



# **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
- **Defense-in-depth approach**
  - Prevention
  - Mitigation
  - Emergency preparedness (EP)

# 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



United States Nuclear Regulatory Commission

*Protecting People and the Environment*

# 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**