

Japan Lessons-Learned Action Items and Long-term Evaluations (July 2012)

Identifier / Source	Regulatory Action or Tier 3 basis/ dependency	Description	Status / Due
Tier 1			
NTTF 2.1	Request for information (RFI)	Reevaluate seismic and flooding hazards against current requirements and guidance and update the design basis. Take appropriate regulatory action to resolve issues associated with updated site-specific hazards.	RFI issued 3/12/2012
NTTF 2.3	RFI	Perform seismic and flood protection walkdowns and address plant-specific vulnerabilities. Take appropriate regulatory action to resolve issues associated with updated site-specific hazards.	RFI issued 3/12/2012
NTTF 3 (partial)	Plan	Develop a plan to prepare a probabilistic risk assessment methodology for seismic-induced fires and floods.	Complete 2/17/2012 SECY-12-0025
NTTF 4.1	Rulemaking	Issue advance notice of proposed rulemaking (ANPR) in support of a rulemaking to enhance the capability to maintain plant safety through a prolonged station blackout (SBO).	ANPR issued 3/20/2012
NTTF 4.2	Order	Issue a generic order to nuclear power plants requiring a three-phase approach for mitigating beyond-design-basis external hazards.	Order issued 3/12/2012
NTTF 5.1	Order	Issue a generic order to licensees with boiling-water reactor Mark I and II primary containment designs to require a reliable hardened containment vent system.	Order issued 3/12/2012
NTTF 7.1	Order	Issue a generic order to nuclear power plants requiring a reliable indication of water level in spent fuel storage pools.	Order issued 3/12/2012
NTTF 8	Rulemaking	Issue ANPR in support of a rulemaking to require integration of onsite emergency response processes, procedures, training, and exercises.	ANPR issued 4/18/2012
NTTF 9.3 (partial)	RFI	Request that licensees perform a staffing study for responding to a multiunit event, evaluate enhancements that would be needed to power communications equipment throughout a prolonged SBO, and inform the NRC of the results.	RFI issued 3/12/2012
NTTF 9.4	Voluntary initiative	Order licensees to complete the ERDS modernization initiative by June 2012 to ensure multiunit site monitoring capability.	Completed June 2012

Identifier / Source	Regulatory Action or Tier 3 basis/ dependency	Description	Status / Due
SECY-12-0025, Enclosure 2	Under evaluation	Related to NTTF 5.1. Assess filtration, and additional performance requirements, for reliable hardened containment vent systems	Under review
SECY-12-0025, Enclosure 2	Orders and RFI	Related to NTTF 2.1, 2.3, 4.1, and 4.2. Include ultimate heat sink (UHS) systems in reevaluation and walkdowns, include loss of UHS as a design assumption in conjunction with strategies for dealing with prolonged SBO, and address loss of access to normal UHS in conjunction with measures taken to deal with beyond-design-basis external hazards.	Orders and RFI issued 3/12/2012
<i>Tier 2</i>			
NTTF 7.2-7.5	Rulemaking	Require licensees to provide reliable spent fuel pool makeup capabilities.	Initiate in FY2013
NTTF 9.3 (partial)	Order	Issue a generic order to nuclear power plants requiring a revision to the emergency plan to address multiunit dose assessments, periodic training and exercises for multiunit and prolonged SBO scenarios, and drills on identification and acquisition of offsite resources, and ensuring sufficient emergency preparedness (EP) resources for multiunit and prolonged SBO scenarios.	Plan to Subsume in Tier 3 EP ANPR (see COMSECY-12-0014)
SECY-12-0025, Enclosure 3	RFI	Reevaluate other natural external hazards against current requirements and guidance and update the design basis. Take appropriate regulatory action to resolve issues associated with updated site-specific hazards.	Initiate as resources are available
<i>Tier 3</i>			
NTTF 2.2	<i>NTTF 2.1</i>	Ten-year confirmation of seismic and flooding hazards	Program plan
NTTF 3 (partial)	<i>Long-term evaluation</i>	Potential enhancements to the capability to prevent or mitigate seismically-induced fires and floods	Program plan
NTTF 5.2	<i>Long-term evaluation</i>	Reliable hardened vents for other containment designs.	Program plan
NTTF 6	<i>Long-term evaluation</i>	Hydrogen control and mitigation inside containment or in other buildings.	Program plan

Identifier / Source	Regulatory Action or Tier 3 basis/ dependency	Description	Status / Due
NTTF 9.1, 9.2	<i>Critical skills availability</i>	EP enhancements for prolonged SBO and multiunit events.	Program plan
NTTF 9.3 (partial)	<i>NTTF 10</i>	Emergency Response Data System (ERDS) capability.	
NTTF 10	<i>Long-term evaluation</i>	Additional EP topics for prolonged SBO and multiunit events.	
NTTF 11	<i>Long-term evaluation</i>	EP topics for decision-making, radiation monitoring, and public education.	
NTTF 12.1	<i>NTTF 1</i>	Reactor Oversight Process modifications to reflect the recommended defense-in-depth framework.	Program plan
NTTF 12.2	<i>NTTF 8</i>	Staff training on severe accidents and resident inspector training on severe accident management guidelines.	Program plan
SECY-12-0025, Enclosure 2	<i>Long-term evaluation</i>	Basis of emergency planning zone size.	Program plan
SECY-12-0025, Enclosure 2	<i>Long-term evaluation</i>	Pre-staging of potassium iodide beyond 10 miles.	Program plan
SECY-12-0025, Enclosure 2	<i>Long-term evaluation</i>	Transfer of spent fuel to dry cask storage.	Program plan
SECY-12-0025, Enclosure 2	<i>Long-term evaluation</i>	Reactor and containment instrumentation withstanding beyond design basis conditions	Program plan