

How NTTF 2.3 Seismic Differs From USI A-46

Seismic engineers who complete the 5-day SQUG Walkdown Screening and Seismic Evaluation Training Course meet the training requirements to conduct seismic walkdowns for the Near-Term Task Force (NTTF) Recommendation 2.3: Seismic program. However, there are a number of differences between the requirements in the GIP for addressing USI A-46 and the requirements in the NRC-endorsed Seismic Walkdown Guidance (EPRI Report 1025286) for performing the NTTF 2.3 Seismic Walkdowns. In some ways, the NTTF walkdown requirements are less restrictive; in other ways they expand the scope of review.

Listed below are the principal ways that the requirements in the Seismic Walkdown Guidance differ from the GIP requirements. The headings below correspond to sections in the Seismic Walkdown Guidance.

Section 2: Personnel Qualifications

- SWEs do not need to have 5 years of experience
- Licensing Basis Reviewer added
- IPEEE Reviewer added
- Peer Review Team required
 - At least two on the team

Section 3: Selection of SSCs

- SSCs selected for walkdown may be based on IPEEE or USI A-46 SSELs
- Sampling of equipment with about 100 to 120 items of equipment per unit
- Must include SSCs for containment function
- Sample to include a variety of:
 - Systems
 - Major new/replacements in past 15 years
 - Equipment types (classes)
 - Environments
 - IPEEE enhancements
- Sample of spent fuel pool SSCs to be walked down including:
 - SSCs that could cause rapid drain-down of SFP

Section 4: Seismic Walkdowns and Area Walk-Bys

- Not necessary to check seismic capacity vs. demand
- Not necessary to check for caveats
- Anchorage check limited to visual inspection only
- Not necessary to perform relay review
- Not necessary to perform full scope tank and heat exchanger review
- Not necessary to perform full scope cable/conduit raceway evaluation
- Area Walk-Bys required around each SSC on the SWEL. Scope of Area Walk-Bys to include:
 - Anchorage conditions (if visible without opening equipment)

- Significantly degraded equipment in the area
- A visual assessment (from the floor) of cable/conduit raceways and HVAC ducting (e.g., condition of supports or fill conditions of cable trays)
- Potentially adverse seismic interactions including those that could cause flooding, spray, and fires in the area
- Other housekeeping items that could cause adverse seismic interaction (including temporary installations and equipment storage)
- Identify “adverse seismic conditions” that may not meet plant seismic licensing basis instead of identifying “outliers” defined by GIP screening criteria

Section 5: Seismic Licensing Basis Evaluations

- Evaluate “adverse seismic conditions” against plant seismic licensing basis instead of evaluating “outliers” against GIP screening guidelines
- Expect that plant Corrective Action Program (CAP) will be used to address “adverse seismic conditions”

Section 6: Peer Review

- Peer review much more extensive and time consuming than for GIP:
 - Team with at least two persons
 - Each aspect of NTTF 2.3 Seismic to be reviewed by at least two peer reviewer
 - Expect peer reviews to be conducting during implementation of program, not just at the end
 - Peer review full scope of NTTF 2.3 program, not just the judgments of the SCEs
 - Submittal report to provide a narrative of the peer process and findings including how the peer review affected implementation of the program

Section 7: IPEEE Vulnerabilities

- Identify the seismic vulnerabilities defined during the IPEEE and actions taken to eliminate or reduce them
- Report the status of actions taken to eliminate or reduce IPEEE seismic vulnerabilities
- Include a sample of the SSCs for more significant actions were taken during the IPEEE program

Section 8: Submittal Report

- Not necessary to include copies of training certificates
- Peer review Team Leader should determine and state in the submittal report whether the objectives and requirements of the 50.54(f) Letter are met
- Report must be submitted within 180 days from June 1, 2012
- An updated report to be submitted later after all the evaluations for inaccessible SSCs have been completed for each unit
- Signed under oath and affirmation by licensee executive