



AP1000 DAC / ITAAC

Inspection & Related Activities

T.R. Fredette, PE

NRO/DCIP/CIPB

thomas.fredette@nrc.gov



Focus Areas

- Digital I&C DAC/ITAAC
- Piping Design & PRHA DAC
- HFE DAC
- Lessons Learned
- Review of 2012 Objectives

Digital I&C

- Initial ITAAC inspection completed 4/12; inspection report issued 6/12 ([ML12171A058](#))
- Issues identified with PMS software development and V&V process
- SNC corrective actions on-going
- Interaction continues with DCWG:
 - determine impact of inspection on I&C schedule (PMS and DAS)
 - identify window and plan for inspection of PMS-CIM (I&C DAC-related ITAAC); expect to conduct inspection late 2012



Piping Systems

- Completed tabletop of Piping and PRHA DAC inspection process 7/12
- Numerous action items identified between WEC and Staff
 - piping package content and reports
 - inspection procedure upgrades
 - clarification of inspection protocols, etc.
- Class 2/3 piping package availability – late 2012
- Class 1 piping package availability – 2013
- Continued interaction with DCWG to work through action items and prep for first inspection

Human Factors Engineering (HFE)

- Staff and AP1000 DCWG interactions on-going to work through:
 - potential changes to DCD
 - impacts on ISV schedule,
 - consensus on a “completed” I&C implementation (to support ISV), simulator development, operator training needs, etc.
- HFE DAC inspection procedure for ISV (IP65001.23) complete; other HFE IPs in development

Lessons Learned

- Understand the ITAAC language and intent; align inspection scope accordingly
- Use risk insights to plan scope of inspection
- Pre-brief from the licensee/vendor
- Virtual reading room (e.g. sharepoint site)
- Licensing POC to support inspections at a vendor facility
- Utilize technical staff for inspection support; provide just-in-time inspection primer as needed
- Use all available inspection tools (e.g. strategy docs, ConE)

2012 Goals

- Complete all planned I&C inspections ✓
- Exercise and “burn-in” the DI&C inspection process (opportunities exist)
- Continue to compile/incorporate tangible lessons learned
- Complete Piping inspection tabletop ✓
- Complete first piping package inspection
- Complete all HFE inspection procedures
- Update IMC 2503 to include DAC inspection ✓
- Brief ACRS on progress/results