



Status of Lessons Learned from the Fukushima Dai-ichi Accident

**Joint Steering Committee Meeting
January 21, 2016**

Agenda

- Hazard Reevaluations
- Transition to Long-Term Oversight
- Tier 2&3 Recommendations
- Reactor Coolant Pump Seal Leakage
- Future of Steering Committee Engagements
- Upcoming Milestones
- Public Comments and Questions



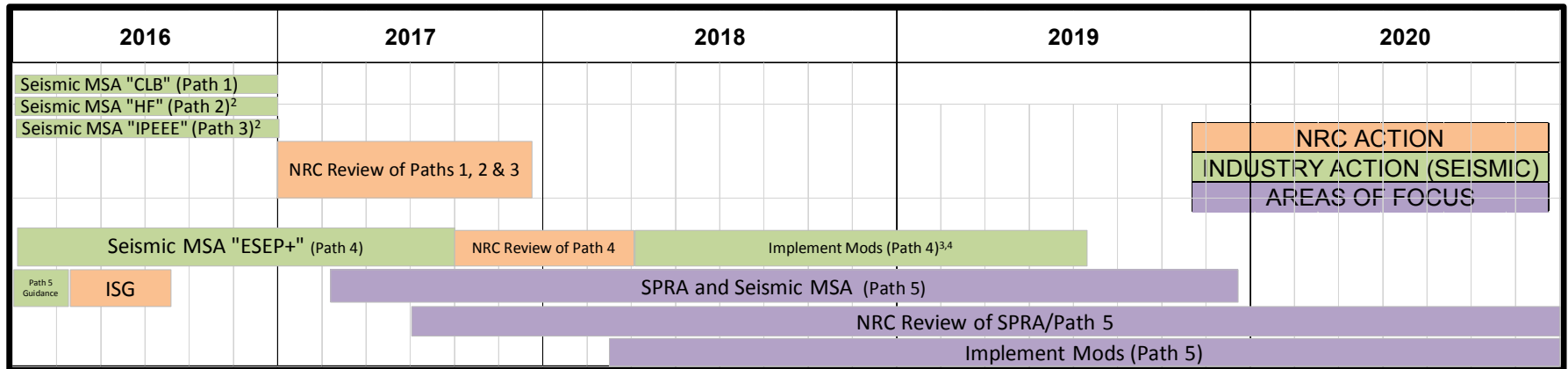
Alignment on Flooding Mitigating Strategies Assessments Schedule¹

2016	2017	2018	2019
Review of Flooding Hazard Assessment			NRC ACTION
Complete Flooding MSAs			INDUSTRY ACTION (FLDG)
	NRC Review of MSAs Path 1&2		
Implement Flooding MSA "with no Changes" (Path 1)			
Implement MSA "Procedures Mods" (Path 2a)			
Implement MSA "Procedures Mods" that require training (Path 2b)			
	NRC Review of MSAs Paths 3&4	Implement Flooding MSA "FLEX Physical Mods" (Path 3)	
		Implement Flooding MSA "THMS/AMS" (Path 4)	

¹Based on Hazard Acceptance



Alignment on Seismic Mitigating Strategies Assessments Schedule



- 2: Assumes no mods required
- 3: Assumes non-outage mods
- 4: For mods requiring an outage, potential for licensee to propose implementing schedule



Alignment on Hazard Reevaluation Milestones

- Guidance for MSA for Seismic Path 5 - March/June 2016
- Guidance for Additional Actions
 - Flooding FEs & IAs - June 2016
 - Phase 2 for flooding and seismic - September 2016
- Complete issuance of staff assessments
 - Seismic - September 2016
 - Flooding - most sites by December 2016



Transition to Long-Term Oversight

- Transition plan under development
- Oversight activities will increase
- Consistent implementation with predictable outcomes
 - Engagement and alignment of all level of management in the responsible organizations
 - Cross-regional panel
 - Increased knowledge transfer opportunities
 - Development of knowledge management tools



Tier 2&3

Recommendations

- Expect near-term Commission direction on SECY-15-0137
- Group 2 recommendations final assessment SECY to be submitted in March 2016
- Status of Group 3 items for December 2016:
 - Radiation Monitoring: Analysis underway
 - Other Natural Hazards: Activity initiated
 - Periodic Reconfirmation: Process development underway



RCP Seal Leakage

- RCP seal leakage is a critical input to MS timeline
- New/evolving issue with seal face degradation under loss of seal cooling conditions
 - Issue limited to small group of PWRs
 - New proprietary test data on Westinghouse standard seals
 - Potential to impact MS and other programs
- Path forward:
 - NRC to continue with existing processes; no impact to current schedule
 - PWROG to develop technical guidance



Future of the Steering Committee

- Factors to Consider
 - Maturity of transition to oversight
 - Finalization of Mitigation of Beyond-Design-Basis Events Rulemaking
 - Final closeout of Tier 2&3 recommendations
 - Clear resolution path on seismic and flooding reevaluations
- Use of normal processes for resolving generic concerns



Upcoming Milestones

- January 2016
 - First phase of JLD reorganization complete
- February 2016
 - ACRS subcommittee meeting on Tier 2&3, Group 2 recommendations
 - 6 month updates due for MS & SFPI Orders
 - Phase 1 of the TI-191 inspections begins
 - Expected issuance of the NAS report
- March 2016
 - RIC panels
 - 5 year anniversary of event
 - ACRS full committee meeting on Tier 2&3, Group 2 recommendations
 - Tier 2&3, Group 2 recommendations SECY Paper



Focus Areas

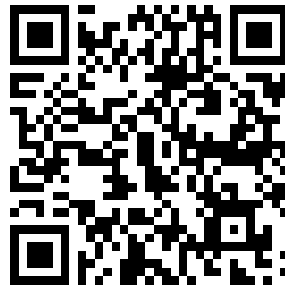
- Review of Focus Areas from Prior Meetings:
 - Guidance development for the integration of reevaluated hazards and mitigating strategies
 - Schedule to provide feedback on flooding hazards by the end of 2015
 - Plans for Tier 2&3 recommendations
- Focus Areas for Next Meeting
 - Phase 1 Flooding Guidance
 - Progress on addressing reevaluated hazards
 - Status on transition to oversight
 - Future of Steering Committee engagements



Additional Industry Comments



Public Questions





U.S.NRC

United States Nuclear Regulatory Commission

Protecting People and the Environment

Acronyms

ACRS	Advisory Committee on Reactor Safeguards	MSA	Mitigating Strategies Assessment
CLB	Current Licensing Basis	NAS	National Academy of Science
ESEP	Expedited Seismic Evaluation Process	PWR	Pressurized Water Reactor
FE	Focused Evaluation	PWROG	Pressurized Water Reactor Owners' Group
FLEX	Diverse and Flexible Implementation Strategies	RCP	Reactor Coolant Pump
HF	High Frequency	RIC	Regulatory Information Conference
IA	Integrated Assessment	SFPI	Spent Fuel Pool Instrumentation
IPEEE	Individual Plant Examination of External Events	SPRA	Seismic Probabilistic Risk Assessment
ISG	Interim Staff Guidance	THMS/ AMS	Targeted Hazard Mitigating Strategies/ Alternate Mitigating Strategies
JLD	Japan Lessons-Learned Division	TI	Temporary Instruction
MS	Mitigating Strategies		