

**Supporting Documents
Common-Cause Failure (CCF) SECY Paper Outline
for ACRS DI&C Subcommittee Meeting
May 20, 2022**

(A) Key Documents

1. **SECY-91-292**, “Digital Computer Systems for Advanced Light-Water Reactors,” dated September 16, 1991 (ADAMS Accession No. ML12222A030)
2. **SECY-93-087**, “Policy, Technical, and Licensing Issues Pertaining to Evolutionary and Advanced Light-Water Reactor (ALWR) Designs” (Item II Q), dated April 2, 1993 (ADAMS Accession No. ML003708021)
3. **SRM-SECY-93-087**, “Policy, Technical, and Licensing Issues Pertaining to Evolutionary and Advanced Light-Water Reactor (ALWR) Designs,” (Item II Q), dated July 21, 1993 (ADAMS Accession No. ML003708056)
4. **Evaluation Plan and EDO Alignment Agreement** to Expand the Current Common-Cause-Failure Policy for Digital Instrumentation and Controls Systems to Allow Consideration of Risk-Informed Alternatives to the Staff Requirements Memorandum to SECY-93-087 (ADAMS Accession No. ML22014A412)
5. **Summary of the Public Comment Gathering Meeting** on Staff’s Plan to Expand the Current Common-Cause-Failure Policy for Digital Instrumentation and Controls Systems to Allow Consideration of Risk-Informed Alternatives to the Staff Requirements Memorandum to SECY-93-087, held on February 15, 2022 (ADAMS Accession No. ML22054A002)

(B) Other Digital I&C CCF Documents

6. **SECY-09-0061**, “Status of The Nuclear Regulatory Commission Staff Efforts to Improve the Predictability and Effectiveness of Digital Instrumentation and Control Reviews,” dated April 14, 2009 (ADAMS Accession No. ML090790409)
7. **SRM-SECY-15-0106**, “Rulemaking: Proposed Rule: Incorporation by Reference of Institute of Electrical and Electronics Engineers Standard 603-2009, “IEEE Standard Criteria for Safety Systems for Nuclear Power Generating Stations,” dated February 25, 2016 (ADAMS Accession No. ML16056A614)
8. **SRM-SECY-16-0070**, “Integrated Strategy to Modernize the Nuclear Regulatory Commission’s Digital Instrumentation and Control Regulatory Infrastructure,” Rev. 3, dated January 2019 (ADAMS Accession No. ML16126A137)

9. **SECY-18-0090**, “Plan for Addressing Potential Common Cause Failure in Digital Instrumentation and Control,” dated September 12, 2018 (ADAMS Accession No. ML18179A067)
10. **BTP 7-19, Rev. 8**, “Guidance for Evaluation of Defense- In- Depth and Diversity to Address Common-Cause Failure Due to Latent Design Defects in Digital Safety Systems,” dated January 2021 (ADAMS Accession No. ML20339A647)
11. **Regulatory Issue Summary 2002-22, Supplement 1**, “Clarification on Endorsement of Nuclear Energy Institute Guidance in Designing Digital Upgrades in Instrumentation and Control Systems,” dated May 31, 2018 (ADAMS Accession No. ML18143B633)

(C) Risk-Informed Decision-Making Documents

12. **Final Policy Statement**, “Use of Probabilistic Risk Assessment Methods in Nuclear Regulatory Activities” ([60 FR 42622](#), August 16, 1995)
13. **SRM-SECY-98-144**, “White Paper on Risk-Informed and Performance-Based Regulation,” dated March 1, 1999 (ADAMS Accession No. ML003753601)
14. **RG 1.174, Rev. 3**, “An Approach for Using Probabilistic Risk Assessment in Risk-Informed Decisions on Plant-Specific Changes to the Licensing Basis,” dated January 2018 (ADAMS Accession No. ML17317A256)
15. **RG 1.200, Rev. 3**, “Acceptability of Probabilistic Risk Assessment Results for Risk-Informed Activities,” dated December 2020 (ADAMS Accession No. ML20238B871)

(D) Industry Documents

16. **NEI 20-07, Draft D**, “Guidance for Addressing Common Cause Failure in High Safety-Significant Safety-Related DI&C Systems” (ADAMS Accession No. ML21278A471)
17. **NEI White Paper**, “Digital Common Cause Failure Policy Considerations,” dated April 8, 2022 (ADAMS Accession No. ML22109A208)