



2012 DAC Update

Inspection & Related Activities

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Objective

- **Highlight 2011 DAC W/G progress**
- **Provide details of AP1000 DAC inspection focus areas (3 key disciplines)**
- **Overview of planned inspection activities for 2012**

2011 Re-Cap

- **Prelude: Fukushima event forced suspension of STP DAC initiative and DAC WG focus shift (March)**
- **Engaged AP1000 DCWG regarding Piping and DI&C DAC (public meetings May through Oct)**
- **Completed DAC inspection procedures for Piping and DI&C (Sept – Dec)**
- **Initiated development of procedures for HFE DAC (Oct)**
- **ACRS briefing (Nov)**

AP1000 Focus

- Human Factors DAC
 - ITAAC 3.2.1a - d
- Piping Design DAC
 - VEGP and VCS site-specific ITAAC
- Digital I&C DAC
 - ITAAC 2.5.2.14
- Digital I&C (non-DAC)
 - ITAAC 2.5.1.4 & 2.5.2.11-13
- Note- all are “Report” ITAAC

HFE DAC

- **Procedures in development:**
 - **IP 65001.23 “Integrated System Validation” (ITAAC 3.2.1.c(i) and c(ii))**
 - **IP 65001.24 “Task Support Verification” (ITAAC 3.2.1.a)**
 - **IP 65001.25 “Design Verification” (ITAAC 3.2.1.b)**
 - **IP 65001.26 “Issue Resolution Verification” (ITAAC 3.2.1.d)**
- **ISV procedure has priority**
- **Drafts of all IPs due 6/2012**
- **Dialog w/ DCWG initiated (re: schedule)**



Piping DAC

- IPs 65001.20 and 21 issued for piping design and PRHA site-specific ITAAC
- DCWG pursuing acceptability of WESTEMS™ tool for Class 1 piping fatigue analysis (TR and LAR)
- Staff to tabletop inspection process early Summer 2012
- Expect non-Class 1 piping packages to be available late Summer 2012
- Anticipate inspections of first Class 1 piping packages 1Q/2013
- Frequent engagement w/ DCWG

Digital I&C DAC

- IP 65001.22 issued; inspection tool for all DI&C development ITAAC
- Planned inspections:
 - March 2012; ITAAC 2.5.2.11.b (PMS development process “system definition” phase) – will include ITAAC 2.5.2.12 (process management)
 - July 2012; ITAAC (DAC) 2.5.2.14 (PMS CIM development)
 - ~ October 2012; ITAAC 2.5.2.11.c (PMS design/implementation)
 - ~ early 2013; ITAAC 2.5.1.4 (DAS S/W development)
- RII will lead all inspections w/ NRO support



2012 Goals

- **Complete all planned inspections**
- **Exercise and “burn-in” the DI&C inspection process**
- **Compile any and all tangible lessons learned**
- **Brief ACRS on progress/results (late 2012)**
- **Incorporate lessons learned**
- **Complete Piping inspection tabletop; Plan & stage for Piping DAC inspection in 2013**
- **Anticipate/prepare for other design centers**



Questions??