SPRAs in the U.S.: How the young generation is working on practicality and communication

Date: September 18, 2018
Location: PSAM 14 Conference, Los Angeles California
The practice of sensitivity studies in a SPRA has proven an effective tool to justify realism needed in fragility calculations.
Today we have the tools to efficiently develop refined models for structures and SSI seismic response analyses.
Today more engineers enjoy a broader knowledge of those components in NPPs with higher contribution to plant seismic risk, from both failure mode and systems perspectives.

1. Refinement to SPRA models and the search for realism.
2. Building structural modelling for SPRA
3. **Plant seismic walkdowns**
4. Data management for SPRAs
5. SPRA-based public communication and engagement
We have developed databases which correlate demand estimates, walkdown data, systems modelling data and fragility calculations.

1. Refinement to SPRA models and the search for realism.
2. Building structural modelling for SPRA
3. Plant seismic walkdowns
4. **Data management for SPRAs**
5. SPRA-based public communication and engagement
1. Refinement to SPRA models and the search for realism.
2. Building structural modelling for SPRA
3. Plant seismic walkdowns
4. Data management for SPRAs
5. **SPRA-based public communication and engagement**

Early 2.1 NTTF submittals in the U.S. have communicated response of NPPs against beyond-design events. This is still an area worth developing for more effective community engagement.
site safety evaluation report
related to the determination of the suitability of the
ISLOTE SITE
for eventual construction of the
NORTH COAST NUCLEAR PLANT
UNIT NO. 1
PUERTO RICO WATER RESOURCES AUTHORITY
APRIL 1979
Docket No. 50-376