

Status of Fukushima Rulemaking Efforts

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Background

- Near Term Task Force (NTTF)
Recommendations - Issued July 2011
- Advanced Notice of Proposed Rulemaking (ANPR) for SAMGs - Issued April 2012
- Regulatory Basis for Onsite Emergency Response Capabilities - Issued October, 2013
- Combined rulemaking for SAMGs, EDMGs, SBO and Flex – July 2014
- Draft Rulemaking to Commission – April 2015

Mitigating Strategies Rulemaking



10 CFR 50.155 Mitigation of Beyond-Design-Basis Events

(a) Applicability

- Applies to operating reactors and combined license holders
- Has provisions for decommissioning
- Certain sections apply to “New” reactors



Mitigating Strategies Rulemaking



- (b) Integrated response capability which includes:
- Mitigation strategies for beyond-design-basis external events
 - Extensive Damage Mitigation Strategies (EDMGs)
 - Severe Accident Management Guidelines (SAMGs)
 - Above guidelines integrated with EOPs
 - Sufficient staffing to implement strategies
 - Command and Control structure

Mitigating Strategies Rulemaking

(c) Equipment required for mitigation strategies

- Capability and capacity to maintain or restore core cooling, containment, and fuel pool cooling simultaneously for all units on a site
- Reasonably protected from natural phenomena
- Equipment must receive adequate maintenance
- Must be able to remotely monitor fuel pool level



Mitigating Strategies Rulemaking

(d) Design features (New reactors)

- Enhance coping durations
- Minimize reliance on human actions

(e) Training requirements

- Applies to personnel that perform activities in accordance with the strategies and guidelines
- Based on the Systems Approach to Training as defined in 10 CFR 55.4.



Mitigating Strategies Rulemaking

(f) Drills and Exercises

- Conduct initial drill or exercise to demonstrate the capability to transition and use one or more of the strategies and guidelines and use the communications equipment required by 10 CFR 50, Appendix E, Section VII
- Subsequent drills or exercises must collectively demonstrate use of a strategy or guideline in each area (i.e., SAMG, EDMG, etc.) over an 8 year period



Mitigating Strategies Rulemaking

(g) Change control

- Licensees may make changes in the implementation of these requirements without prior NRC approval
 - Must perform evaluation prior to making changes that demonstrates provisions in this section continue to be met
 - All changes shall be documented and maintained

(h) Implementation

- Power reactors must comply with the provisions of this section no later than 4 years following the effective date of the final rule



Industry Involvement

- **NEI 13-06**, Enhancements to Emergency Response Capabilities for Beyond Design Basis Accidents and Events
 - Addresses training for key personnel to implement BDB event response guidelines and procedures
 - Simulators not required to be updated
 - Includes Ultimate Decision Maker (Command and Control)
 - Addresses Drill and Exercise requirements
 - Demonstrate use of Flex equipment
 - Demonstrate transitions between guidelines
 - NOT associated with EP Exercises

Industry Involvement

- **NEI 14-01**, Emergency Response Procedures and Guidelines for Extreme Events and Severe Accidents
 - Addresses requirement for SAMGs and FSGs
 - Addresses Integration of procedures and guidelines
 - EOPs, FSGs, EDMGs and SAMGs
 - Based on updated Owners Group Guidelines
 - Principles for developing each set of guidelines
 - Describes Command and Control key functions and structure



Implementation Schedule

- Commission currently voting on this proposed rule
- Possibility that SAMGs and New Reactor provisions will be removed from the proposed rule following Commission vote
- Proposed rule out for public comment following Commission vote and SRM
- Final Rule due to Commission 12/2016



Questions



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