

**Integrated Action Plan for the
Modernization of the NRC's Digital
I&C Regulatory Infrastructure
-Revision 2 Update-**

Public Meeting
January 10, 2017

Discussion Topics

- Key Messages
- Integrated Action Plan (IAP) Strategy for Digital Instrumentation and Controls (I&C)
- IAP Revision 2 Overview
- IAP Revision Schedule
- Modernization Plan Updates (IAP Review)

Key Messages

- IAP activities are ongoing and are focused on tactical and strategic outcomes with near term products expected
- Industry is concerned that activities to date have not enabled implementable results
- Staff is working with industry to produce guidance for implementable results
- Frequent public meetings and workshops
- Staff evaluated industry feedback to the IAP and incorporated applicable changes

IAP Strategy for DI&C Modernization

- Objective: Modernize the digital I&C regulatory infrastructure to enhance the NRC's capability to be more timely, efficient, and effective in ensuring safety, and provide a consistent and predictable regulatory process
 - Tactical – Continue to prioritize and implement the regulatory activities needed to provide regulatory clarity and support industry confidence to perform digital I&C upgrades (MPs #1-4A)
 - Strategic – Assess and implement broader modernization of regulatory infrastructure (MP #4B)

IAP Revision 2 Overview

- Summary: Updated to list the specific key topics that have resulted in corresponding detailed modernization programs
- Sections 1-3: Editorial changes
- Section 4: Removed
- Section 5: Modernization Plans updated to reflect current strategies and implementation schedules

IAP Revision Schedule

ACTION	DATE
Receive Preliminary Stakeholder Input	Fall 2017
Issue Draft IAP Rev 2 for Stakeholder Review	January 2018
Public Meeting – Category 2	January 2018
Issue IAP Rev 2	End of January 2018
ACRS Brief	April/May 2018

Modernization Plans Updates

- MP #1 – Protection Against Common Cause Failure (CCF) [IAP, Page 10]
 - MP#1A – Guidance for developing and documenting acceptable qualitative assessments crediting the proposed design attributes, quality measures, operating history in support of 10 CFR 50.59 evaluations of proposed digital I&C modifications [RIS 2002-22, Supplement 1]
 - MP #1B – Evaluation of NEI 16-16.
 - MP #1C – Evaluate NRC’s current position on defense against CCF in digital I&C systems and components

Modernization Plans Updates (cont'd)

- MP#2 – Considering Digital Instrumentation & Controls in Accordance with 10 CFR 50.59 [IAP, Page 16]
- MP #3 – Acceptance of Digital Equipment [IAP, Page 19]
 - Commercial Grade Dedication

Modernization Plans Updates (cont'd)

- MP #4 – Assessment for Modernization of the Instrumentation & Controls Regulatory Infrastructure [IAP, Page 23]
 - MP #4A: Evaluation and Identification of Tactical Activities
 - Tactical Activity (i): Streamline the licensing process guidance - Update to DI&C-ISG-06
 - Tactical Activity (ii): 10 CFR 50.59 Inspection Training and Guidance
 - MP #4B: Develop Strategic activities for long-term improvements to the regulatory infrastructure.

Questions?