



U.S. NRC Approach and Actions in Response to the Fukushima Accident

June 21, 2011

U.S. NRC Actions to Date

- **Communicating with licensees**
 - Providing information so that licensees can take proactive actions
- **Enhanced inspections**
 - Issued Temporary instructions (TI) to focus on Fukushima-related issues
- **Issued Bulletin**
 - Mitigating strategies

Task Force

- **Systematic and methodical review**
 - Near-term, 90-day review
 - Longer-term review
- **Areas of Focus - Defense-in-depth approach to:**
 - Prevention from natural phenomena
 - Mitigation for long-term station blackout
 - Emergency preparedness (EP)

Task Force Themes

- **Protection of Equipment from external hazards is a key foundation of safety**
- **Mitigation equipment and strategies to prevent core and spent fuel damage provide additional defense-in-depth**
- **EP provides further defense-in-depth by minimizing public dose should a release occur**

Prevention

- **Design basis events**
 - Seismic, flooding, and other external events
 - Broader focus than seismic/tsunami hazards
- **Beyond design basis events**
 - Survivability of alternating current (AC) power
 - Emergency AC power and distribution
 - Alternative AC sources in the event normal sources are lost

Mitigation

- **Mitigation Goals**
 - Preventing core damage and containment failure
 - Preventing spent fuel damage and mitigating releases
- **Cross-cutting considerations**
 - Emergency operating procedures and guidelines

Emergency Preparedness

- **Considerations from Fukushima**
 - Infrastructure damage
 - Multi-unit events
 - Long-term station blackout
- **National approach**
 - Shared responsibility with other federal agencies, state and local authorities, and private sector licensees

International Cooperation

- **Fukushima-related efforts**
 - Coordinating events and efforts to maximize effectiveness
 - Open exchange of information
- **Broader Efforts**
 - Multilateral activities
 - Bilateral activities

Next Steps

- **Follow-up activities**
 - Evaluate inspection findings
 - Bulletin on mitigating strategies
- **Near-term review**
 - 90-day final briefing
 - Final Task Force report
- **Long-term review**