



U.S.NRC

UNITED STATES NUCLEAR REGULATORY COMMISSION

Protecting People and the Environment

NTTF Recommendation 2.1

Seismic

October 21, 2015

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Office of Reactor Regulations
Office of New Reactors



Agenda

- Summary of review progress
- Seismic hazard review updates
- ESEP review updates
- HF Evaluations
- SFP Evaluations
- SPRA Reassessment
- Seismic rulemaking guidance

ESEP – Expedited seismic evaluation process



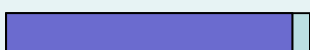


HF – high frequency

SFP – spent fuel pool

SPRA – seismic probabilistic risk assessment



Significant R2.1 Seismic Review Progress

Seismic	
Hazard Reevaluation Reports Received	61/61 (100%) 
Suitability of GMRS Hazard Issued	59/61 (97%) 
Expedited Approach [ESEP] Received	33/34 (97%) 
Expedited Approach Response Issued	21/33 (64%) 
Hazard Staff Assessments Issued	32/61 (52%) 



Seismic Hazard Review Updates



Seismic Hazard Review Updates

- More than half of the SAs for CEUS have been issued
- SAs for CEUS screen-out sites expected to be issued by March 31, 2016
- WUS hazard review are ongoing
 - RAIs have been issued to each licensee
 - SAs expected by Q3 2016
 - Target for hazard suitability letter is December 2015
- Final screening and prioritization determinations made (SPRA Reassessment letter - ADAMS Accession ML15194A015)

CEUS – Central Eastern United States
WUS- Western United States



Expedited Seismic Evaluation Process reviews



ESEP reviews

- Reviews nearing completion for all the CEUS sites
- ESEP response letters issued by December 2015
- WUS ESEP submittal expected in January 2016



Limited Scope Evaluations



HF evaluations

- Staff issued the HF guidance endorsement letter Sept 17 (ADAMS Accession No. ML15218A569)
- HF evaluations for sites with limited exceedances expected by December 31, 2015
- High frequency submittal template development in Q1 2016
- HF evaluations for sites with moderate to high exceedances expected by December 31, 2016
- HF evaluations for sites no longer requiring an SPRA expected by August 31, 2017



SFP Evaluations

- NRC currently reviewing EPRI's white paper
- NRC endorsement of EPRI's white paper following comment resolution and formal submittal
- SFP evaluation for low hazard sites (<.8g) expected by December 31, 2016
- SFP evaluation for high hazard sites (>.8g) expected by December 31, 2017



SPRA Reassessment / Revised Schedules

- Final determination documented in the letter (ML15194A015)
- Letter is in final concurrence
- Sets SPRA schedule for 20 sites
- Concludes SPRA for 13 sites are not warranted



Seismic rulemaking guidance

- Staff currently reviewing draft NEI 12-06 Appendix H (ML15233A050)
- Staff provided comments on Appendix H (ML15273A267)
- Publication of Draft Guide (DG)– 1301 expected early Nov 2015
- Future public meetings to be planned for Paths 4 and 5



Key Messages and Next Steps



Key Messages

- Significant progress made on 2.1 Seismic activities
- Detailed path-forward laid out in the forthcoming October 2015 letter
- Continue plant specific communications with JLD Project Managers on review issues and timelines to support common planning



Upcoming NTTF 2.1 Activities

- Publication of DG-1301 for public comment (Nov 2015)
- Hazard suitability letter for WUS sites (Dec 2015)
- Comment resolution on NEI 12-06 Appendix H (Q4 2015)
- CEUS response letters on ESEP reviews (Q4 2015)
- Staff acceptance of HF submittal template (Q1 2016)
- Issue remaining hazard SA for CEUS sites (Q1 2016)
- Staff acceptance of SPRA submittal template (Q1 2016)
- Staff acceptance of SFP submittal template (Q1/Q2 2016)
- Staff assessments for WUS sites (Q3 2016)



Public Questions or Comments?