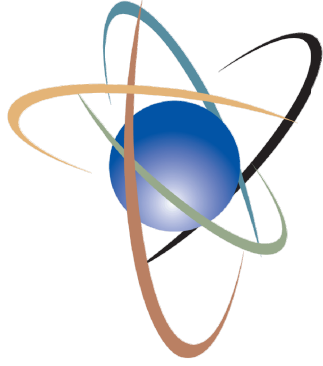




U.S. NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

Public meeting to discuss specific issues related to risk assessment methods used in the NRC Significance Determination Process

Division of Risk Assessment
Office of Nuclear Reactor Regulation

May 19, 2014

NRC Significance Determination Process ~ Risk-Informed Tools

Inspection Manual Chapter
(IMC) 0609
IMC 308, Att. 3 (Technical Basis)

NEI Letter
January 13, 2012
(ML12019A146)

Risk Assessment of Operational Events Handbook

Volume 1 – Internal Events

Exposure Time Modeling – Failure Modeling

Mission Time Modeling – **Common-Cause Failure Modeling** – Recovery Modeling

Multi-Unit Considerations – **Initiating Event Analysis** – **Human Reliability Analysis** – **Loss of**

Offsite Power Initiating Events – **Support Systems Initiating Events** - Analysis Road Map



Revision 2.0
January 2013
SDP Phase 3 • ASP • MD 8.3

NRC Significance Determination Process

~ Rules of Engagement

- Risk-Informed SDP Tools
 - Considered Acceptable Starting Points from Which [They] are to be **Continuously Improved as Experience Was Gained** ...,” page 2, IMC 308, Att. 3, 10/16/2006
- **SDP is an NRC Process!**
 - [It] Is **NOT a Consensus Process** with a Licensee or Other Parties,” page 4, IMC 308, Att. 3, 10/16/2006
- External Stakeholder Participation in SDP Development
 - It is permissible to **make changes which, in the judgment of the staff, DO NOT REQUIRE** external stakeholder engagement,” page 4, IMC 308, Att. 3, 10/16/2006

NRC Significance Determination Process

~ Fundamental Attributes

- **Transparent Regulator**
 - Communication to Stakeholders
- **Enhancements to SDP Tools**
 - Enhance Predictability and Stability of ROP Outcomes and Decisions
 - Meet Timeliness Goals (90-day Clock)
 - Risk Information/Output from Quantitative Assessment is Observable as “Reasonable” Based on Disciplined Approach to Provide One Input to Risk-Informed Decision Making; “.....Basis is Reasoned Based on “Best Available Information” and “.....No Trade Off in Risk Model..”