

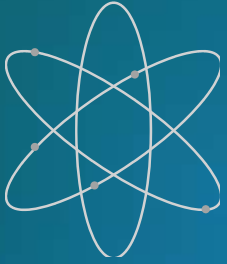


Common Cause Failure

Fall 2016 EQ Technical Conference
Nuclear Utility Group on Equipment Qualification
November 16-18, 2016
Clearwater, Florida

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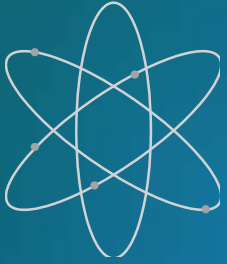
Ron Wise, NEQ Consulting (NUGEQ Technical Consultant (ronwise@aol.com))



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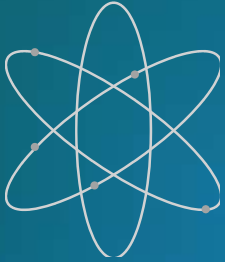
Topics

- Today's topic covers recent NRC activities associated with the ongoing NRC effort to re-evaluate its position on Common Cause Failure (CCF)



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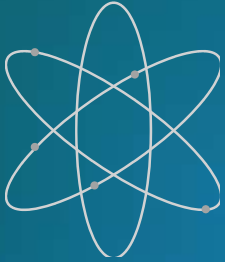
- Current NRC activities related to action plan for Common Cause Failures (CCFs) stem from SECY-93-087 – “Policy, Technical, and Licensing Issues Pertaining to Evolutionary and Advanced Light-Water Reactor Designs”
 - Focus was on defense against Common-Mode Failures in Digital I&C Systems
 - Need to re-evaluate assumptions and options for updating NRC polity in light of the technology evolution



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Background:

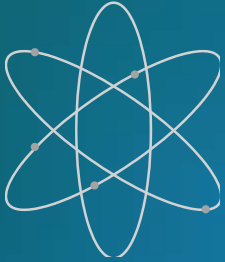
- SECY-15-0106, Proposed Rule - Incorporation by Reference of IEEE Standard 603-2009, “IEEE Standard Criteria for Safety Systems for Nuclear Power Generating Stations”
 - To obtain approval to publish for public comment a proposed rule that would incorporate by reference a voluntary consensus standard for protection systems and safety systems Section 50.55a, “Codes and standards.”



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Background (continued):

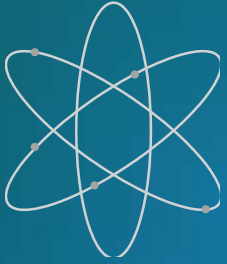
- SRM-SECY- 15-0106 - Disapproved staff's recommendation to publish the proposed rule; and directed staff to:
 - Develop an integrated strategy plan to modernize the DI&C regulatory infrastructure
 - Consider updates to the policy on common-cause failure in SRM-SECY-93-087, "Policy, Technical, and Licensing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



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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)

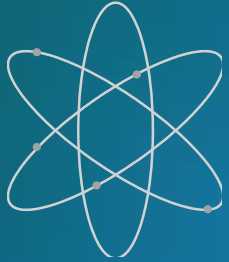


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Take-Aways:

- 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”



Common Cause Failure

QUESTIONS?