

**Southern Nuclear Operating Co., Docket No. 52-011-ESP  
 March 2009 Evidentiary Hearing on Contested Environmental Issues  
Hearing Exhibits**

<b>Party Exh. #</b>	<b>Witness/ Panel</b>	<b>Description</b>
NRC 000001	All	NUREG-1872, Final Environmental Impact Statement for an early Site Permit (ESP) at the Vogtle Electric Generating Plant Site, Volumes 1 & 2 (August, 2008) combined with corrected Appendix F and the September 3, 2008 Errata. Volume 1 (ML082240145); Volume 2 (ML082240165); Appendix F (ML082260203); Errata (ML082550040)
NRC 000002	E.C. 1.2	Academy of Natural Sciences of Philadelphia (ANSP). 2001. 2000 Savannah River Biological Surveys for Westinghouse Savannah River Company. Report No. 01-16F. Patrick Center for Environmental Research, Philadelphia, Pennsylvania. (ML071310366).
NRC 000003	E.C. 1.2	Academy of Natural Sciences of Philadelphia (ANSP). 2003. 2001 Savannah River Biological Surveys for Westinghouse Savannah River Company. Report No. 03-08F, Patrick Center for Environmental Research, Philadelphia, Pennsylvania. (ML071310328).
NRC 000004	E.C. 1.2	Academy of Natural Sciences of Philadelphia (ANSP). 2005. 2003 Savannah River Biological Surveys for Westinghouse Savannah River Company. Report No. F04-06, Patrick Center for Environmental Research, Philadelphia, Pennsylvania. (ML071310324).
NRC 000005	E.C. 1.2	The Catena Group. 2007. Freshwater Mussel Surveys, The Savannah River from Augusta to Savannah: South Carolina & Georgia. The Catena Group, Hillsborough, North Carolina. (ML081430080).

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NRC 000006	E.C. 1.2	Excerpts from: Marcy Jr. B.C., D.E. Fletcher, F.D. Martin, M. Paller, and M.J.M. Reichert. 2005. Fishes of the Middle Savannah River Basin. The University of Georgia Press, Athens, Georgia. (no ML #).
NRC 000007	E.C. 1.2	Excerpts from: Regulatory Guide 4.2 Rev. 2, Preparation of Environmental Reports for Nuclear Power Stations (1976). Entire document at: (ML003739519).
NRC 000008	E.C. 1.2	Regulatory Guide 4.7, Rev. 2, General Site Suitability Criteria for Nuclear Power Stations (1998). (ML003739894).
NRC 000009	E.C. 1.2 & 1.3	NUREG-1555 Standard Review Plans for Environmental Reviews for Nuclear Power Plants ("ESRP") (2000) Sections: 2.3.1; 2.4.1; 2.4.2; 5.3.1.2; 5.3.2.2; 9.4.1. (Corrected from January 16 list).
NRC 000010	All	NUREG-1555 Standard Review Plans for Environmental Reviews for Nuclear Power Plants ("ESRP") Draft Rev. 1 (2007) Sections: 4.7; 5.3.1.2; 9.4.1.
NRC 000011	E.C. 1.2	Excerpts from: Specht 1987, Comprehensive Cooling Water Study, Final Report, Volume V, Aquatic Ecology, Savannah River Plant, DP-1739-5. Entire document at: (ML070790356).
NRC 000012	E.C. 1.2	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. Primary Report No. DPST-86-798, Environmental and Chemical Sciences, Inc., Aiken, South Carolina. (ML071710043).
NRC 000013	E.C. 1.2	Excerpts from: Bennett D.H. and R.W. McFarlane. 1983. The Fishes of the Savannah River Plant: National Environmental Research Park. SRO-NERP-12. Savannah River Ecology Laboratory, U.S. Department of Energy, Washington, D.C. Entire document at: (ML071310321).
NRC 000014	E.C. 1.2	Excerpts from: NUREG -1087 Final Environmental Statement Related to the Operation of Vogtle Electric Generating Plant, Units I and 2. Docket Nos. 50-424 and 50-425 (1985). Entire Document at: ( <b>ML073170375</b> ) (ML# corrected from January 9 list).

Party Exh. #	Witness/ Panel	Description
NRC 000015	E.C. 1.2	Hendricks A.S. 2002. The Conservation and Restoration of the Robust Redhorse, <i>Moxostoma robustum</i> . Vol. 3. Georgia Power Company Environmental Laboratory, Smyrna, Georgia. (ML090070613)
NRC 000016	E.C. 1.2	Nichols M. 2003. Conservation Strategy for Robust Redhorse ( <i>Moxostoma robustum</i> ) Environmental Laboratory Georgia Power Company for Robust Redhorse Conservation Committee, Atlanta, Georgia. (ML090060104).
NRC 000017	E.C. 1.2 & 1.3	Excerpts from: Grabowski T.B. and J.J. Isely. 2006. "Seasonal and Diel Movements and Habitat Use of Robust Redhorses in the Lower Savannah River, Georgia, and South Carolina." Transactions of the American Fisheries Society 135(5):1145-1155. (No ML#).
NRC 000018	E.C. 1.2	Letter from United States Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service from Walt Wilson, Fisheries Biologist, Protected Resources Division to NRC Staff, October 24, 2006, "Endangered and Threatened Species and Critical Habitats under the Jurisdiction of the NOAA Fisheries Service." (ML063200127).
NRC 000019	E.C. 1.2	Georgia Department of Natural Resources (GDNR). 2008. Locations of Special Concern Animals, Plants and Natural Communities in Burke County, Georgia. (ML090060090).
NRC 000020	E.C. 1.2	E-Mail from Jennifer Price, South Carolina Department of Natural Resources, to Rebekah Krieg, Pacific Northwest National Laboratories, July 26, 2007, "Federal Threatened and Endangered Species in the Vicinity of Vogtle Electric Generating Plant." (ML072140872).
NRC 000021	E.C. 1.2	South Carolina, Rare, Threatened, and Endangered Species Inventory; Species Found in Barnwell County. (ML090060126).
NRC 000022	E.C. 1.2 & 1.3	Excerpts from: Collins M.R. and T.I.J. Smith. 1997. "Distributions of Shortnose and Atlantic Sturgeon in South Carolina." North American Journal of Fisheries Management, 17:995-1000. (No ML#).

Party Exh. #	Witness/ Panel	Description
NRC 000023	E.C. 1.2	Excerpts from: Halverson et al. 1997, Savannah River Site Ecology Environmental Information Document. WSRC-TR-97-0223, Westinghouse Savannah River Company, Washington, D.C. (No ML#).
NRC 000024	E.C. 1.2	Collins M.R. and T.I.J. Smith. 1993. "Characteristics of the Adult Segment of the Savannah River Population of Shortnose Sturgeon." Proceedings of the Annual Conference of Southeastern Association of Fish and Wildlife Agencies 47:485-491. (ML073240726).
NRC 000025	E.C. 1.2 & 1.3	Status Review of Atlantic Sturgeon ( <i>Acipenser oxyrinchus</i> ): Prepared by the Atlantic Sturgeon Status Review Team for the National Marine Fisheries Service National Oceanic and Atmospheric Administration February 23, 2007. Updated with corrections on July 27, 2007. (ML082960581).
NRC 000026	E.C. 1.2	Graph Showing Waynesboro-Thurmond Discharge, Date (1.22.05 - 10.27.08). (ML083230089) (Black and White Copy. No ML# for color copy).
NRC 000027	E.C. 1.2	Excerpts from: Freeman, M.C. and P. Marcinek, 2006. "Fish Assemblage Responses to Water Withdrawals and Water Supply Reservoirs in Piedmont Streams" <i>Envi. Management</i> vol. 38, no. 3 pp. 435-450. Entire document at: (ML083380392).
NRC 000028	E.C. 1.2	Historic Savannah Streamflow Graph from USGS gage # 02197000 at Augusta, GA (~1904-2007). (ML082970693).
SNC 000022 (Ref. replaces NRC 000029)	E.C. 1.2 & 1.3	Letter from United States Department of Commerce, National Oceanic and Atmospheric Administration, National Marine Fisheries Service from Roy E. Crabtree, Ph.D., Regional Administrator to William Burton, dated August 11, 2008, "A Biological Assessment for the Shortnose Sturgeon for the Vogtle Electric Generating Plant Early Site Permit Application." (ML082480450).  (Per the Board's instruction to avoid submission of duplicate exhibits, Staff will rely on SNC000022 rather than NRC000029 from NRC Staff Hearing Exhibits filed January 9, 2009)

Party Exh. #	Witness/ Panel	Description
NRC 000030	E.C. 1.2 & 1.3	Southern Nuclear Operating Company, Draft Interim Report of Fish Impingement and Entrainment Assessment at the Plant Vogtle Electric Generating Plant, September 2008. (ML082830945).
NRC 000031	E.C. 1.2	Letter from J. A. "Buzz" Miller, Senior Vice President, Nuclear Development, Southern Nuclear Operating Company, Inc. to NRC Staff dated May 27, 2008 with attached Impingement and Entrainment Monitoring Update at Plant Vogtle. (ML081510022).
NRC 000032	E.C. 1.2	Note-to-File: Trip report of March 7-9, 2007, tour of VEGP Units 1 and 2. (ML070740099).
NRC 000033	E.C. 1.2	Note-to-file: Trip report of October 14, 2008. (ML082620184).
NRC 000034	E.C. 1.2	Paller M.H. 1992. The Influence of Savannah River Discharge and Changing Savannah River Site (SRS) Cooling Water Requirements on the Potential Entrainment of Ichthyoplankton at the SRS Savannah River Intakes. WSRC-RP-92-1001, Westinghouse Savannah River Co., Aiken, South Carolina. (ML071200182).
NRC 000035	E.C. 1.2 & 1.3	Excerpts from: U.S. Environmental Protection Agency "National Pollutant Discharge Elimination System: Regulations Addressing Cooling Water Intake Structures for New Facilities," 66 Fed. Reg. 65,256. (December 18, 2001). (no ML #).
NRC 000036	E.C. 1.2	McFarlane R.W., R.F. Frietsche and R.D. Miracle. 1978. Impingement and Entrainment of Fishes at the Savannah River Plant. An NPDES 316b Demonstration. DP-1494, E.I. Du Pont DE Nemours and Company, Savannah River Laboratory, Aiken, South Carolina. (ML070790211).
NRC 000037	E.C. 1.2	Excerpts from: NUREG-1437 Vol. 1 & 2 Generic Environmental Impact Statement for License Renewal of Nuclear Plants, Main Report, Final Report. (1996). Entire Document: (Vol. 1 ML040690705; Vol. 2 ML040690738).

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NRC 000038	E.C. 1.2	U.S. Army Corps of Engineers (USACE). 2006. Drought Contingency Plan Update: Savannah River Basin. Draft Environmental Assessment and Finding of No Significant Impact. Mobile/Savannah Planning Center, Savannah District, U.S. Army Corps of Engineers. (ML083230104).
NRC 000039	E.C. 1.2	US Army Corps of Engineers, Savannah District, Draft Environmental Assessment and Finding of No Significant Impact, Temporary Deviation Drought Contingency Plan, Savannah River Basin, October 2008. (ML082960588).
NRC 000040	E.C. 1.2	Aucott, W.R., S.R.S. Meadows, and G.G. Patterson. 1987. Regional Ground-Water Discharge to Large Streams in the Upper Coastal Plain of South Carolina and Parts of North Carolina and Georgia. Water-Resources Investigations Report 86-4332, U.S. Geological Survey, Columbia, South Carolina. (ML090060759).
NRC 000041	E.C. 1.2	Flow Data from Thurmond Dam Discharge and USGS Gauge #021973269 Near Waynesboro, GA. (ML083240362).
NRC 000042	E.C. 1.2	Excerpt from: Clarke, J.S. and C.T. West, USGS, Ground-Water Levels, Predevelopment Ground-Water Flow, And Stream-Aquifer Relations In The Vicinity Of The Savannah River Site, Georgia And South Carolina. 1997. Entire document at: (ML073330961).
NRC 000043	E.C. 1.2	Excerpt from: US Global Change Research Program: The Potential Consequences of Climate Variability and Change (2000). (ML090060226).
NRC 000044	E.C. 1.2	Excerpt from: Intergovernmental Panel on Climate Change: Climate Change 2007, Synthesis Report. (ML090060219).
NRC 000045	E.C. 1.2	Excerpts from: NUREG 1437, Supplement 34-General Environmental Impact Statement for Licenses Renewal of Nuclear Plants, Supplement 34, Regarding Vogtle Electric Generating Plant, Units 1 and 2. Draft Report for Comment. Entire document at: (ML083380325).

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NRC 000046	E.C. 1.3	Excerpts from: Richmond, A.M. and B. Kynard. 1995. "Ontogenetic Behavior of Shortnose Sturgeon, <i>Acipenser brevirostrum</i> ." Copeia 1995(1 ):72-182. (No ML#).
NRC 000047	E.C. 1.3	Excerpts from: Hall J.W., T.I.J. Smith, and S.D. Lamprecht. 1991. "Movements and Habitats of Shortnose Sturgeon, <i>Acipenser brevirostrum</i> , in the Savannah River." Copeia 1991 (3):695-70. (No ML#).
NRC 000048	E.C. 6.0 (Sponsor: NRC)	Excerpts from: US Army Corps of Engineers, ER-1105-2-100, Planning Guidance Notebook (2000). Entire document at: (ML083520607).  (Exhibit is sponsored by NRC staff panel, not by USACE panel.)
NRC 000049	E.C. 6.0 (Sponsor: NRC)	US Army Corps of Engineers, ER-200-2-2, Procedures For Implementing NEPA (1988). (ML083510821).  (Exhibit is sponsored by NRC staff panel, not by USACE panel.)
NRC 000050	E.C. 1.2	AP1000 DCD Revisions 15 and 16 Values: Summary of Cooling System Flow Rate Changes. (ML090060290).