

March 03, 2022

Title: NRC Workshop on Digital Instrumentation and Controls (D&IC) : Licensing and Inspection Lessons Learned from Recent D&IC Modernization Projects

Date(s) and Time(s): March 23, 2022, 09:00 AM to 04:30 PM ET

Location: Webinar

Category: This is an Information Meeting with a Question and Answer Session. The purpose of this meeting is for the NRC staff to meet directly with individuals to discuss regulatory and technical issues. Attendees will have an opportunity to ask questions of the NRC staff or make comments about the issues discussed throughout the meeting; however, the NRC is not actively soliciting comments towards regulatory decisions at this meeting.

Purpose: The NRC staff will share insights and lessons learned in applying regulatory tools for digital instrumentation and controls (I&C) modernization projects. This workshop will primarily focus on NRC and industry perspectives on the licensing and inspection lessons learned from recent digital I&C modernization projects, and Human Factor Engineering (HFE) reviews including Integrated System and Multi-stage Validation (ISV and MSV) Testing. Members of the public and Utilities interested in modernizing digital instrumentation and controls in their plants are encouraged to attend.

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Participants:	<u>NRC</u>	<u>External</u>
	Office of Nuclear Reactor Regulation	Nuclear Energy Institute (NEI) NextEra Energy, Inc. Constellation Energy Generation, LLC Public Entergy Operations, Inc Constellation Energy Generation, LLC

Teleconference:	<u>Bridge Number</u>	<u>Conference ID</u>	<u>Pass Code</u>
	(301) 576-2978		107785040#

Webinar:	<u>URL</u>	<u>Meeting Number</u>	<u>Password</u>
	<a href="https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmZiYTQ1MTQtOTNmNi00NzgyLTg4NWQtZThjNjE2YWRIMWVi%40thread.v2/0?context=%7b%22id%22%3a%22e8d01475-c3b5-436a-a065-5def4c64f52e%22%2c%22oid%22%3a%22e8be2fdf-5b32-4612-8996-a6187b59efb0%22%7d">https://teams.microsoft.com/l/meetup-join/19%3ameeting_NmZiYTQ1MTQtOTNmNi00NzgyLTg4NWQtZThjNjE2YWRIMWVi%40thread.v2/0?context=%7b%22id%22%3a%22e8d01475-c3b5-436a-a065-5def4c64f52e%22%2c%22oid%22%3a%22e8be2fdf-5b32-4612-8996-a6187b59efb0%22%7d</a>	107785040#	N/A

Comments: Interested members of the public can participate in this meeting via video conference or telephone conference. Microsoft Teams is the video conferencing platform that will be used for this meeting. For additional details, please call the NRC meeting contact listed on the NRC public meeting notice or call the NRC toll-free number, 1-800-368-5642, and ask the operator to be connected to the meeting contact (state the name of the

are available in the Agency wide Document Management System (ADAMS) Accession Numbers ML22077A409, ML22076A191, and ML22080A021, respectively, and the workshop final agenda is available in ADAMS Accession Number ML22080A002.

The NRC provides reasonable accommodations to individuals with disabilities where appropriate. If you need a reasonable accommodation to participate in a meeting or need a meeting notice or the transcript or other information from a meeting in another format (e.g. braille, large print), please contact Anne Silk, NRC Reasonable Accommodations Coordinator, at [Anne.Silk@nrc.gov](mailto:Anne.Silk@nrc.gov) or call directly at 301-287-0745. Determinations on requests for reasonable accommodation will be made on a case-by-case basis. Ten (10) days' advance notice is requested to try to ensure availability; however, every effort will be made to address a request for reasonable accommodations with less notice.

# PUBLIC MEETING AGENDA

## NRC Workshop on Digital Instrumentation and Controls (D&IC) : Licensing and Inspection Lessons Learned from Recent D&IC Modernization Projects

March 23, 2022, 09:00 AM to 04:30 PM ET

### Webinar

Time	Agenda for NRC Digital I&C Workshop March 23, 2022	Presenter
<b>INTRODUCTION AND WORKSHOP GOALS</b>		
9:00 AM – 9:15 AM	Opening remarks	NRC/NEI
<b>RECENT DIGITAL I&amp;C - LICENSING LESSONS LEARNED (NRC)</b>		
9:15 AM – 10:55 AM	Digital I&C Licensing Lessons Learned <ul style="list-style-type: none"> <li>● Intent of the Alternate Review Process (ARP) (5 minutes)</li> <li>● Deviations from the ISG-06 guidance (5 minutes)</li> <li>● Licensing and System Development Schedules Overlap (5 minutes)</li> <li>● ISG -06 Enclosure B (20 minutes)                             <ul style="list-style-type: none"> <li>- Information to be submitted with the LAR</li> <li>- Information not available at time of LAR Submittal</li> <li>- Submittal Quality Matters</li> </ul> </li> <li>● Scope of Licensing Audits (5 minutes)</li> <li>● Vendor Oversight Plan and Summary (40 minutes)</li> <li>● Integrated Licensing Reviews (20 minutes)</li> </ul>	NRC
10:55 AM – 11:05 AM	<b>BREAK</b>	
11:05 AM – 12:35 PM	<b>ISG-06 INSPECTION LESSONS LEARNED (NRC)</b>	
	ARP Inspection Lessons Learned <ul style="list-style-type: none"> <li>● Vendor Inspections (30 mins)                             <ul style="list-style-type: none"> <li>- Vendor Inspection Process Overview</li> <li>- Inspection During Requirement Phase - Lesson Learned</li> <li>- Factory Acceptance Test (FAT) Lessons Learned</li> </ul> </li> <li>● Regional Inspections (30 mins)                             <ul style="list-style-type: none"> <li>- Regional Inspection Process Overview</li> <li>- IP 52003 Update and Application</li> <li>- FAT Lessons Learned</li> <li>- SAT Lesson Learned</li> </ul> </li> <li>● Staff Response to NEI Comments on IP 52003 (25 mins)</li> <li>● Op Experience - Smart Sample for 50.59 mods (5 mins)</li> </ul>	NRC/(Regions)
12:35 PM – 1:30 PM	<b>LUNCH BREAK</b>	
1:30 PM – 3:00 PM	<b>HUMAN FACTOR ENGINEERING (HFE) TREVIEWS</b>	
	<ul style="list-style-type: none"> <li>● Human Factor Engineering (HFE) Reviews abd simulator ISV Testing (1 hour)</li> </ul>	NRC
	<ul style="list-style-type: none"> <li>● NEI Position on HFE Validation - ISV/MSV (30 minutes)</li> </ul>	NEI
3:00 PM – 4:00 PM	<b>ISG-06 REFLECTION (INDUSTRY) Licensing and Inspection Lessons Learned</b>	
	Waterford Experience <ul style="list-style-type: none"> <li>● Licensing Process</li> <li>● Installation Activities</li> </ul> Industry Presentation <ul style="list-style-type: none"> <li>● Lessons Learned</li> <li>● Challenges and Concerns</li> </ul>	Entergy  NextEra Constellation
4:00 PM – 4:30 PM	<b>OPEN DISCUSSION AND NEXT STEPS</b>	
	Open discussion time and next steps	ALL
4:30 PM	<b>CLOSING</b>	
	Closing remarks	NEI/NRC

ADAMS Accession Number: ML22080A153

Office	NRR/DORL/LPL4/PM	NRR/DEX/ELTB/BC	NRR/DEX/EICB/BC
Name	Bhagwat Jain	Jeanne Johnston	Michael waters
Date	03/02/2022	03/03/2022	03/03/2022

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Link to meeting details: <https://www.nrc.gov/pmns/mtg?do=details&Code=20220192>