



# Vogtle 3 & 4 COL

---

Southern Nuclear Operating Company  
VEGP Units 3 & 4  
Combined Licenses and  
Limited Work Authorization

Mandatory Hearing

Safety – Panel 2

September 27, 2011

Amy Aughtman – SNC  
Don Moore – SNC  
Wes Sparkman – SNC  
Eddie Grant – NuStart

---

## **Selected Topics – Chapters 3 & 6**

---

- ◆ **Soil Structure Interaction**
- ◆ **LWA-B**
- ◆ **Squib Valves**
- ◆ **Engineered Safety Features (ESF) Systems**
- ◆ **Containment Cleanliness Program**
- ◆ **Control Room Habitability**

# Soil Structure Interaction

---

- ◆ VEGP GMRS compared to AP1000 CSDRS showed exceedances at certain frequency ranges, therefore a site specific analysis was performed.
- ◆ A 2-D VEGP-specific seismic evaluation performed for the ESP demonstrated the acceptability of the Vogtle site for LWA-A.
- ◆ A 3-D VEGP-specific seismic evaluation was performed for the COLA. This evaluation considered.
  - ◆ In-Structure Response Spectra for six key locations
  - ◆ Lower bound, best-estimate, and upper bound soil properties
- ◆ The 3-D model results provided in the COLA demonstrate that the standard AP1000 plant certified design is fully acceptable for the Vogtle site.

## LWA-B

---

- ◆ LWA-B requests authorization to continue safety-related NI foundation work
    - ◆ base mat reinforcing steel, including the rebar and other embedded items
    - ◆ sumps and drain lines
    - ◆ base mat concrete
  - ◆ ESP FEIS resolved LWA-B environmental impacts
  - ◆ Foundation design incorporated by reference from AP1000 DCD
-

# Squib Valves

---

- ◆ Design and qualification addressed by DCD
  - ◆ This information incorporated by reference into COLA at FSAR Sections 3.1 through 3.11, and 3A through 3G, 3H & 3I
- ◆ COLA addresses testing in FSAR Subsection 3.9.6.2.2
  - ◆ IST Program will address industry and regulatory guidance
  - ◆ IST program will include lessons learned from:
    - ◆ Design process for the valves
    - ◆ Qualification process for the valves

# Engineered Safety Feature Systems

---

- ◆ Fully addressed by DCD
  - ◆ Chapter 6 – Engineered Safety Features
  - ◆ Design Descriptions and Evaluations
  - ◆ ITAAC by system
  - ◆ This information incorporated by reference into COLA at FSAR Chapter 6
  
- ◆ COLA FSAR discusses only ESF materials
  - ◆ FSAR Section 6.1
  - ◆ COL 6.1-1 - controlling special features fabrication
  - ◆ COL 6.1-2 - addresses coatings programs
    - ◆ Applies applicable quality assurance controls
    - ◆ Applies applicable industry and NRC guidance

# Containment Cleanliness Program

---

- ◆ DCD subsection 6.3.8.2 addresses Long-Term Recirculation Water availability following a LOCA
  - ◆ Recirculation screen design
  - ◆ Testing to assess screen performance & downstream effects
  - ◆ Completed study of effects of screen and downstream effect/performance on long-term cooling
  - ◆ COL Item to address preparation of Containment Cleanliness Program
  
- ◆ STD COL 6.3-1 describes program to minimize amount of debris left in containment following entry/exit
  - ◆ Addresses containment entry/exit, housekeeping, and a sampling program

# Control Room Habitability

---

- ◆ DCD addresses generic information
  - ◆ Tier 2 Section 6.4 – Habitability Systems
  - ◆ Design Descriptions and Evaluations
  - ◆ ITAAC by system
  - ◆ This information incorporated by reference into COLA at FSAR Section 6.4
  
- ◆ COLA FSAR addresses site specific considerations
  - ◆ Subsection 2.2.3 – Evaluation of Potential Accidents
  - ◆ Subsection 6.4.3 – Procedures and training
  - ◆ Subsection 6.4.4 – Site-specific chemicals
  - ◆ Subsection 6.4.4 – Dual unit evaluations



**UNITED STATES OF AMERICA  
NUCLEAR REGULATORY COMMISSION**

**BEFORE THE COMMISSION**

<b>In the Matter of</b>	)	
	)	
<b>Southern Nuclear Operating Company</b>	)	<b>Docket Nos. 52-025-COL and 52-026-COL</b>
	)	
<b>(Vogtle Electric Generating Plant, Units 3 and 4)</b>	)	<b>September 20, 2011</b>
	)	

**CERTIFICATE OF SERVICE**

I hereby certify that copies of EXHIBIT SNC000007 for the Vogtle Units 3 & 4 COL Mandatory Hearing in the above-captioned proceeding have been served by electronic mail as shown below, this 20th day of September, 2011, and/or by e-submittal.

M. Stanford Blanton  
C. Grady Moore  
Peter D. LeJeune  
Leslie Garrett Allen  
Millicent Ronnlund  
Balch & Bingham LLP  
P. O. Box 306  
Birmingham, AL 35201  
(E-mail: [sblanton@balch.com](mailto:sblanton@balch.com);  
[plejeune@balch.com](mailto:plejeune@balch.com);  
[mronnlund@balch.com](mailto:mronnlund@balch.com))

Marcia Carpentier  
Karen Francis  
Joseph Gilman  
Ann P. Hodgdon  
Sara Kirkwood  
Patrick A. Moulding  
Marian Zobler  
Office of the General Counsel  
Mail Stop O-15D-21  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
(E-mail: [marcia.carpentier@nrc.gov](mailto:marcia.carpentier@nrc.gov);  
[karin.francis@nrc.gov](mailto:karin.francis@nrc.gov);  
[joseph.gilman@nrc.gov](mailto:joseph.gilman@nrc.gov);  
[ann.hodgdon@nrc.gov](mailto:ann.hodgdon@nrc.gov);  
[sara.kirkwood@nrc.gov](mailto:sara.kirkwood@nrc.gov);  
[patrick.moulding@nrc.gov](mailto:patrick.moulding@nrc.gov);  
[marian.zobler@nrc.gov](mailto:marian.zobler@nrc.gov))

Kristy Remsburg  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
(E-mail: [ogcmailcenter@nrc.gov](mailto:ogcmailcenter@nrc.gov))

Office of Commission Appellate  
Adjudication  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
(E-mail: [ocaamail@nrc.gov](mailto:ocaamail@nrc.gov))

Charles Pierce  
Southern Nuclear Operating Company  
42 Inverness Center Parkway  
Birmingham, AL 35242  
(E-mail: [CRPIERCE@southernco.com](mailto:CRPIERCE@southernco.com))

Kathryn M. Sutton  
Mary Freeze  
Morgan, Lewis & Bockius, LLP  
1111 Pennsylvania Ave., N.W.  
Washington, DC 20004  
(E-mail: [ksutton@morganlewis.com](mailto:ksutton@morganlewis.com);  
[mfreeze@morganlewis.com](mailto:mfreeze@morganlewis.com))

Office of the Secretary  
Mail Stop O-16C1  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
(E-mail: [HEARINGDOCKET@nrc.gov](mailto:HEARINGDOCKET@nrc.gov))

Anita Ghosh  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555-0001  
(E-mail: [anita.ghosh@nrc.gov](mailto:anita.ghosh@nrc.gov))

Rebecca Giitter  
U.S. Nuclear Regulatory Commission  
Rulemakings and Adjudications Staff  
Office of the Secretary  
Washington, D.C. 20555-0001  
(E-mail: [rebecca.giitter@nrc.gov](mailto:rebecca.giitter@nrc.gov))

Respectfully submitted,

(Original signed by M. Stanford Blanton)

---

M. Stanford Blanton, Esq.  
BALCH & BINGHAM LLP  
1710 Sixth Avenue North  
Birmingham, AL 35203-2015  
Telephone: (205) 251-8100  
Facsimile: (205) 226-8798  
COUNSEL FOR SOUTHERN NUCLEAR  
OPERATING COMPANY

Kathryn M. Sutton, Esq.  
MORGAN, LEWIS & BOCKIUS LLP  
1111 Pennsylvania Avenue, NW  
Washington, DC 20004  
Telephone: (202) 739-5738  
Facsimile: (202) 739-3001  
CO-COUNSEL FOR SOUTHERN NUCLEAR  
OPERATING COMPANY