



Oconee
Digital RPS/ESPS
Upgrade Project
EPRI/NEI Workshop
March 28-29, 2006
Bob Gill



Topics

- ❖ Defense in Depth & Diversity Assessment
- ❖ License Amendment Request
- ❖ Going Forward
- ❖ Lessons Learned



Defense in Depth & Diversity Assessment

- ❖ NRC BTP – 19, applies
- ❖ Duke/Oconee initial submittal made 03/20/2003 Meetings, RAIs and Responses followed
- ❖ Oconee committed to add diverse LPI actuation system in lieu of crediting LBB
- ❖ Initial approval requested by 10/2004
- ❖ Subsequent staff reviews occurred in 2005
- ❖ Human Factor RAIs issued and answered in Fall 2005
- ❖ NRC SER

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License Amendment Request

- ❖ Duke/NRC pre-submittal meetings during 2002, 2003 and 2004
- ❖ Submittal of LAR 02/14/2005 – based on NRC approved TXS Topical and its Safety Evaluation Report
- ❖ Approval initially requested in early 2006
- ❖ Initial staff draft RAIs provided 03/31/2005
- ❖ RAIs requested:
 - Design and installation documents not yet developed
 - Clarification of design aspects
 - Background information to aid understanding
- ❖ RAIs seemed to be using SRP Chapter 7 and BTPs as the review standard

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License Amendment Request

- ❖ Oconee began providing formal submittals in response to RAIs in October 2005
- ❖ Formal submittals have continued monthly through February 2006
- ❖ NRC conducted a site-visit at FANP Alpharetta offices in November 2005
- ❖ Several issues of concern have been identified and Oconee/FANP have provided responses to each of the issues
- ❖ Information provided has been both proprietary and non-proprietary
- ❖ Frequent communications have occurred with NRC staff and Management

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Going Forward

- ❖ Installation of first system has been postponed from Unit 1 in 2006 to Unit 3 in 2007
- ❖ Equipment Qualification and Factory Acceptance Testing will be completed by July 1, 2006
- ❖ Certain plant calculations and operational procedures are in the process of being developed and will be completed later in 2006 and in 2007 prior to installation
- ❖ Licensing process will continue in order to resolve staff concerns in a timely manner
- ❖ NRC SER expected prior to the Unit 3 installation

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Lessons Learned

- ❖ Findings
- ❖ Regulatory standards
- ❖ Submit high quality, accurate, and timely documents
- ❖ Milestone schedule
- ❖ Communications
- ❖ Vendor Topical Reports
- ❖ Bench strength

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