

## SCHEDULING NOTE

<b>Title:</b>	<b>Briefing on Digital Instrumentation and Control (Public Meeting)</b>	
<b>Purpose:</b>	To discuss with the Commission the progress in implementing the regulatory infrastructure for digital and instrumentation control (DI&C) systems, and industry initiatives in implementing DI&C	
<b>Scheduled:</b>	<b>October 25, 2018 9:00 am</b>	
<b>Duration:</b>	Approx. 3 hours	
<b>Location:</b>	Commissioners' Conference Room, 1 <sup>st</sup> Floor OWFN	
<b>Participants:</b>		<b>Presentation</b>
<b><u>External Panel</u></b>		<b>40 mins.*</b>
<b>Bill Pitesa</b> , Chief Nuclear Officer, Nuclear Energy Institute		8 mins.*
<u>Topics:</u>		
• Industry perspectives on:		
○ Progress on publishing and implementing guidance for digital I&C upgrades at nuclear power plants		
○ Planned digital I&C capital improvements at nuclear power plants		
○ NRC licensing and oversight of digital I&C		
○ Transformation Team DI&C recommendations		
<b>Frank Novak</b> , Senior Systems Engineer, GE Hitachi Nuclear Energy, Instrumentation and Control Group; and Chair of IEEE Nuclear Power Engineering Committee (NPEC) Working Group 6.3		8 mins.*
<u>Topics:</u>		
• IEEE perspectives on:		
○ Recent digital I&C upgrades at nuclear power plants		
○ NRC licensing of digital I&C		
○ NRC Transformation Team recommendations		
<b>Clayton Scott</b> , Senior Vice President – Deputy, Global I&C Business, Framatome Inc.		8 mins.*
<u>Topic:</u>		
• Vendor's perspectives on international practices and standards, commercial grade dedication, and NRC's digital I&C platform approval process		

**George Romanski**, Chief Scientific and Technical Advisor for Aircraft Computer Software, Federal Aviation Administration 8 mins.\*

Topics:

- Federal Agency’s perspectives on approaches for software reliability in critical safety systems, experience in the aviation industry guidance and standards for digital I&C
- Digital implementation and operational experience

**Dr. John P. Thomas**, Professor, Massachusetts Institute of Technology 8 mins.\*

Topic:

- Subject matter experts views on addressing common cause failure hazards, addressing evolving digital technologies, and perspectives on regulatory acceptance of digital I&C

**Commission Q & A** 50 mins.

**Break** 5 mins.

**NRC Staff Panel** 40 mins.\*

**Margaret Doane**, Executive Director for Operations  
**Ho Nieh**, Director, Office of Nuclear Reactor Regulation (NRR)  
**Eric Benner**, Director, Division of Engineering, NRR  
**Michael Waters**, Chief, Instrumentation and Control Branch, NRR  
**Rossnyev Alvarado**, Digital I&C Engineer, NRR  
**Dinesh Taneja**, Sr. Electronics Engineer, NRO

Topics:

- Status of Digital I&C Integrated Action Plans (SECY-16-0070)
  - Digital Upgrades under 10 CFR 50.59: Status of guidance development, implementation and inspection training and lessons-learned in guidance improvements
  - New Licensing Approaches for Major Digital Systems: Licensing and digital I&C platform approval status and status of guidance development, and future risk-informed approaches and digital I&C categorization
  - Addressing Digital Common Cause Failure (CCF): Key safety and regulatory issues; NRC and industry guidance development; and graded approaches for evaluating diversity and defense-in-depth
  - Broader Modernization Activities: Commercial grade dedication; risk-informing initiatives and CCF research; advanced reactor I&C framework; as well as relevant transformation team recommendations

**Commission Q & A**

**50 mins.**

**Discussion – Wrap-Up**

**5 mins.**