

Continuing Progress Towards Deployment of SMRs

NRC-Industry Periodic Update Meeting on DI&C

July 31, 2013

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SMRs – from Concept... to Detailed Design

- Continuing progress towards DCA:
 - Westinghouse DCA in 2Q 2014
 - Generation mPower DCA in 3Q 2014
 - NuScale DCA in 3Q 2015
 - Holtec DCA in 3Q 2016
- Lead plant site-specific applications:
 - TVA's CPA in 2Q 2015
 - Ameren's COLA TBD

Safety/Security Enhancements thru Design Innovation

- Simple, passive protection against low probability, beyond-design-basis events
- Elimination of sets of Design Basis Events via design features
- Long-term passive cooling w/o offsite support
- Below-grade containment – protection against aircraft crashes
- Flood protection

Applying Lessons Learned

- **Recently completed and ongoing DC & COL reviews:**
 - Level of detail in licensing documents
 - ITAAC closure process
 - digital I&C
 - Cyber Security
 - Changes during construction
 - Fukushima LL
- **Pre-Application engagement with NRC staff**
- **Design-specific Review Standards**
- **EPRI Utility Requirements Document for SMRs**

Generic Regulatory Issues

- ✓ NRC Annual Fees
- ✓ Decommissioning Funding
- ✓ Pre-Application Engagement
- ✓ Modularity –Licensing
- ✓ Control Room Staffing
- ✓ Price-Anderson/liability
- ✓ Security
- Source Term (NEI TF position paper submitted in Dec 2012)
- Emergency Planning Zone (NEI TF paper expected August 2013)

Summary

- SMRs have significant potential to meet future clean, base-load power generation needs safely and in more affordable increments
- Stable and predictable regulatory process is essential
 - NEI coordinating industry position development and working closely with NRC staff through frequent public meetings