



Southern
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Vogtle 50.69 Enhancement Submittal

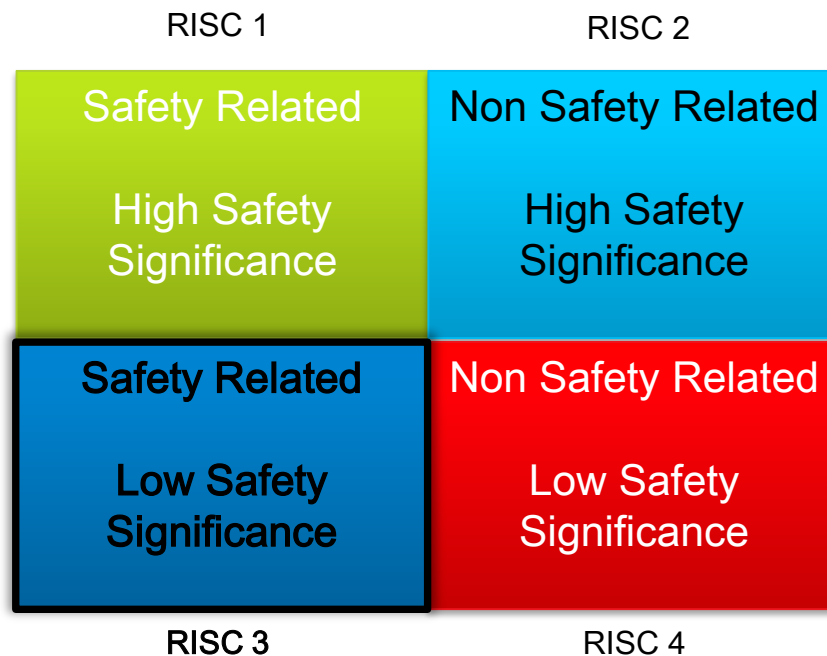
- Background
- Previous Review scopes
- Intentions of this submittal
- Seismic PRA model
 - Peer Review Facts and Observations (F&Os)
 - SPRA Adequacy

Vogtle 50.69 Background

- SNC requested pilot status 50.69 – Dec. 2010
- NRC granted VEGP pilot status - June 2011
- SNC 50.69 LAR submitted – Aug. 2012
- NRC approved VEGP 10 CFR 50.69 – Dec. 2014
- NRC 50.69 inspection - June 13- 30, 2016
- Inspection report provided to SNC Aug. 10, 2016
– NO FINDINGS

Scope of Enhancement Submittal

- Replace Seismic Margins Approach with SPRA model insights
- No other changes to the currently approved risk categorization program



RISC = Risk Informed Safety Class

Operating License Conditions

173	<p>Southern Nuclear Operating Company (SNC) is approved to implement 10 CFR 50.69 using the processes for categorization of Risk-Informed Safety Class (RISC)-1, RISC-2, RISC-3, and RIS-4 structures, systems, and components (SSCs) specified in the licensee amendment request submittals dated August 31, 2012, May 17, 2013, July 2, 2013, September 13, 2013, May 2, 2014, July 22, 2014 and August 11, 2014.</p> <p>The licensee shall implement the items listed in enclosure 1, Implementation items of SNC letter NL-14-0960, dated July 22, 2014, prior to categorizing systems under the process.</p> <p>NRC prior approval, under 10 CFR 50.90, is required for a change to a categorization process that is outside the bounds specified above (e.g., change from a seismic margins approach to a seismic probabilistic risk assessment approach).</p>	As stated in the Additional Condition
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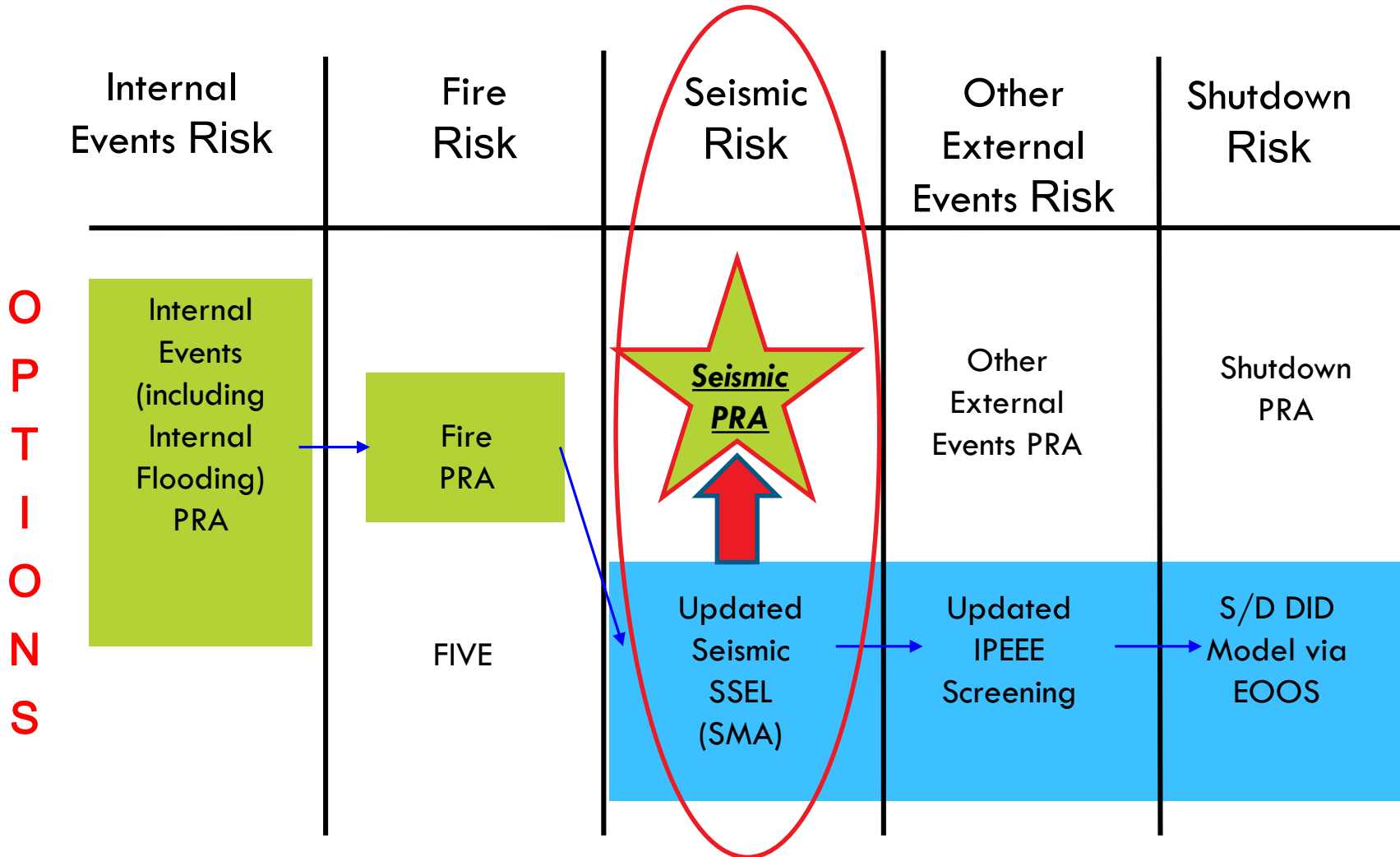
Note: Unit 1 shown. Unit 2 is identical. See Amendment 155

Currently Approved Risk Categorization Tools

- Internal events PRA for internal risk
- Fire PRA for fire risk
- **Seismic margin analysis for seismic risk <Update to SPRA>**
 - Low risk contributor compared to other tools
- Individual Plant Examination of External Events (IPEEE) screening to assess risk from other external hazards (high winds external floods)
- Safety Plan to assess shutdown risk

Options to Address Contributions

AREAS TO ADDRESS



Seismic PRA Model

- High Quality SPRA model
 - PWROG Peer Review conducted November 2014
 - All F&Os have been dispositioned
 - All SRs met at CC II per Addendum B of ASME/ANS Seismic PRA Standard
 - Sources of model uncertainty

Summary

- Long history of VEGP investment in 50.69
- 50.69 process has been extensively reviewed
- Intentions of this submittal
 - NRC acceptance of SPRA in the Approved 50.69 Categorization process
 - High quality Peer Reviewed model
 - One aspect in the determination of safety significance in the Categorization process