



Status of Fukushima Lessons Learned Actions

Joint Steering Committee Meeting
March 31, 2015



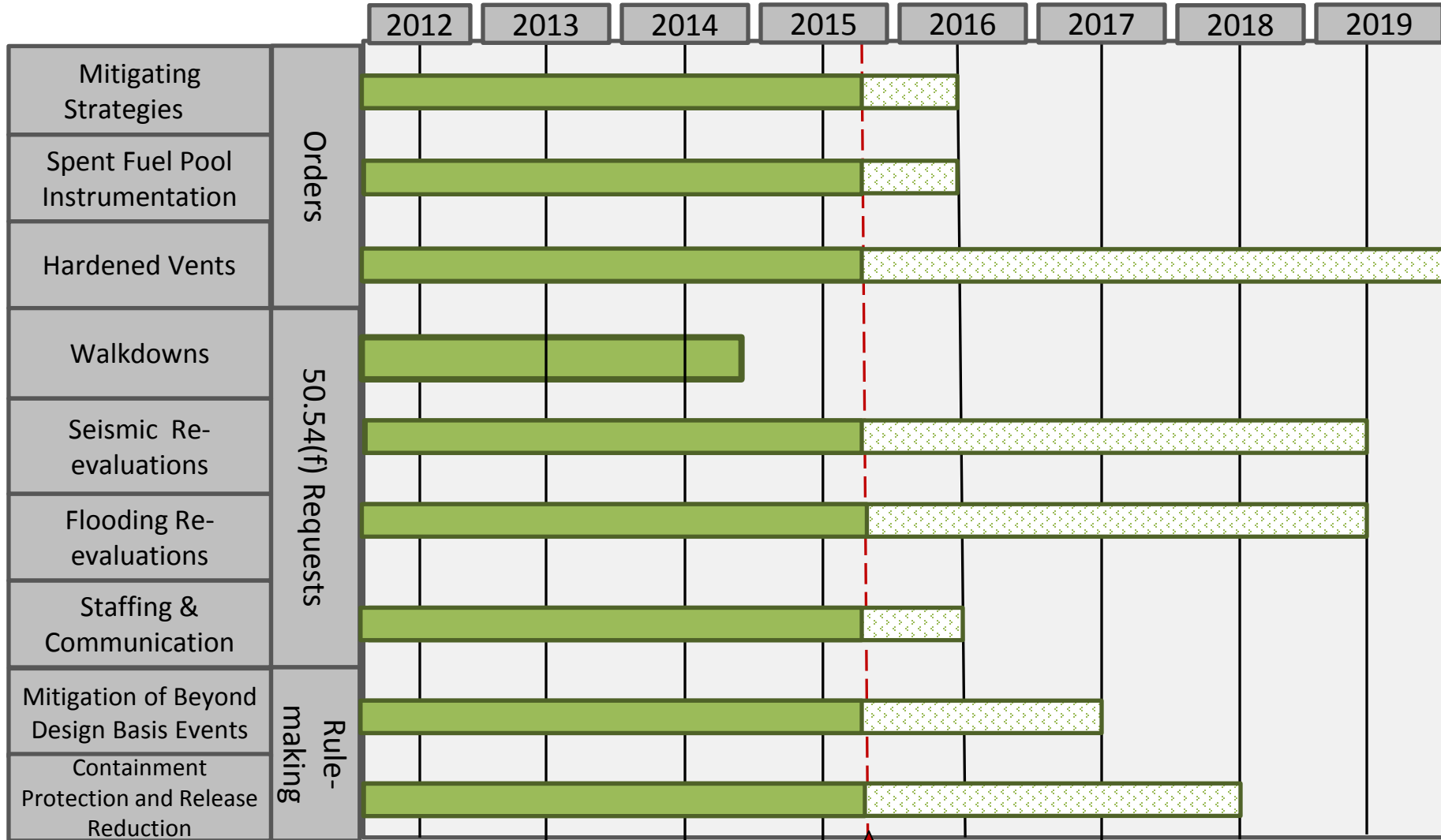
Agenda

- Progress
- Order Status
- Seismic and Flooding Reevaluations
- Flooding Reviews
- Rulemaking Status Updates
- Tiers 2 and 3
- Focus Areas
- Public Comments and Questions



Tier 1 Implementation*

The NRC is on or ahead of schedule in almost every area of Tier 1.



Today

*For illustrative purposes only

Mitigating Strategies Order

- Status
 - 31 of 62 audits complete
 - Support the update to NEI 12-06
 - Watts Bar – first safety evaluation/inspection
- Focus Areas
 - Standard Westinghouse reactor coolant pump seals
 - Extension requests
- Next Steps
 - Writing safety evaluations for Spring 2015 compliance sites
 - Performing inspections at other sites



Severe Accident Capable Hardened Vents

- Phase 1 (Wetwell Vent)
 - Licensee plans submitted
 - Interim staff evaluations of plans issued, or will be shortly (within 2 weeks)
- Phase 2 (Drywell Vent or Strategy)
 - Draft guidance endorsing revision to NEI 13-02
 - Final endorsement by April 30, 2015
 - Finalizing details of water management strategies
- NRC to issue safety evaluations and perform inspections after Phases 1&2 are complete



Seismic Hazard Reevaluations

- Central and Eastern U.S. Plants
 - Expect to issue staff assessments on hazards for Group 1 plants between May and September
 - Expedited approach submittals under review
 - Some modifications planned
- Western U.S. Plants' Reevaluated Hazard Reports
 - Reports received March 12, 2015
 - Screening and prioritization letter within 60 days, including a review of any interim actions
- Focus Areas
 - Refinement of technical approaches and schedules for the limited scope evaluations
 - Phase 2 decisions



Flooding Hazard Reevaluations

- Groups 1&2
 - Reevaluated hazard submittals received
 - Interim action reviews complete
 - Eight staff assessments issued
- Group 3
 - Reevaluated hazards or extension requests received by March 12, 2015
 - Reviewing interim actions
- Challenges Moving Forward
 - Site-specific probable maximum precipitation analyses
 - Commission direction on COMSECY-14-0037



COMSECY-14-0037

- COMSECY-14-0037
 - Intended to clarify the relationship between Task Force Recommendations 2.1 and 4.2
 - Provided to the Commission on November 21, 2014
 - SRM Issued
- Integrated Assessments
 - Expected deferral of the submittal date for the integrated assessments to allow the staff to address Commission direction on COMSECY-14-0037



Status of Post-Fukushima Rulemakings

- Mitigation of Beyond Design Basis Events
 - ACRS subcommittee meeting held March 19, 2015
 - ACRS full committee meeting to be held April 9, 2015
 - Proposed rule due to Commission on April 30, 2015
 - Final rule due to Commission in December 2016
- Containment Protection and Release Reduction
 - Staff preparing a SECY paper/draft regulatory basis with preliminary conclusions and recommendation to discontinue aspects of the rulemaking
 - ACRS subcommittee meeting in June 2015



Tier 2 and 3 Recommendations

- Schedules for Tier 2/3
- No formal disposition, but progress being made
 - Completed early or combined with Tier 1
 - Targeted research in progress
 - Leveraging International activities
 - Informed by Tier 1 activities
- Opportunity for stakeholder input moving forward



Focus Areas

- Review of Focus Areas from December Meeting:
 - Schedule challenges for flooding reevaluations
 - Relationship between mitigating strategies flooding hazard reevaluations (with Commission)
- Focus Areas for Next Meeting
 - Improving timeliness of flood hazard review
 - Addressing staff requirements memorandum on COMSECY-14-0037
 - Plans for Tier 2/3 recommendations
- Timeframe for Next Meeting



Additional Industry Comments



Public Questions



Backup Slides



Tier 2 Recommendations

- Spent Fuel Pool Makeup Capability
 - Addressed under mitigation strategies*
- Emergency Preparedness
 - Addressed under mitigation strategies*
- Reevaluation of “Other” External Hazards
 - *Items addressed under mitigation strategies are therefore being treated with Tier 1 priority**



Tier 3 Recommendations

- 2.2 Periodic confirmation of seismic and flooding hazards
- 3 Enhanced capability to prevent /mitigate seismically induced fires and floods
- 5.2 Reliable hardened vents for other containment designs
- 6 Hydrogen control and mitigation inside containment or in other buildings
- 9.1/9.2 Emergency preparedness (EP) enhancements for prolonged SBO and multiunit events
- 9.4 Improve ERDS capability
- 10 Additional EP topics for prolonged SBO and multiunit events
- 11 EP topics for decision-making, radiation monitoring, and public education
- 12.1 Reactor Oversight Process modifications to reflect the recommended defense-in-depth framework
- 12.2 Staff training on severe accidents and resident inspector training on SAMGs
 - Revisit Emergency Planning Zone Size
 - Prestage potassium iodide beyond 10 miles
 - Expedited transfer of spent fuel to dry cask storage- COMPLETED
 - Reactor and Containment Instrumentation

Acronyms

ACRS	Advisory Committee on Reactor Safeguards
COMSECY	Commission Action Memorandum
EP	Emergency Preparedness
ERDS	Emergency Response Data System
NEI	Nuclear Energy Institute
NTTF	Near Term Task Force
SAMG	Severe Accident Management Guidelines
SECY	Commission Paper
SBO	Station Blackout

