a Low Level Radwaste Pad at Plant Vogtle is included in Enclosure 2.				
A6	SNOC April 2007	Plant Alvin W. Vogtle Nuclear Generating Plant Groundwater Monitoring Plan for Radionuclide's.		Blue folder available at audit.
Response: The Plant Alvin W. Vogtle Nuclear Generating Plant Groundwater Monitoring Plan for Radionuclide's is included in Enclosure 2.				
A7	SNOC January 2007	Offsite Dose Calculation Manual for Southern Nuclear Operating Company Vogtle Electric Generating Plant, Version 23.		Blue folder available at audit.
Response: The Offsite Dose Calculation Manual for Southern Nuclear Operating Company Vogtle Electric Generating Plant, Version 23. is included in Enclosure 2.				
A8	SNOC	Copies of Radiological Environmental Monitoring Reports for last 5 years.		
Response: This information will be provided in a subsequent letter.				
A9	SNOC	Copies of Non-Radiological Environmental Monitoring Reports for last 5 years.		
Response: This information will be provided in a subsequent letter.				
A10	SNOC	Copies of NPDES self-monitoring reports for last 5 years.		
Response: The available NPDES reports from 2002 to 2007 are included in Enclosure 2.				

**Post Audit Information Request
Vogtle Units 1 & 2 License Renewal - October 2007**

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
A11	Southeastern Natural Sciences Academy	Draft Savannah River Water Quality Study.	Gene Eidson, 7/1/2007	
Response: The quarterly reports, beginning May 15, 2006, for the first one-year period of the Savannah River at Risk project were provided to the NRC as support documentation for developing the Draft Environmental Impact Statement for the ESP. This report can be found in ADAMS under Accession Number: ML072270048.				
A12		Current water withdrawal rates from SRS		
Response: SRS is currently withdrawing water from the Savannah River at a approximate rate of 40,000 gpm and returning the majority of it back to the river by way of streams and tributaries.				
A13	SNOC	VEGP Waste Minimization Plan		
Response: The Vogtle U nits 1 & 2 Waste Minimization Program is included in Enclosure 2.				
A14	SNOC	Groundwater Monitoring data from first round testing of NEI groundwater initiative.		
Response: A response to this request will be provided in a subsequent letter.				
A15	SNOC	Information on Safe Harbor Program		
Response: Information on SNC's Safe Harbor Program is included in Enclosure 2.				
A16	SNOC	List of water additives and application rates		
Response: This information will be provided in a subsequent letter.				
A17	SNOC	List of herbicides used on site and on transmission lines.		
Response: Herbicides used on the transmission ROWs are Habitat and Aquaneat™. During the late seasons (Fall and Winter) Aquaneat is substituted with Kreniteis in areas outside of wetlands. Herbicides used within the Vogtle property boundary include Diuron 80 DF Herbicide (IVM), Escort XP Herbicide, Glypro Plus, Rebound, Spyder Herbicide, and Riverdale Razor Pro. All herbicides are used in strict conformance with EPA label.				

Post Audit Information Request
Vogtle Units 1 & 2 License Renewal - October 2007

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
A18	SNOC	Information on WINGS		
Response: Information on WINGS are included in Enclosure 2.				
A19	SNOC	Current version of Land Management Plan		
Response: The Land Management Plan for the Vogtle Electric Generating Plant is included in Enclosure 2.				
A20	SNOC	Bathymetric map and cross-sections of Savannah River.		
Response: The bathymetry maps and a cross section of the Savannah River at the existing discharge are included in Enclosure 2.				
ER1	Collins, et al. 2000	Habitat Utilization and Biological Characteristics of Adult Atlantic Sturgeon in Two South Carolina Rivers, <i>Transactions of the American Fisheries Society</i> , 129.982-988,2000.		Reference Book 1, Chapter 2
Response: Requested reference documents are included in Enclosure 3.				
ER2	Collins and Smith 1993	Characteristics of the Adult Segment of the Savannah River Population of Shortnose Sturgeon, 1993 Proc. Annu. Conf. SEAFWA		Reference Book 1, Chapter 2
Response: Requested reference documents are included in Enclosure 3.				
ER3	GDNR 2004	Georgia Department of Natural Resources. Authorization to Discharge under the National Pollutant Discharge Elimination System. Permit No. GA0026786. Environmental Protection Division, Atlanta. May 21, 2004.		Reference Book 4, Chapter 3
Response: Requested reference documents are included in Enclosure 3.				

**Post Audit Information Request
Vogle Units 1 & 2 License Renewal - October 2007**

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
ER4	SNC 2000a - 2004b, 2005b	Groundwater Use Reports		Reference Book 4, Chapter 3
Response: Requested reference documents are included in Enclosure 3.				
ER6	SNOC April 2007	Vogle Early Site Permit Application, Part 3, Environmental Report, Revision 2.	May be proprietary and confidential.	Reference Book 5, Chapter 4
Response: The Vogle Early Site Permit Application, Part 3, Environmental Report, Revision 2 was included in ADAMS in June 2007, under Docket Number 52-011.				
ER7	USACE May 2006 (COE 2006)	Draft Environmental Assessment Finding of No Significant Impact, Drought Contingency Plan Update, Savannah River Basin.		Reference Book 5, Chapter 4
Response: Requested reference documents are included in Enclosure 3.				
ER8	SNC 2005	Calculation Package	Hydrogeology Aquifer Test Data.	Reference Book 3
Response: The hydrogeology aquifer test data is included in Enclosure 2.				
ER9	USACE July 1999 (USACE 1999)	Savannah River Basin Comprehensive Reconnaissance Study.		Reference Book 3
Response: Requested reference documents are included in Enclosure 3.				
ER10	SNOC	Permits and Calculation Packages	Entire notebook contents	Reference Book 9
Response: The Permits and Calculation Packages are included in Enclosure 2.				
ER11	USEPA January 16, 2005 (EPA 2005)	Safe Drinking Water Information System, List of Water Systems in SDWIS for the state of Georgia in Columbia County, http://oaspub.epa.gov/enviro , Accessed on February 21, 2005.		Reference Book 2
Response: Requested reference documents are included in Enclosure 3.				

**Post Audit Information Request
Vogle Units 1 & 2 License Renewal - October 2007**

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
ER12	USGS undated (Falls and Powell 2001)	Stratigraphy and Depositional Environments of Sediments from Five Cores from Screven and Burke Counties, Georgia. US Geological Survey Professional Paper 1603-A		Reference Book 2
Response: Requested reference documents are included in Enclosure 3.				
ER13	Huddlestun and Summerour 1996	The Lithostratigraphic Framework of the Uppermost Cretaceous and Lower Tertiary of Eastern Burke County Georgia.		Reference Book 2
Response: Requested reference documents are included in Enclosure 3.				
ER14	GDOT 2005	Office of Transportation Data 2005 Annual Average Daily Traffic Report		Reference Book 2
Response: Requested reference documents are included in Enclosure 3.				
1	Arnett 2001	Arnett, M. 2001. 2000 Savannah River Biological Surveys for Westinghouse Savannah River Company. Prepared for WSRC by Patrick Center for Environmental Research, Philadelphia Academy of Natural Sciences, Philadelphia, PA. December 2001.		Reference Book 1, Chapter 2
Response: Requested reference documents are included in Enclosure 3.				
2	Bailey et al. 2004	Bailey, M. M., J. I. Isley, and W. C. Bridges. 2004. Movement and population size of American shad near a low-head lock and dam. Transactions of the American Fisheries Society 133: 300-308.		Reference Book 1, Chapter 2
Response: Requested reference documents are included in Enclosure 3.				

**Post Audit Information Request
Vogle Units 1 & 2 License Renewal - October 2007**

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
3	Bennett and McFarlane 1983	Bennett, D.H. and R. W. McFarlane. 1983. The Fishes of the Savannah River Plant: National Environmental Research Park. Prepared by Savannah River Ecology Laboratory for the U.S. Department of Energy.		Reference Book 1, Chapter 2
Response: Requested reference documents are included in Enclosure 3.				
4	Burke County Tax Commission 2006	"Tax Digest – Real and Personal Property," facsimile transmission from Cynthia McManus, Burke County Tax Commissioner, to N. Hill, TTNUS, January 5, 2006.		Reference Book 1, Chapter 2
Response: Requested reference documents are included in Enclosure 3.				
5	DOE 1987	U.S. Department of Energy. 1987. Impingement and Entrainment at the River Water Intakes of the Savannah River Plant. Savannah River Operations Office, Aiken, SC 1987.		Reference Book 2
Response: Requested reference documents are included in Enclosure 3.				
6	DuPont 1987	E. I. du Pont de Nemours & Co. 1987. Comprehensive Cooling Water Study, Volume V: Aquatic Ecology. DP-1739-5. Savannah River Laboratory, Aiken, SC.	Also need Volume 1. Could not locate in ER Reference Books.	
Response: Requested reference documents are included in Enclosure 3.				
7	Gotvald et al. 2005	Gotvald, A. J., J. T. Fisher, C. E. Oberst, and D. L. Calhoun. Water Resources Data-Georgia, 2004. Volume 1: Continuous water-level, stream flow water-quality, and periodic water-quality data, Water Year 2004, B.E. McCallum and D.V. Alhadeff (compilers): Reston, Va., U.S. Geological Survey Water Data Report GA 04-1. 2005.	Holt requested during audit.	Reference Book 2
Response: Requested reference documents are included in Enclosure 3.				

**Post Audit Information Request
Vogle Units 1 & 2 License Renewal - October 2007**

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
8	GDOT 1987a	Georgia Department of Transportation. 1987. General Highway Map of Columbia County, Georgia with Traffic Count Locations, Division of Planning and Programs, Data Planning Services, in cooperation with the U.S. Department of Transportation, Federal Highway Administration, Atlanta, GA, Last Revised 1987.		Reference Book 2
Response: Requested reference is only available in hard copy and is included in Enclosure 4, Hard Copy References.				
9	GDOT 1987b	Georgia Department of Transportation. 1987. General Highway Map of Burke County, Georgia with Traffic Count Locations, Division of Planning and Programs, Data Planning Services, in cooperation with the U.S. Department of Transportation, Federal Highway Administration, Atlanta, GA, Last Revised 1987.		Reference Book 2
Response: Requested reference is only available in hard copy and is included in Enclosure 4.				
10	GDOT 1992	Georgia Department of Transportation. 1992. General Highway Map of Richmond County, Georgia with Traffic Count Locations, Division of Planning and Programs, Data Planning Services, in cooperation with the U.S. Department of Transportation, Federal Highway Administration, Atlanta, GA, Last Revised 1992.		Reference Book 2
Response: Requested reference is only available in hard copy and is included in Enclosure 4.				
11	GDOT 1999	Georgia Department of Transportation. 1999. City Map of Augusta, Richmond County with Traffic Count Locations, Division of Planning and Programs, Data Planning Services, in cooperation with the U.S. Department of Transportation, Federal Highway Administration, Atlanta, GA, Last Revised 1991.		Reference Book 2
Response: Requested reference is only available in hard copy and is included in Enclosure 4.				

**Post Audit Information Request
Vogle Units 1 & 2 License Renewal - October 2007**

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
12	GDOT 2005	Georgia Department of Transportation. 2005. Fax from Ron Battle, Office of Communications, Photocopies of Road Capacity Information from the Highway Capacity Manual 2000, August 22, 2005.		Reference Book 2
Response: This request is the same as ER14 above and is included in Enclosure 2.				
13	GPC 1987 (GPC 1997)	Georgia Power Company. 1997. Georgia Power Transmission Bulletin Number 6-10, "Maintenance of Plant Vogtle Transmission Line Corridors," Atlanta, Georgia, May 8, 1997. Accessed 12/16/05.		Reference Book 2
Response: Requested reference documents are included in Enclosure 3.				
14	GPC 2005	Georgia Power Company. "Electrical Design Parameters of Typical 230 kv and 500 kv Transmission Lines Terminating into Plant Vogtle." Transmitted by email from Dennis Mize (GPC) to Steven Connor (TtNUS) on July 12, 2005.	Could not locate in ER Reference Books.	
Response: Requested reference documents are included in Enclosure 3.				
15	Lee et al. 1980	Lee, D.S., C. R. Gilbert, C. H. Hocutt, R. E. Jenkins, D.E. McCallister, and J.R. Stauffer. 1980. Atlas of North American Freshwater Fishes. North Carolina State Museum of Natural History, Raleigh, NC.	Duda has.	
Response: NRC has a copy and therefore not included with this submittal.				

**Post Audit Information Request
Vogtle Units 1 & 2 License Renewal - October 2007**

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
16	Marcy et al. 2005	and M.J.M. Reichert. 2005. Fishes of the Middle Savannah River Basin with Emphasis on the Savannah River Site. The University of Georgia Press, Athens, Georgia.	To request Interlibrary Loan.	
Response: NRC can provide a copy and therefore not included with this submittal.				
17	Muska and Matthews 1983	Muska, C. F. and R. A. Matthews. 1983. Biological Assessment for the Shortnose Sturgeon, <i>Acipenser brevirostrum</i> LeSueur 1818, The Savannah River Plant DPST-83-754. E. I du Pont de Nemours and Company. Aiken, S.C. October.		Reference Book 2
Response: Requested reference documents are included in Enclosure 3.				
18	NOAA and GDNR 2003	National Oceanic and Atmospheric Administration and Georgia Department of Natural Resources. 2003. State of Georgia Coastal Management Program and Program Document. NOAA Office of Ocean and Coastal Resources Management and GDNR Coastal Resources Division. June 2003.	Could not locate in ER Reference Books.	
Response: Requested reference documents are included in Enclosure 3.				
19	NRC 1985	U.S. Nuclear Regulatory Commission. 1985. Final Environmental Statement Related to the Operation of Vogtle Electric Generating Plant Units 1 and 2, Docket Nos. 50-424 and 50-425, Georgia Power Company, et al. Washington, D.C. March.	Could not locate in ER Reference Books.	
Response: The U.S. Nuclear Regulatory Commission. 1985. Final Environmental Statement Related to the Operation of Vogtle Electric Generating Plant Units 1 and 2, Docket Nos. 50-424 and 50-425, Georgia Power Company document can be found in Legacy ADAMS under Accession number 85049090235.				

**Post Audit Information Request
Vogtle Units 1 & 2 License Renewal - October 2007**

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
20	SNC 2003	Southern Nuclear Operating Company. 2003. Wildlife Habitat Council 2003 Recertification Application for Vogtle Electric Generating Plant. July.		Reference Book 3
Response: Requested reference documents are included in Enclosure 3.				
21	SNC 2005	Southern Nuclear Operating Company. 2005. Vogtle Electric Generating Plant Updated Final Safety Analysis Report (FSAR), Revision 13. January 31, 2005	Note - it is assumed that this report contains information sufficient data to evaluate the modeling conclusions that are referenced in the ER. If not, then please try to obtain copies of any modeling reports that are referenced within this report.	Provided on the Vogtle License Renewal cd.
Response: The section of the FRSAR (pages 2.4.12-22 through 2.4.12-24) used to develop the environmental report is included in Enclosure 3.				
22	Wike et al. 2006	Wike, L.D., F. D. Martin, E. A. Nelson, N.V Halverson, J.J. Mayer, M. H. Paller, R. S. Riley, and M. G. Serrato. 2006. SRS Ecology Environmental Information Document. WSRC-TR-2005-00201. Prepared for the U.S. Dept. of Energy by Westinghouse Savannah River Company, Savannah River Site, Aiken, SC. March.		
Response: Requested reference documents are included in Enclosure 3.				

Post Audit Information Request
Vogtle Units 1 & 2 License Renewal - October 2007

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
23	NA	Please identify the source and date of off-site land use information shown in Figure 2.8-1 of the ER	"1:250,000 Scale Quadrangles of Land Use/Land Cover GIRAS Spatial Data in the Conterminous U.S.", Office of Information Resources Management, available at www.epa.gov/ngispgm3/spdata/EPAGIRAS/egiras .	
Response: Information provided during the audit.				
24	NA	Rad Monitoring Wells – 28 new wells have been installed with the completion of the last well near the discharge ditch at the Savannah River. Please provide any monitoring data that may be available for the new wells.		
Response: This information will be provided in a subsequent letter.				

**Post Audit Information Request
Vogtle Units 1 & 2 License Renewal - October 2007**

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
25	NA	Please provide a description of the following areas and monitoring data that may have been collected in the past 5 years: A.) Rad Waste Storage Area B.) Non-Rad Waste Storage Area C.) Hazardous Waste Storage Area. (NPDES Permit Sampling) D.) Low Level Rad Waste Shipping Building; E.) Fire Training Area F.) Landfills – Construction LF #3; Asbestos and Closed Landfills G.) Rifle Range H.) Sewage Treatment Plant.		
Response: This information will be provided in a subsequent letter.				
H1		Please provide the estimate pounds of waste from the waste manifest of non-radiological resins and sludge disposal.	The non-radioactive resins and sludge are disposed of offsite in a permitted industrial landfill, with an average volume of _____ pounds per year. Mike Odom stated that six roll-off containers are sent for permitted industrial landfill last year.	
Response: This information will be provided in a subsequent letter.				

Post Audit Information Request
Vogtle Units 1 & 2 License Renewal - October 2007

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
H2		Please provide a summary of the types of waste and weight in pounds from the waste manifests.	The hazardous waste consists of listed waste streams, and in 2006, comprised a total of _____ pounds of hazardous waste. Mike Odom stated in 2006, two 55 gallon drums (300 lbs) of haz-waste was sent for disposal and in 2007, two 55 gallon drums of haz-waste was sent for disposal.	
Response: This information will be provided in a subsequent letter.				
H3		Please verify the list and provide a copy of the Waste Minimization Plan.	The VEGP Waste Minimization Plan includes procedures for evaluating and reducing the generation of the following types of wastes. Mike Odom stated during the audit the general waste types include: Oily Rags and Resins; Light Bulbs (universal wastes); Batteries & Capacitors (universal waste); Asbestos; and Used Oils.	
Response: The Waste Minimization Program is included in the response to item A13. The average annual waste recycled from Units 1 and 2 are estimated to be 300 tons of scrap metal, 18 drums of light bulbs, 26 drums of capacitors, and 50 pallets of batteries.				

Post Audit Information Request
Vogle Units 1 & 2 License Renewal - October 2007

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
H4		Please provide monthly withdrawals for the pumps for the last 5 years.	Earth Tech currently has the pre-operational estimates of water withdrawal from the Savannah River based on the maximum withdrawal capacity of the pumps in the intake structure (89 cfs, with an average estimated consumptive use of 33.4 cfs per unit, or 66.8 cfs for the entire facility. Tom Moorer stated the monthly withdrawals are located in the information docket and Mike Odom referenced an average withdrawal of 64 mgd from Savannah River intake. He also mentioned that Don Goodwin has the run-time for pumps and submits them in monthly reports to state.	
Response: The available average monthly water withdrawal rates for 2002 to 2007 are included in the following table:				
		Monthly Average (cfs)	Maximum Day (cfs)	
2002	January	99.02	117.59	
	February	97.48	116.04	
	March	97.48	97.48	
	April	99.02	112.95	
	May	97.48	117.59	
	June	92.83	114.49	
	July	99.02	106.76	
	August	100.57	112.95	
	September	102.12	119.14	
	October	97.48	97.48	
	November	97.48	97.48	
	December	99.02	105.21	

Post Audit Information Request
Vogle Units 1 & 2 License Renewal - October 2007

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
2003	January	97.48	97.48	
	February	97.48	102.12	
	March	99.02	108.31	
	April	99.02	109.85	
	May	100.57	117.59	
	June	99.02	103.66	
	July	100.57	116.04	
	August	100.57	117.59	
	September	105.21	120.68	
	October	97.48	97.48	
	November	99.02	109.85	
	December	97.48	97.48	
2004	January	98.03	98.14	
	February	99.04	116.92	
	March	99.80	109.61	
	April	103.34	124.75	
	May	99.10	106.54	
	June	98.25	104.16	
	July	99.10	106.37	
	August	99.49	110.29	
	September	98.76	111.20	
	October	98.16	101.67	
	November	98.64	108.01	
	December	99.44	114.82	

Post Audit Information Request
Vogle Units 1 & 2 License Renewal - October 2007

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
2005	January	99.75	116.44	
	February	102.04	142.62	
	March	99.21	114.99	
	April	98.40	108.92	
	May	98.67	117.40	
	June	101.44	115.87	
	July	101.75	114.14	
	August	100.66	116.92	
	September	101.71	119.85	
	October	98.03	98.06	
	November	98.03	98.06	
	December	98.03	98.03	
2006	January	99.58	122.20	
	February	98.45	109.47	
	March	98.03	98.03	
	April	101.11	117.09	
	May	104.07	116.48	
	June	100.85	119.24	
	July	100.04	114.77	
	August	98.96	110.43	
	September	103.62	118.35	
	October	98.03	98.14	
	November	99.53	113.07	
	December	99.66	133.09	
2007	January	98.56	106.40	
	February	100.89	115.93	
	March	98.48	111.68	
	April	98.05	98.20	
	May	98.71	109.33	
	June	99.27	111.45	
	July	98.60	105.69	
	August	99.42	113.07	
	September	99.35	112.78	

Post Audit Information Request
Vogtle Units 1 & 2 License Renewal - October 2007

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
H5		For purposes of clarity please revise the following descriptions: The Cooling Water System (CWS) which includes the two 500 ft cooling tower receives water from the Savannah River and circulates the water through the turbine plant. Blow down water from the cooling towers is discharged back into the Savannah River. The (NSCW) system is design for Safety Reactor Cooling and as an Ultimate Heat Sink. The NSCW utilizes groundwater from four wells (MV-1 and MV-2 and backup wells TW-1 and TW-2) for operation. The system has four 80 ft deep cooling sumps with fans that receive the NSCW water and discharge the blow down to the Savannah River.	Tom Moorer was gracious enough to explain the difference between the CWS and NSCW cooling systems numerous times to NRC and Earth Tech. In addition, Figure 3.3 of the Environmental Study, March 1974 presents a diagram.	
Response: This information will be provided in a subsequent letter.				
H6		Please provide the 2006 VEGP Surface Water Quality Monitoring Program Report.		
Response: Copies of the year 2006 Monthly Surface Water Withdrawal Reports are included in Enclosure 2.				
H7		Please provide the NPDES Discharge Monitoring Reports for the last 5 years.		
Response: This request was answered in item A10.				

Post Audit Information Request
Vogle Units 1 & 2 License Renewal - October 2007

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
H8		Please verify the above summary and add information on the four response levels, especially Level 3 and 4 when the flow is below 3800 cfs.	Tom Moorer stated that there is no minimum level established to curtail surface water withdrawal from the Savannah River in the case of a drought. Instead, a Drought Plan (which is part of the Surface Water Withdrawal Permit) and Drought Task Force has been established with the US Army Corps of Engineers to address river flow and withdrawals. There are four Action Levels that are based on the release from Thurmond Dam. At a pool of 312 ft msl in Thurmond Dam, the minimum flow is 3800 cfs. With the current Georgia drought the measuring station in Waynesboro has not dropped below 4000 cfs.	
Response: This information will be provided in a subsequent letter.				
H9		Please provide a copy of the Surface Water Withdrawal Permit and the Groundwater Withdrawal Permit.		
Response: Copies of the Surface Water Withdrawal Permit and the Groundwater Withdrawal Permit are included in Enclosure 2.				

Post Audit Information Request
Vogtle Units 1 & 2 License Renewal - October 2007

Document #	Reference	Reports/Data Requested for Review	NRC Comments	Location
H10		Earth Tech would like to be able to re-create the model's output.	Gary Gunter with Tetra Tech stated that information from the UFSAR was used to develop a spreadsheet model for groundwater drawdown for the new reactor licensing. Both "confined nonleaky aquifer" and "confined leaky aquifer" drawdowns were modeled. Please provide the hydrogeologic data and calculation package on the groundwater that VEGP used in the ER for the Proposed Reactor Units 3 and 4.	
<p>Response: The hydrogeology aquifer test data is included in Enclosure 2.</p>				
Additional	Based on Phone conversation with JP on 10/23/2007	Provide the Integrated Resource Plan	NRC has viewed the document on Web, but it has information redacted and they are requesting the complete plan.	
<p>Response: Due to the volume of material (excess of 15,000 pages) included in the IRP, SNC is requesting the NRC to interview Mike Dusanewskyj from NRC for the requested information. Mr. Dusanewskyj came to Georgia Power Company and reviewed the IRP subsequent to submittal to the Georgia Public Service Commission. SNC can provide the PSC order when it becomes available.</p>				

NL-07-2097
Enclosure 2
Requested SNC Documentation

Southern Nuclear Operating Company

NL-07-2097

Enclosure 2

Requested SNC Documentation

Provided in Support of

Post Audit Information Request Responses

(Submitted Electronically on CD)

NL-07-2097
 Enclosure 2
 Requested SNC Documentation

Contact Person

Name: Dale L. Fulton
Mailing Address: Southern Nuclear Operating Company
 Bin B056
 40 Inverness Center Parkway
 Birmingham, AL 35242
E-Mail Address: dlfulton@southernco.com
Phone Number: 205-992-7536

List of Enclosed Reports/Documents

The following electronic reports/documents are included on the enclosed CD labeled "Requested SNC Documentation" and contains a total of 41 files as follows:

File No.	File Title	No. of Kilo-Bytes	Publicly Available
Folder: General			
001	2006Surface water report.pdf	2,347	Yes
002	groundwater permit.pdf	2,022	Yes
003	GWMP, Radionuclide(PS-07-0897).pdf	13,278	Yes
004	LLW Storage.pdf	2,296	Yes
005	surface water permit.pdf	622	Yes
006	VEGP - ODCM 2006.pdf	3,107	Yes
007	Vogtle Land Management Plan.pdf	9,609	Yes
008	Waste Min Prog (00256-C).pdf	80	Yes
009	NPDES 2002 - 2007.pdf	38,022	Yes
Folder: 10CFR50.75(g)			
010	10cfr75(g)1980s and 1990s.pdf	850	Yes
011	10cfr75(g)-1992.pdf	1,282	Yes
012	10cfr75(g)-FIG1-1994, 1995, and 2006.pdf	1,492	Yes
013	10cfr75(g)-FIG1-2007.pdf	1,381	Yes
Folder: Bathymetry and river cross section			
014	Bathymetry.pdf	904	Yes
015	River Cross Section.pdf	164	Yes
Folder: Safe Harbor			
016	RCW Safe Harbor Agreement.pdf	6,582	Yes
017	Vogtle_DNR_map_Compartment_email.pdf	2,007	Yes
Folder: WINGS			
018	WINGSPublicFactSheet07.pdf	351	Yes
019	WINGS2007.pdf	205	Yes
Folder: Permits			
020	017-0003 (GADNR).pdf	1,953	Yes
021	017-0191-05 (GADNR).pdf	588	Yes
022	017_006D(L)(I) No.2 (GADNR).pdf	2,307	Yes
023	017_007D(L)(I) No.3 (GADNR).pdf	599	Yes
024	0311_10_07_x (SCDHEC).pdf	1,146	Yes

NL-07-2097
 Enclosure 2
 Requested SNC Documentation

File No.	File Title	No. of Kilo-Bytes	Publicly Available
025	4911_033_0030_v_02_0 (GADNR).pdf	2,621	Yes
026	4911_033_0030_v_02_1 (GADNR).pdf	977	Yes
027	4911_033_0030_v_02_2 (GADNR).pdf	1,178	Yes
028	051007 550 004P (Ga PSC).pdf	432	Yes
029	200500606 (USACE).pdf	1,936	Yes
030	GA0026786 (GADNR).pdf	1,773	Yes
031	GAR000000(GADNR).pdf	3,206	Yes
032	GAR100001(GADNR).pdf	2,184	Yes
033	NG0330036 (GADNR).pdf	751	Yes
034	NPF-68.pdf	1,004	Yes
035	NPF-81.pdf	190	Yes
036	PBR_017_07COL (GADNR).pdf	49	Yes
037	PG0330017 (GADNR).pdf	127	Yes
038	PG0330035 (GADNR).pdf	63	Yes
039	T_GA003_L07 (TNDECDRH).pdf	787	Yes
Folder	Calc Packages		
040	leaky and non leaky aquifer calc package.pdf	71	Yes
041	Population Density and Environmental Justice.pdf	3,290	Yes

NL-07-2097
Enclosure 3
Vogtle License Renewal ER References

Southern Nuclear Operating Company

NL-07-2097

Enclosure 3

Vogtle License Renewal ER References

Provided in Support of

Post Audit Information Request Responses

(Submitted Electronically on CD)

NL-07-2097
 Enclosure 3
 Vogtle License Renewal ER References

Contact Person

Name: Dale L. Fulton
Mailing Address: Southern Nuclear Operating Company
 Bin B056
 40 Inverness Center Parkway
 Birmingham, AL 35242
E-Mail Address: dlfulton@southernco.com
Phone Number: 205-992-7536

Document Components:

Miscellaneous reference documents in support of the post audit information request are contained on one (1) CD-ROM. Copyright protected references are highlight below. The CD-ROM is labeled "References for Vogtle License Renewal ER" and contains a total of 27 files as follows:

File No.	File Title	No. of Kilo-Bytes	Publicly Available
001	Collins and Smith 1993-p.pdf	1,873	Yes
002	Collins, et al. 2000-ppdf	1,981	Yes
003	Huddlestun and Summerour 1996-ppdf	6,815	Yes
004	Arnett 2001-ppdf	17,787	Yes
005	EPA 2005-ppdf	2,198	Yes
006	Bailey, et al. 2004-ppdf	2,133	Yes
007	GDOT 2005-ppdf	1,554	Yes
008	Falls and Powell 2001-p.pdf	5,254	Yes
009	USACE 1999-p.pdf	9,890	Yes
010	Bennett and McFarlane 1983-p.pdf	2,849	Yes
011	Burke County Tax Commission 2006-p.pdf	1,786	Yes
012	DOE 1987-p.pdf	8,126	Yes
013	Du Pont 1987 - v 5-P.pdf	57,666	Yes
014	GPC 1997-p.pdf	1,288	Yes
015	Muska and Matthews 1983-p.pdf	6,155	Yes
016	SNC 2003-p.pdf	10,134	Yes
017	Wike et al. 2006-p.pdf	53,635	Yes
018	GDNR 2004-p.pdf	16,733	Yes
019	SNC 2000ab, 2001a,b 2002a,b 2003a,b 2004a,b-p.pdf	1,609	Yes
020	Gotvald et al. 2005-p.pdf	1,700	Yes
021	GPC 2005-p.pdf	3,453	Yes
022	coe 2006-p.pdf	12,366	Yes
023	GDOT 1999 (Part a)-p.pdf	1,236	Yes
024	DuPont 1987b - v1-P.pdf	10,477	Yes
025	NOAA and GDNR 2003new-p.pdf	1,567	Yes
026	SNC 2005-p.pdf	757	Yes
027	NSA 2006b.pdf	2,536	Yes

NL-07-2097
Enclosure 4
Hard Copy References

Southern Nuclear Operating Company

NL-07-2097

Enclosure 4

**Hard Copy References
(Copyright Protected)**

On

Vogle License Renewal Application

Environmental Report

NL-07-2097
Enclosure 4
Hard Copy References

Southern Nuclear Operating Company

NL-07-2097

Enclosure 4

**Hard Copy References
(Copyright Protected)**

On

Vogtle License Renewal Application

Environmental Report

NL-07-2097
Enclosure 4
Hard Copy References

REFERENCE:
GDOT 1987a

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,
THAT CAN BE VIEWED AT THE
RECORD TITLED:
"GENERAL HIGHWAY MAP
COLUMBIA COUNTY
GEORGIA, REVISED 2-16-88"**

**WITHIN THIS PACKAGE... OR
BY SEARCHING USING THE
DOCUMENT/REPORT NO.**

D-01

NL-07-2097
Enclosure 4
Hard Copy References

REFERENCE:
GDOT 1987b

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,
THAT CAN BE VIEWED AT THE
RECORD TITLED:
“GENERAL HIGHWAY MAP
BURKE COUNTY
GEORGIA,
REVISED 12-14-87”**

**WITHIN THIS PACKAGE... OR
BY SEARCHING USING THE
DOCUMENT/REPORT NO.**

D-02

NL-07-2097
Enclosure 4
Hard Copy References

**REFERENCE:
GDOT 1992**

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,
THAT CAN BE VIEWED AT THE
RECORD TITLED:
“GENERAL HIGHWAY MAP
RICHMOND COUNTY
GEORGIA
REVISED 6-8-92”**

**WITHIN THIS PACKAGE... OR
BY SEARCHING USING THE
DOCUMENT/REPORT NO.**

D-03

NL-07-2097
Enclosure 4
Hard Copy References

**REFERENCE:
GDOT 1999 (Part B)**

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,
THAT CAN BE VIEWED AT THE
RECORD TITLED:
“TRAFFIC COUNT MAP, CITY OF
AUGUSTA , RICHMOND COUNTY
GEORGIA”**

**WITHIN THIS PACKAGE... OR
BY SEARCHING USING THE
DOCUMENT/REPORT NO.**

D-04

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,
THAT CAN BE VIEWED AT THE
RECORD TITLED:
“Richmond County,
TC 2006,
City of Augusta.”**

**WITHIN THIS PACKAGE... OR
BY SEARCHING USING THE
DOCUMENT/REPORT NO.**

D-05

**THIS PAGE IS AN
OVERSIZED DRAWING OR
FIGURE,
THAT CAN BE VIEWED AT THE
RECORD TITLED:
“RICHMOND
COUNTY TC 2006.”**

**WITHIN THIS PACKAGE... OR
BY SEARCHING USING THE
DOCUMENT/REPORT NO.**

D-06X