



**RIC 2012**  
**Construction Inspection Program**  
**Transitioning to Execution**  
**Westinghouse AP1000®:**  
**Early Project Insights on Transition to Construction**

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**US AP1000 Project Execution: Westinghouse Role**

Headquarters

- AP1000 Design Authority
- Procurement
- Supplier Oversight

Site

- Consortium Project Leadership
- Site Engineering
- Licensing and ITAAC
- Fabrication and Component Installation
- Operator Training
- Commissioning and Start-up



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**Vogtle AP1000 Project Status**



**Certified and Licensed!**



**Containment Vessel Cradle**



**On-site fabrication pre-staging for construction: Unit 3 Containment Vessel Bottom Head and Ring 1**

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### Vogtle AP1000 Project Status



AP1000 Training Simulator



Turbine Building Prep



Condenser Components Arriving

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### Early Insights: *Paradigm Shifts*

- Focus of Design Effort:
  - Shift in support of certification to construction
  - Evaluation of regulatory impact shifting from standard plant design to plant specific FSAR
- Applicability of Experience:
  - Vendor / Utility / NRC Perspectives
  - Part 52 Construction
- Oversight:
  - Regulator (HQ / Region, vendor / construction)
  - Licensee

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### Early Insights: *New Process Challenges*

- Corrective Action Programs
  - Multiple Appendix B QA programs on site present coordination and communication challenges
  - Expectations of Integration of Corrective Actions
- ITAAC
  - Integration of Design Cert / Standard Plant PDPs into Project specific work flow across multiple project organizations
  - Expectations for prototypical testing
- Owner / Contractor Licensing Processes
  - Coordination of living FSAR with Construction
  - Licensing Changes during construction (LARs, PARs, 50.59 like Process)

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**Key Take Away:**

For effective transition to construction, consider application of INPO's "Principles for Excellence in Nuclear Project Construction", including:

- Construction of a Nuclear Plant has Special Requirements
- The Plant is Built as Designed
- The Transition to Plant Operation is Started Early

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