

August 29, 2001

MEMORANDUM TO: Ashok C. Thadani, Director  
Office of Nuclear Regulatory Research

FROM: Thomas L. King, Director */RA by Charles E. Ader for:*  
Division of Systems Analysis and Regulatory Effectiveness  
Office of Nuclear Regulatory Research

SUBJECT: GENERIC ISSUE MANAGEMENT CONTROL SYSTEM REPORT –  
THIRD QUARTER FY 2001

REACTOR GSIs

The following progress was made during the subject reporting period:

- An Action Plan for the resolution of **GSI-156.6.1**, "Pipe Break Effects on Systems and Components," was completed in May 2001. Contractor support will be required for the technical assessment of this HIGH-priority issue. Currently evaluating the availability of resources necessary to support resolution.
- An Action Plan for the resolution of **GSI-163**, "Multiple Steam Generator Tube Leakage," was developed by the staff in May 2001, based on the recommendations of the ACRS. The plan encompasses several complex technical sub-issues involving both NRR and RES, with milestones that are scheduled for completion beginning in FY-2001. Closure of the issue is scheduled for September 2005.
- **GSI-168**, "Environmental Qualification of Electrical Equipment": In April 2001, the staff met with industry representatives to discuss four technical issues related to equipment qualification that were raised by the staff. NEI and IEEE are working to articulate positions on behalf of the industry, and to provide relevant information on the four issues. In a parallel effort, Okonite has implemented a program to re-establish and confirm their ratings and qualification parameters for their single-conductor, bonded-jacket cables. The results of the Okonite program will be factored into the resolution of GSI-168.
- **GSI-170**, "Fuel Damage Criteria for High Burnup Fuel," was closed with no new or revised requirements; a memo to this effect was sent to the EDO on May 4, 2001. In addressing the issue, the staff performed an evaluation of data that had been collected

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since the identification of the issue and confirmed that the use of fuel up to the existing burnup limits does not pose safety problems. An ongoing confirmatory research program with industry cooperation will refine the staff's further understanding of the issues arising from additional increase in burnups.

- A report on IPEEE insights (Draft NUREG-1472) was issued in April 2001 and includes an explanation of how the issues in **GSI-172**, "Multiple System Responses Program," were addressed in the IPEEE Program.
- In May 2001, **GSI-189**, "Susceptibility of Ice Condenser Containments to Early Failure from Hydrogen Combustion During a Severe Accident," was added to the list of issues to be screened. The issue was the subject of a letter to the Commission from the Nuclear Control Institute.
- **GSI-191**, "Assessment of Debris Accumulation on PWR Sump Performance": Debris transport tests were completed and debris generation tests began.

At the end of the reporting period, seven reactor GSIs remained to be resolved (see Table 1), one GSI remained to be reprioritized (see Table 6), and three GSIs remained to be screened (see Table 9).

#### NON-REACTOR GSIs

At the end of the reporting period, four non-reactor GSIs remained to be resolved (see Table 15).

#### ANTICIPATED ACCOMPLISHMENTS FOR THE NEXT REPORTING PERIOD:

- REAHFB will continue its effort in the trial use of MD 6.4 to complete the initial screening of **GSI-188**, "Steam Generator Tube Leaks/Ruptures Concurrent with Containment Bypass," and the technical screening of **GSI-186**, "Potential Risks and Consequences of Heavy Load Drops in Nuclear Power Plants."

I will continue to keep you informed of progress in resolving the remaining 15 unresolved reactor and non-reactor GSIs as well as any major problems that might surface during the course of their resolution.

Attachment: GIMCS Report, August 2001

cc w/att.: See attached

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A. Thadani

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