

SCHEDULING NOTE

Title: **BRIEFING ON DIGITAL INSTRUMENTATION & CONTROLS (I&C) (Public)**

Purpose: To provide the Commission with an updated status on digital systems licensing activities to date and lessons learned: licensing of digital conversions for existing plants, licensing of digital systems for new reactors, research on digital systems, and staff efforts to improve the regulatory infrastructure for review of digital systems.

Scheduled: **February 1, 2011**
9:00 am

Duration: Approx. 2 hours and 35 minutes

Location: Commissioners' Conference Room, 1st floor OWFN

Participants: **Presentation**

External Panel **50 mins.***

C. Keith Paulson, Senior Technical Manager, Mitsubishi Nuclear Systems 10 mins.*
Topic: New reactor vendor perspective on the current digital I&C licensing process and challenges

Tom Sliva, Vice President, New Plant Project Management and Construction, Areva 10 mins.*
Topic: New reactor applicant perspective on the current digital I&C licensing process and challenges

Tom Ray, Oconee Nuclear Station Engineering Manager, Duke Energy 10 mins.*
Topic: Implementation phase of the digital I&C upgrade to the Oconee plants

Scott Patterson, I&C Manager, Pacific Gas and Electric (Diablo Canyon) 10 mins.*
Topic: Status of preparations to pilot Interim Staff Guidance on licensing process and industry perspective on regulatory stability

Gerard Holzmann, Director, Lab for Software Reliability, Jet Propulsion Laboratory, NASA 10 mins.*
Topic: Digital I&C software reliability

Commission Q & A **25 mins.**

Break **5 mins**

NRC Staff Panel

45 mins.*

Bill Borchardt, Executive Director for Operations

Jack Grobe, Deputy Director for Engineering and Corporate Support, NRR, and
Chairman, Digital Instrumentation and Controls Steering Committee

Thomas Bergman, Director, Division of Engineering, NRO

Stuart Richards, Deputy Director, Division of Engineering, RES

Pat Hiland, Director, Division of Engineering, NRR

Steve Arndt, Senior Technical Advisor for Digital I&C, Division of Engineering, NRR

Topics:

- DI&C Steering Committee Activities
- Licensing Activities
 - Experience from recent licensing activities
 - Current status of digital I&C upgrade for operating reactors
 - Current status of digital I&C reviews for new reactors
- Research Programs to support digital system reviews
 - Digital I&C research at national labs
 - Operational experience
 - Failure modes identification and analysis
 - Digital system PRA research
- International Interactions

Commission Q & A

25 mins.

Discussion – Wrap-up

5 mins.

*For presentation only and does not include time for Commission Q & A's