

Near Term Task Force Recommendation 2

December 14, 2011

NTTF Recommendation 2

- **Re-evaluate seismic hazards (2.1)**
- **Address new and significant information every 10 years (2.2)**
- **Perform seismic walkdowns (2.3)**

Industry Goals

- **Apply the lessons learned from the Fukushima accident to further enhance the safety of U.S. plants**
- **Implement lessons learned in an integrated, performance-based manner**
- **Mitigate effects of beyond design basis natural phenomena**

Multipronged Approach for Seismic

- **Implement FLEX to enhance capabilities in the near term to mitigate effects of beyond design basis ground motion**
- **Perform seismic walkdowns**
- **Verify conclusions of IPEEE remain valid**
- **Establish process for evaluating the effects of new information and methodologies for estimating seismic hazards**

Diverse & Flexible Mitigation Capability (FLEX)

Emergency Plans
SAMGs
Diverse & Flexible Mitigation Strategy (FLEX)
SBO Coping Capability
Design Basis External Events

Current plus FLEX

Emergency Plans
SAMGs
SBO Coping Capability
Design Basis External Events

Current



Emergency Response

Mitigation

Protection



FLEX Approach

Near-term Safety Enhancements

- **Mitigate the effects of typical risk contributors**
 - **Loss of all AC power**
 - **Loss of ultimate heat sink**
- **Use diverse and flexible strategies to maintain**
 - **Core cooling**
 - **Spent fuel pool cooling**
 - **Containment integrity**
- **Seismic considerations**
 - **Need to be able to access, install, and use the equipment after the event**

Seismic Walkdowns

- Should discuss during public meeting in January
 - Establish purpose, scope, and criteria
 - Develop schedules
- Build on experience from A-46, IPEEE, and TI-183

Verify IPEEE Conclusions

- **Report the status of actions identified in the IPEEE**
- **Determine whether post-IPEEE plant modifications change the conclusions of the IPEEE**

Process for Evaluating New Seismic Hazard Information and Methodologies

- It may be appropriate to rethink the approach for ensuring seismic safety
- Need a process that complements the holistic approach being developed to mitigate beyond design basis external events
- FLEX, walkdowns, and IPEEE verifications allow time to develop this process
- Some issues to consider jointly with NRC:
 - Site characterization/soil profile
 - High frequency
 - Pilot evaluations

Next Actions

- **Develop project plan for accomplishing these activities**
- **Meet with NRC in January to discuss proposed walkdown concept**
- **Ensure that seismic considerations are incorporated into FLEX**
- **Develop and propose appropriate process for dealing with new seismic information**