Common Cause Failure

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Topics

• Today’s topic covers recent NRC activities associated with the ongoing NRC effort to re-evaluate its position on Common Cause Failure (CCF)
Current NRC activities related to action plan for Common Cause Failures (CCFs) stem from SECY-93-087 – “Policy, Technical, and Licensing Issues Pertaining to Evolutionary and Advanced Light-Water Reactor Designs”

- Focus was on defense against Common-Mode Failures in Digital I&C Systems
- Need to re-evaluate assumptions and options for updating NRC polity in light of the technology evolution
Background:


  - To obtain approval to publish for public comment a proposed rule that would incorporate by reference a voluntary consensus standard for protection systems and safety systems Section 50.55a, “Codes and standards.”
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Background (continued):

• SRM-SECY-15-0106 - Disapproved staff’s recommendation to publish the proposed rule; and directed staff to:
  
  ▪ Develop an integrated strategy plan to modernize the DI&C regulatory infrastructure
  
  ▪ Consider updates to the policy on common-cause failure in SRM-SECY-93-087, “Policy, Technical, and Licensing Issues Pertaining to Evolutionary and Advanced LWR Designs”
  
  ▪ Develop a technical basis to recommend to the Commission possible changes to the current NRC policy
Status of Action Plan Milestones:

- Conduct Public Meetings to gather insights on key technical and policy issues (March 21, June 7, TBD)
- Preparation of technical basis document (October 2016)
- Review/Comment on technical basis document (December 2016)
- Public Meeting to discuss technical basis document and proposed modification to NRC regulatory position (April 2017)
- SECY paper to Commission identifying proposed actions (July 2017)
- Implement resolutions identified in SECY paper (TBD)
Take-Aways:

• NRC is in the process of evaluating and updating policy related to CCF for digital I&C systems

• Documents related to the NRC’s CCF Action Plan have been uploaded to WSPlus at:

  “Resource Library/Regulatory/NRC Common Cause Failure”
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QUESTIONS?