

Bellefonte 3&4

Lee Nuclear 1&2

Summer 2&3

Vogtle 3&4

Harris 2&3



AP1000 Design-Centered Work Group

Meeting with NRC Staff October 24, 2006

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AP1000



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AP1000 DCWG Agenda

- **Status Update**
- **TSC Location**
- **Containment Leak Rate Test Operational Program**



**AP1000 DCWG
Status Update**

AP1000 Status Update

- **COLA development**
 - On schedule (48 of 163 sections drafted at x.y)
- **Technical Reports**
 - 34 of 72 Westinghouse TRs completed/submitted; several additional under consideration
 - 23 of 23 RAI question responses (all within 30 days)
 - 0 of 8 COL DCWG TRs (#1 planned for late Oct/early Nov)
- **Technical meetings ongoing**
- **Key milestones**

■ DG1145 draft	complete
■ 10 CFR 52 PFR	complete
■ LWA NOPR	complete
■ DG1145 comments (NEI)	complete
■ NUREG-0800 "for use and comment"	Mar 2007
■ AP1000 Rev 16 (TBV)	May 2007
■ COLA submittals	Oct 2007



TSC Location

TSC Background

- **AP1000 design (DCD Revision 15) provides TSC location within a unit**
 - Single large room with adjacent conference rooms (total of ~3400 ft²), and peripheral facilities (kitchen, restroom)
 - Described in Tier 1 as “across the hall” from control room
- **Five ITAAC in Tier 1:**
 - Space requirements (75 sq ft x 25 occupants = 1875 sq ft)
 - Communication requirements (TSC with MCR, OCR, EOF and NRC)
 - Plant parameter retrievability
 - Location (across from MCR)
 - Habitable environment
- **Tier 2 information includes:**
 - TSC mission/function
 - Ventilation
 - Diesel power support

TSC Considerations

- **DCD based on single unit and does not:**
 - Address implementation for two-unit site
 - Address collocation and integration with existing operating units
- **Various options for TSC location: MCR proximity is only Tier 1 requirement that might be a challenge**
 - Space requirements can be met or exceeded
 - Communication requirements and plant parameter retrievability readily met with current communications technology
 - Habitable environment can be met
- **Location (across from MCR) less important with advent of communication/data technology**
 - Supported by DG-1145: “Advanced communication capabilities may be used to satisfy the two minute travel time”

Options Being Evaluated

- **Unit-specific TSCs (as per DCD)**
- **One TSC for both AP1000s**
 - As per DCD for one unit
 - Separate common facility
- **Common TSC for entire site (site with existing units)**
 - Designated unit
 - Stand-alone common facility

Path Forward

- **Proposal:**
 - Eliminate specific location from Tier 1
 - Standardize on approach to meeting remaining Tier 1 requirements while maintaining flexibility
 - Complete evaluation and selection location(s)
- **Benefits of flexibility**
 - Facilitates integration with existing emergency management program
 - “Human factors” implications (i.e., knowing which TSC to staff in an emergency)
 - Enables selection without unnecessary constraint on specific location
- **Future submittal to identify**
 - What should be maintained in Tier 1 and why
 - Changes needed to existing DCD
- **Address in future TR, DCD Rev 16**



Containment Leak Rate Testing Operational Program



Containment Leak Rate Testing Program

- **Operational program required by 10 CFR 50.54(o)**
- **COL information item 6.2-1: applicant responsible for developing containment leakage rate testing program and identifying Option A or B as defined by Appendix J**
- **AP1000 Technical Report describes program elements and identifies selection of option B and establishes program in accordance with NEI 94-01 and RG 1.163**
- **Technical Report**
 - Pre-application activity as described in DG-1145 C.IV.7
 - Provide standard approach for AP1000 plants
 - Vehicle to close COL information item



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Future Interactions

Future AP1000 Interactions

- **November/December 2006**
 - “All-DCWG” Workshop
 - DAC workflow process
 - Plans for addressing COL information items
 - Relationship of COL application and possible DCD revision (TBV)
 - Additional TRs and specific technical interactions
- **To be scheduled (1Q2007 or beyond)**
 - Potential policy issues – dependent in part on 10CFR52 and DG1145
 - Plans to request limited work authorization
 - QA inspection

Operational Programs

- **NEI**
 - QA
 - Security
 - Radiation Protection
 - Training
 - Emergency Planning (EALs)
 - Maintenance Rule
- **AP1000**
 - RV Material Surveillance
 - Process & Effluent Monitoring & Sampling
 - Preservice & Inservice Inspection
 - Preservice & Inservice Testing
 - Environmental Qualification
 - MOV Program



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