

April 29, 2004

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

FROM: Farouk Eltawila, Director **/RA/** by Farouk Eltawila
Division of Systems Analysis and Regulatory Effectiveness
Office of Nuclear Regulatory Research

SUBJECT: GENERIC ISSUE MANAGEMENT CONTROL SYSTEM (GIMCS)
REPORT – SECOND QUARTER FY 2004

The GIMCS Report for the Second Quarter of FY 2004 is attached for your information. Significant progress was made during the reporting period on the following generic safety issues (GSIs):

REACTOR GSIs

GSI-80, Pipe Break Effects on Control Rod Drive (CRD) Hydraulic Lines in the Drywells of Boiling Water Reactor (BWR) MARK I and II Containments: The combined Task Action Plan (TAP) for the technical assessment of GSIs 80 and 156.6.1 was approved on February 3, 2004. The analysis of high energy piping interactions with CRD piping bundles in BWR MARK I drywells is scheduled for completion in May 2004.

GSI-156.6.1, Pipe Break Effects on Systems and Components: Following approval of the combined TAP for the technical assessment of GSIs 80 and 156.6.1 on February 3, 2004, the analysis of high energy piping interactions with BWR MARK I drywell shells was completed in March 2004.

GSI-185, Control of Recriticality Following Small-Break Loss-of-Coolant Accident (LOCA) in Pressurized Water Reactors (PWRs): On March 25, 2004, a draft report was issued to the Office of Nuclear Reactor Regulation (NRR) and the Advisory Committee on Reactor Safeguards (ACRS) describing an assessment of recriticality from the transport of boron-diluted water from loop seals to the core during small-break LOCAs in PWRs. The Office of Nuclear Regulatory Research (RES) is awaiting feedback on the report before finalizing its technical assessment.

GSI-186, Potential Risk and Consequences of Heavy Load Drops in Nuclear Power Plants: NRR informed RES on February 4, 2004, that the three recommendations forwarded to NRR on November 12, 2003, would be implemented through issuance of a Regulatory Issue Summary that clarifies and reemphasizes existing regulatory guidance for the control of heavy loads.

CONTACT: Ronald C. Emrit, RES:DSARE:ARREB
(301) 415-6447

GSI-189, Susceptibility of Ice Condenser Containments to Early Failure from Hydrogen Combustion During a Severe Accident: Through meetings with stakeholders on February 3 and March 31, 2004, the staff continued to work with the industry in developing guidance that specifies the design requirements for a backup power supply to igniters. However, before a final decision is reached to pursue rulemaking, agreement by the Nuclear Regulatory Commission Rulemaking Committee is needed.

GSI-191, Assessment of Debris Accumulation on PWR Sump Performance: Industry guidance for plant-specific analyses is scheduled for completion by the end of April 2004.

GSI-193, BWR Emergency Core Cooling System (ECCS) Suction Concerns: The TAP for a Technical Assessment of this issue is scheduled for completion by May 2004.

GSI-195, Hydrogen Combustion in Foreign BWR Piping: The initial screening of this issue was approved by the RES Director on February 23, 2004, with the recommendation to share the insights gained with operating plants. Technical assessment of the issue will not be pursued.

At the end of the reporting period, nine reactor GSIs remained to be resolved, including four GSIs that were transferred from RES to NRR for regulation and guidance development (see Table 1). One GSI remained to be screened (see Table 9).

NON-REACTOR GSIs

At the end of the reporting period, three non-reactor GSIs remained to be resolved (see Table 14).

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

Attachment: GIMCS Report, April 2004

cc:

J. Strosnider, RES	R. Barrett, NRR	R. Torres, NMSS	L. Reyes, Region II
J. Rosenthal, RES	J. Donoghue, NRR	J. Bell, IRM	J. Caldwell, Region III
M. Mayfield, RES	J. Birmingham, NRR	J. Larkins, ACRS	B. Mallett, Region, IV
F. Cherny, RES	S. Black, NRR	W. Usilton, IRM	S. Duraiswamy, ACRS
S. Schneider, NRR	M. Virgilio, NMSS	J. Dyer, NRR	
B. Sheron, NRR	M. Federline, NMSS	H. Miller, Region I	

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