IMPLEMENTATION OF NEAR-TERM TASK FORCE RECOMMENDATIONS

US Nuclear Regulatory Commission

December 1, 2011

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AGENDA

- Welcome and Opening Comments
- Event Summary
- Implementation Strategy – NRC Overview
- Implementation Strategy - Industry Insights
- Public Input and Questions
- Closing Remarks

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EVENT SUMMARY AND NRC RESPONSE

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EVENT SUMMARY AND STAFF RESPONSE

- Incident Response Phase
  - March 11, 2011, Earthquake and Tsunami
    - NRC Operations Center activated
    - NRC personnel dispatched to Japan
  - Fukushima Daiichi
    - Prolonged Station Blackout
    - Fuel Damage and Offsite Release
- Lessons-Learned Phase
  - Efforts underway internationally
  - Safety enhancements for domestic plants

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U.S. LESSONS-LEARNED DEVELOPMENT AND IMPLEMENTATION

- March 30, 2011 - Near Term Task Force (NTTF) chartered
  - Methodical and systematic review
- July 12, 2011 – NTTF Report Issued
  - 12 overarching recommendations
- September 9, 2011 – Staff assessment of those NTTF recommendations that should be initiated without delay.
  - Commission direction received
- October 3, 2011 – Staff prioritization of NTTF recommendations
  - Commission direction pending

PATH FORWARD – PUBLIC MEETINGS

- Steering Committees' kick-off meeting
- Recommendation-specific follow-on meetings
- Meeting Objectives:
  - Schedule agreement – milestones/deliverables
  - Open dialogue on scenarios and criteria that will shape the resolution framework
  - Stakeholder input
  - Realistic and implementable
- Periodic joint Steering Committee meetings

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TIER 1 RECOMMENDATIONS

- Initiate without delay
  - 2.1 - Hazard reevaluations (seismic /flooding)
  - 2.3 - Walkdowns (seismic/flooding)
  - 4.1 – Station blackout
  - 4.2 - 10 CFR 50.54(hh)(2) equipment
  - 5.1 - Reliable hardened vents, Mark I and II
    - Mark II subject to Commission approval
  - 7.1 - Spent fuel pool instrumentation
    - Subject to Commission approval
  - 8 - EOPs/SAMGs/EDMGs strengthening and integration rulemaking
  - 9.3 - Emergency preparedness
- Beginning implementation in accordance with Commission direction

PATH FORWARD - RESOLUTION OF RECOMMENDATIONS

- Define success for each recommendation
  - Determine design conditions and parameters
  - Establish acceptance criteria for resolution
- Phased approach, whenever possible
  - Endpoint focused
  - Tactical steps to achieve success

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POTENTIAL ASSUMPTIONS FOR TIER 1 DISCUSSIONS

- **Beyond design basis natural event resulting in the following:**
  - Affects all nuclear reactor units on specific site
  - Initiates a prolonged SBO (e.g., 72 hrs)
  - Impedes external support for an extended period (e.g., 72 hrs)
  - Interrupts access to normal ultimate heat sink.

- **Each licensee develops and implements guidance and strategies intended to maintain or restore core cooling, containment, and spent fuel pool cooling capabilities**

- **These assumptions will be appropriately revised based on Commission direction and external stakeholder input received during of the recommendation-specific public meetings**

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NEXT STEPS

- Recommendation-specific meetings scheduled
- Develop regulatory vehicles (50.54(f) letters, orders, rules)
- Evaluate additional recommendations
  - Raised by internal and external stakeholders
  - Staff review process under development
  - Reviews by senior level staff, technical leads, and steering committee
    - Determine safety significance
    - Ensure clear nexus to Fukushima

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NTTF IMPLEMENTATION MEETING

Implementation Strategy -
Industry Insights

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NTTF IMPLEMENTATION MEETING

Public Input and Questions on NRC's Implementation Plan

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NTTF IMPLEMENTATION MEETING

Closing Remarks

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