

NRC Commission Briefing on ITAAC



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TOPICS

- Westinghouse Role in ITAAC Process
- Progress on Generic ITAAC Issues
- Application of Lessons Learned
- Standardization and the Fleet Approach



Westinghouse Role in ITAAC Process

- Westinghouse/Shaw Consortium is the EPC provider for the complete AP1000® standard plant
- Consortium will complete all “Standard Plant” ITAAC under Licensees’ oversight
 - Planning
 - Status Tracking
 - Performance
 - Documentation
 - ITAAC Completion Package Preparation
 - Maintenance

Generic ITAAC Issues – Steady Progress



- **2007** – New Rules on ITAAC Closure
- **2008** – NEI 08-01 ITAAC Closure Guidance
- **2010-11** – ITAAC Maintenance Guidance
- **2010-11** – ITAAC Closure & Verification Demonstration Project
- **2011-12** – Application of Lessons Learned

*Industry Task Force coordinated by NEI
Working with NRC Staff*



ITAAC Demonstration Project

- Six AP1000 ITAAC selected to demonstrate the ITAAC Closure process
 - NRC Inspection of simulated performance of ITAAC activities
 - Licensee submittal of ITAAC closure letters
 - NRC verification of ITAAC closure
 - Examination of the surge in ITAAC closure letters late in construction
 - Identification and documentation of Lessons Learned

ITAAC Demonstration Project – Lessons Learned



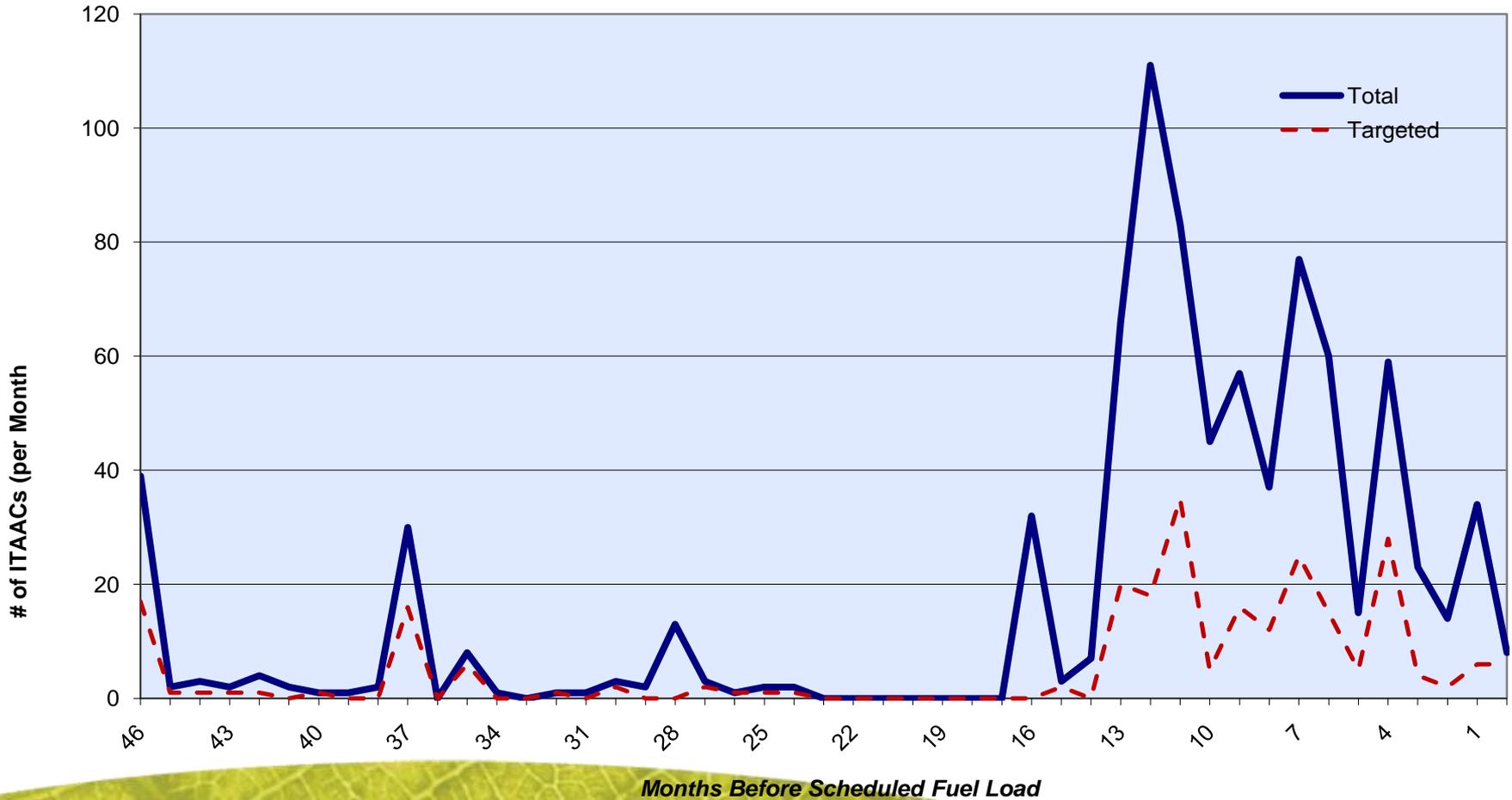
- Project was a very useful learning experience, identifying several opportunities for improvement
- Five main categories of Lessons Learned
 1. Roles/Interfaces: HQ, Region II CCI, Licensee
 2. Information Management Systems (Licensee and NRC)
 3. Resolve differing interpretations of ITAAC
 - Ongoing CIP Task Force Discussions
 - Update NEI 08-01 with additional guidance when necessary
 4. Assuring Sufficient Information in ITAAC Closure Letters
 5. Mitigate impact of ITAAC Surge

Lesson Learned – Closure Letter Information



- Lesson – Different expectations on closure letter content for ITAAC without a similar NEI 08-01 example resulted in re-submittal of closure letters
- Goal - Provide additional confidence and certainty in the content of ITAAC closure letters
- Activity – “Expanded ITAAC Closure Notification Project”
 - Westinghouse/NEI will prepare approximately 30 additional example letters
 - More than 80% of AP1000 ITAAC will be represented
 - Letters reviewed with NRC staff at CIP Task Force Public Meetings
 - Letters added to NEI 08-01 after mutual NRC/NEI concurrence

Lesson Learned – Forecast ITAAC Surge



Lesson Learned – ITAAC Surge Mitigation

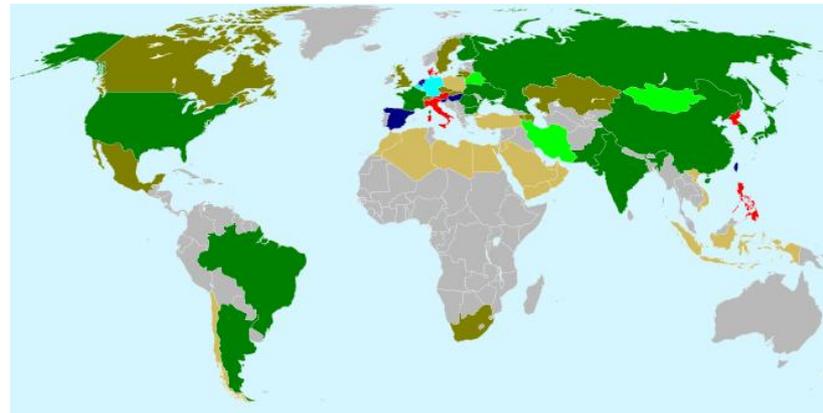
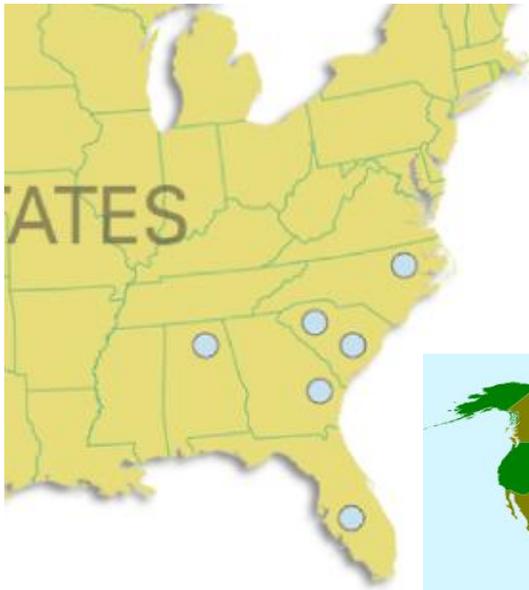


- Lesson – By their nature, ITAAC require verification of the as-built plant, and therefore most occur late in construction
- Goal – Mitigate the challenges associated with this surge
- Factors Identified During Demo Project
 - Work frequently occurs well in advance of Closure Letter submittal (Example: ASME ITAAC)
 - Many of the latest ITAAC are pre-operation tests, which involve a well understood process with significant NRC Inspector involvement
- Additional Activities In-Progress
 - Detailed planning for each ITAAC
 - Focus on process efficiency
 - Leverage CIP Task Force work to reduce process uncertainty

Standardization and the Fleet Approach



The vision is to identify and apply common activities to the entire AP1000 Fleet



Standardization and the Fleet Approach

- ITAAC Closure Plans for each Standard Plant ITAAC
- Equipment Qualification applicable to all AP1000 units
 - Standard EQ Documentation Package used as basis for closing seismic and harsh environment qualification ITAAC for each unit
- First/First-3 of a Kind Pre-Operational Testing
 - Demonstration of key functional capabilities unique to AP1000
 - Apply stringent standard technical requirements to justify applicability to all units and regulatory frameworks