



RIC 2012
Construction Inspection Program
Transitioning to Execution
Nuclear Construction
Installation and Inspection

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Shaw Nuclear Projects Overview

Company Profile

- The Shaw Group Inc.
- Headquarters: Baton Rouge, LA
- Fortune 500 Company
- Global corporation
- Number of employees: 27,000
- Number of nuclear employees: 9,603
- Over 60 years nuclear industry experience in over 20 countries

Current Projects

- **Four AP1000[®] units in China**
 - Providing Project & Construction Management
 - Sanmen: set the first reactor vessel in September, 2011
 - Haiyang: set reactor vessel in January, 2012
- **First U.S. nuclear units in 30 years**
 - Providing Engineering, Procurement & Construction
 - Plant Vogtle near Waynesboro, Ga.
 - V.C. Summer near Jenkinsville, S.C.



Sanmen site photo.



Photo Courtesy of Southern Company



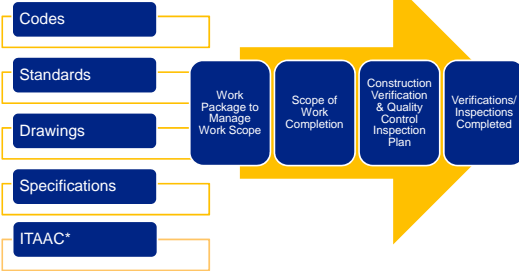
US AP1000 Project Execution: Shaw Role



Plant Vogtle photo courtesy of Southern Company.

- > Shaw's Power Group
 - Engineering, procurement and construction contractor for Vogtle and V.C. Summer projects
 - Engineers for AP1000 balance of plant
 - Procures the balance of engineered equipment, construction commodities and consumables
 - Site Construction

The Business of Construction

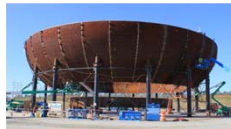


*Inspection, Tests, Analysis and Acceptance Criteria (ITAAC)

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Procedural Importance

- Construction work follows specific procedures
 - 10CFR50 Appendix B and NQA-1 = Industry Requirements
 - ASME III QA Program, DCD (Design Control Document), ITAAC
 - SWSQAP (Shaw Nuclear Quality Assurance Program)
 - NCSP (Nuclear Construction & Startup Procedures)
 - Procedures are developed in regard to:
 - Regulatory identified changes
 - Engineering installation specifications
 - Interface procedural changes
 - Input from BP/IO Process
 (Best Practices/Improvement Opportunities)
 - Upper tier requirement changes
 - Lessons Learned



V.C. Summer Unit 2 containment vessel lower head.

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Construction Fundamentals

- External
 - Nuclear Regulatory Commission
 - Client
- Internal
 - Safety
 - Company Culture
 - Safety Conscious Work Environment (SCWE)
 - Corrective Action Program
 - Training



V.C. Summer site preparation.

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