RIC 2005
SESSION T-C2
PWR SUMP PERFORMANCE

Industry Implementation of GL/SER

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Summary

- Industry Guidance Documents
- NRC SER
- Actions Required by Generic Letter 2004-02
- Several Issues to Consider in Implementation
- Questions

Industry Guidance Documents

- NEI 02-01 “Conditional Assessment Guideline – Debris Sources Inside PWR Containments”
  - Provides a methodology to perform plant condition assessments and appropriate supporting walk downs
- NEI 04-07 “Pressurized Water Reactor Sump Performance Evaluation Methodology”
  - Provides guidance in the primary issues that are required to be addressed in the during the sump performance evaluation.

NRC SER

- Provides limitations and clarifications to the NEI 04-07
  - Examples
    - Reduces destruction pressure for the insulation using air jet testing by 40%
    - Limit to 15 % debris that is retained in inactive pools

Actions Requested by GL 2004-02

- With 90 days of the date SER is issued
  - Provide information regarding the planned actions & schedule to complete the requested evaluation
- No Later Than September 2005
  - Confirm that ECCS & CSS recirculation functions under debris loadings are or will be compliance with Regulatory Requirements
  - Efforts to implement the identified actions should be initiated no later than first refueling outage starting after April 1, 2006
  - All actions should be completed no later than December 31,2007
  - NOTE- NRC has assessed continue operation until December 31,2007 and has determined that continued operation IS justified

Several Issues during Implementation

- NEI 04-07 – supplement by ongoing Research
  - Chemical effects
  - Downstream
- Evaluations and corrective actions depends on plant configuration
- Time issues with length and times of refueling outages
  - Evaluations required several man months to complete
  - Implementation of plant modification will required several man months to design and procure
- On going outages activities
  - Storage of equipment, ect between outages will need to be evaluated
  - Increased awareness of containment cleanliness will be required
  - Increased of debris source coating issue will be required

Questions