



Vogtle
units 3&4 Nuclear Development

SOUTHERN COMPANY

**Regulatory Information Conference
Construction Inspection Program
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This slide features a background image of the Vogtle nuclear power plant with two large cooling towers in the foreground. The text is centered on the slide.



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**ITAAC Readiness
&
LWA/Construction
Lessons Learned**

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ITAAC Readiness

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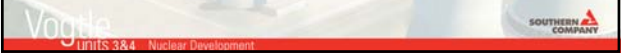
SNC Involvement on ITAAC Readiness

- Industry Participation
- Development and review of ITAAC Completion Packages
- Development of Procedures
- Training & Tools
- Oversight of site specific ITAAC



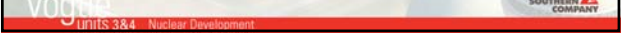
Industry Participation

- NEI: CIP - NEI 08-01 Development and Improvement
- NRC/NEI Workshops for ITAAC
- ITAAC Closure Demonstration Project sponsored by DOE (participants SNC, Westinghouse and NRC)



Development and review of ITAAC Completion Packages

- NEI 08-01 – Industry Guideline for ITAAC Closure Process Under 10 CFR Part 52
- Westinghouse, SNC and others are working together on the development of ITAAC Performance and Documentation Plans (PDPs).
- The PDPs provide the process and documentation required to demonstrate that the ITAAC is met.
- Completion Package is the review basis for ITAAC closure letter



Procedure Development

- ITAAC Performance and Documentation Plans
- ITAAC Program Description
- Construction Oversight Program
- ITAAC Closure Process



Training & Tools

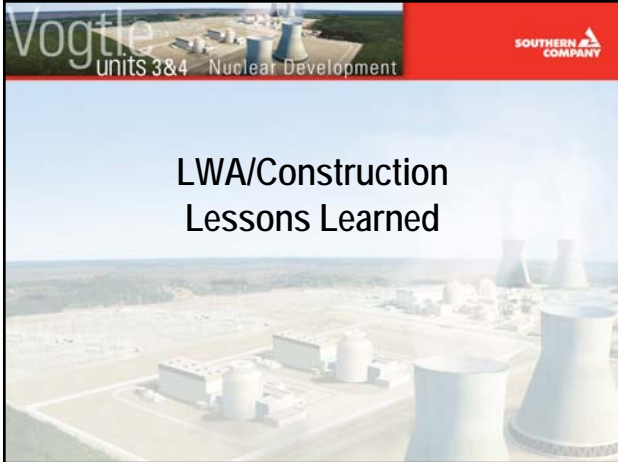
- Licensing department is providing ITAAC training
- Oversight ITAAC tools are being developed
- Site specific ITAAC activities are identified in oversight processes



Oversight of site specific ITAAC

- Vogtle 3&4 project has three site specific ITAACs related to LWA activities.
 - 2 on backfill
 - 1 on waterproof membrane
- The SNC construction oversight program is monitoring ITAAC activities.
- ITAAC related issues are identified in the Corrective Action Programs.





LWA/Construction Lessons Learned



Construction Lessons Learned

- EPC Roles & Responsibilities
- Program Development
 - FFD Program
 - Corrective Action Program
- Fabrication Vendors
- Oversight Role Evolving



EPC Roles & Responsibilities

SNC - Licensee

The Southern Nuclear Operating Company, Inc. (SNC) is the non-owner applicant for a Combined License for the VEGP and will be the constructor and licensed operator of Units 3 and 4. The owner licensees are as follows: Georgia Power Company, Oglethorpe Power Corporation, Municipal Electric Authority of Georgia, and the City of Dalton, Georgia. SNC is a wholly-owned subsidiary of Southern Company.

EPC Roles & Responsibilities

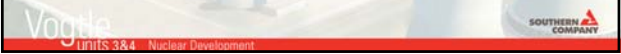
Consortium of Westinghouse and Shaw – Constructors

On April 8, 2008, the owner licensees for VEGP Units 3 and 4 executed a contract for Engineering, Procurement, and Construction (EPC) of the facilities with a Consortium comprised of Westinghouse and Stone & Webster, Inc. The Consortium will act as the AP1000 provider and architect-engineer for VEGP Units 3 and 4. Southern Nuclear, as the constructor of VEGP Units 3 and 4, has delegated responsibility for physical construction activities to the Consortium.



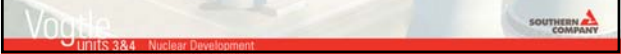
Lessons Learned

- Licensee is responsible
- Defining adequate oversight
- Selection of key project staff
- Personnel Training
- Building a strong safety culture



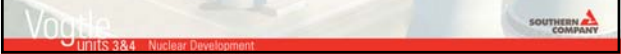
Program Development

- FFD Program
 - 6 Notification Events (3 Programmatic)
 - 1 level IV violation
 - 2 SNC audits with 17 findings
- Corrective Action Programs (CAPs)
 - 4 independent CAPs
 - Handoff and follow-up
 - Nonconformance – use as is and repair



Lessons Learned

- FFD
 - First time programs which are complicated need a lot of oversight and support
 - SNC is hiring a full time FFD program expert onsite to provide oversight and support to Construction FFD Program
- Corrective Action Programs
 - Ideal: a single CAP for construction used by all on-site entities
 - Interface points create opportunities for failure
- Nuclear Safety Culture



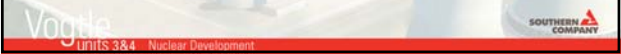
Fabrication Venders

- Licensee is responsible
 - Proposed Level IV Violation for CB&I
- Multiple Fabricator Stop Work Orders
 - Programmatic weaknesses
- Fabricators with new Appendix B programs are struggling to meet current expectations



Lesson Learned

- Level of Licensee oversight will be increased
 - Participation in vender qualification audits by WEC and Shaw
 - Participate in readiness review assessments prior to start of work
 - More surveillance activities for co-located on-site fabrication activities
 - Risk based oversight



Oversight Role Evolving

- Expectations are changing
- Struggling areas require increased oversight
- Oversight resource allocation is following a schedule and risk based approach
- Oversight is requiring increased readiness reviews
- Nuclear Safety Culture training/expectations