U.S. Generic Safety Issues

IAEA Consultancy Meeting

on "Strategies for Sharing Information on Generic Safety Issues for NPPs with LWRs"

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United States Nuclear Regulatory Commission

Protecting People and the Environment

Objective

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- Provide recent U.S. GSI examples to demonstrate:
  - Broad variety of issues dealt with in U.S. NRC′s Generic Issues Program
  - Issues which resulted in regulatory actions
  - Impact of revised GIP and GIP criteria
    - Use of risk tools
    - "Handoffs" to other programs/processes
    - Stakeholder interactions and communication plans
    - Industry initiatives
    - Transition process

Variety of U.S. Generic Issues

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- GI-156.6.1: Pipe Break Effects on Systems and Components
- GI-163: Multiple Steam Generator Tube Leakage (Reg. Office Implementation)
- GI-186: Potential Risk and Consequences of Heavy Load Drops in Nuclear Power Plants (Open)
- GI-189: Susceptibility of Ice condenser and Mark III Containments to Early Failure from Hydrogen Combustion During a Severe Accident (Reg. Office Implementation)
- GI-191: Assessment of Debris Accumulation on PWR Sump Performance (Reg. Office Implementation)
- GI-193: BWR ECCS Suction Concerns (Open)
- GI-196: Boral Degradation

Variety of U.S. Generic Issues (cont.)

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- GI-198: Hydrogen Combustion in PWR Piping
- GI-199: Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States on Existing Plants (Open)
- GI-200: Tin Whiskers (Electrically conductive, crystalline structures of tin that can grow from surfaces where tin (especially electroplated tin) is used as a final finish).
- GI-201: Small-Break Loss-of-Coolant Accident With Loss of Offsite Power
- GI-202: Spent Fuel Pool Leakage Impact
- GI-203: Potential Safety Issues with Cranes That Lift Spent Fuel Casks

Generic Issues which Resulted in Regulatory Actions

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- GI-163 Multiple Steam Generator Tube Leakage
  - NUREGs 1430-1432 regarding Standard Technical Specifications
  - NRC Generic Letter 2006-01
  - Plant-specific Technical Specifications for PWRs

- GI-186 Potential Risk and Consequences of Heavy Load Drops in Nuclear Power Plants
  - NUREG-1774
  - Standard Review Plan (NUREG-0800), Section 9.1.5

- GI-191 Assessment of Debris Accumulation on PWR Sump Performance
  - Regulatory Guide 1.82, Rev. 3
  - NUREG-0800, Generic Letter 85-22, Bulletin 2003-01
  - Generic Letter 2004-02

Impact of Revised GIP and new GI Criteria

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- Dispositioned with no action based on risk
  - GI-198 Hydrogen Combustion in PWR Piping
  - GI-200 Tin Whiskers
  - GI-201 Small-Break Loss-of-Coolant Accident With Loss of Offsite Power

- Dispositioned to other, more appropriate programs and processes
  - GI-202 Spent Fuel Pool Leakage Impact
  - GI-203 (Cranes for SF Cask Lifts)

- Stakeholder interactions/Communication plan
  - GI-193 BWR ECCS Suction Concerns
  - GI-199 Implications of Updated Probabilistic Seismic Hazard Estimates in Central and Eastern United States on Existing Plants (Open)