

Digital I&C Integrated Action Plan for the Modernization of NRC Regulatory Infrastructure

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Meeting Purpose

- Present status of the revised action plan
- Provide opportunity for stakeholder questions and concerns
- Goal: Identify significant concerns

Strategy for the plan

- Near Term - Prioritize and implement the regulatory activities needed to provide near-term regulatory clarity and support industry confidence to perform DI&C upgrades
- Long Term – Assess and implement Modernization of regulatory infrastructure

Near Term Priorities

- Assess Potential Common Cause Failures (CCF)-
timeline extended
- Guidance for 10 CFR 50.59 Upgrades remains a
top priority
- Commercial Grade Dedication (CGD) of Digital
Equipment added to the plan
- Identify complete set of activities to meet near
term objective

Modernization of Regulatory Infrastructure – Identify Near- and Long-Term Priorities

Actions to improve regulatory predictability

- Improved Licensing Review Guidance for DI&C Systems
- Improvement in Regulatory Consistency from Licensing to Inspection
- Incorporation by Reference (IBR) of IEEE Standard 603-2018 into 10 CFR 50.55(a)
- Endorsement of IEEE Standard 7-4.3.2 into Regulatory Guide
- Embedded Digital Devices (EDDs)

Modernization of Regulatory Infrastructure – Identify Near- and Long-Term Priorities

Actions to improve regulatory infrastructure

- Holistic Review of the Regulatory Infrastructure
- Improved Guidance for Evaluation of Highly-Integrated Digital Technologies
- Consistency and Integration of Multiple Regulatory Guidance Documents
- Improved Guidance for Evaluation of Proposed Alternatives to Regulatory Guides and Standards
- Improved Process for DI&C Topical Report Evaluations