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SUBJECT: Forwards response to NRC request for info re recirculation line suction break asymmetric loads, including SLI-94-029, "Calculation of Shroud Loads During Recirculation Line Break."

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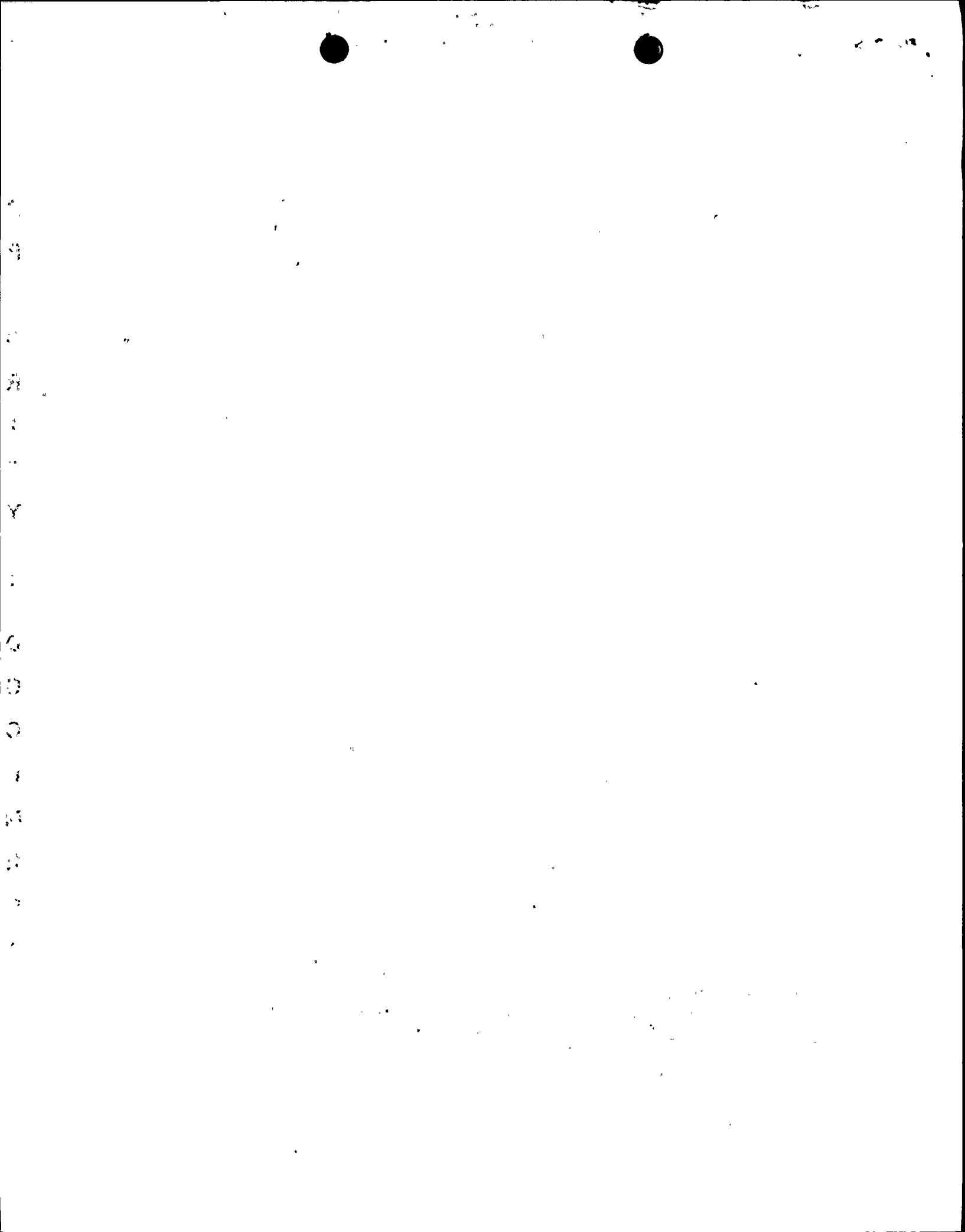
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CARL D. TERRY  
Vice President  
Nuclear Engineering

March 9, 1995  
NMP1L 0915

U. S. Nuclear Regulatory Commission  
Attn: Document Control Desk  
Washington, DC 20555

RE:           Nine Mile Point Unit 1  
              Docket No. 50-220  
              DPR-63

**Subject:**     *Generic Letter 94-03, "Intergranular Stress Corrosion Cracking of Core Shrouds in Boiling Water Reactors" (TAC No. M90102)*

Gentlemen:

In a telecon dated March 3, 1995, the Commission requested information associated with recirculation line suction break asymmetric loads used for the Nine Mile Point Unit 1 core shroud stabilizer repair. The Enclosures to this letter, as described below, provide the requested information. Note that the same information was submitted to the Commission under separate cover letter on March 4, 1995.

SLI-94-029 (Enclosure 1)

BWRVIP authorized independent analysis of the "Calculation of Shroud Loads During a Recirculation Line Break," SLI-94-029, November 1, 1994. This report was authorized by the BWRVIP assessment subcommittee but has not been through the formal vote and approval process of the BWRVIP. However, the report is a final S. Levy report. The report includes a confirmation calculation which compares the CFD code in a non-jet pump configuration with loads computed using potential flow.

General Electric Design Record File (DRF) L12-00819, Section 30 (Enclosure 2)

Sections from the GE DRF which calculated the Nine Mile Point Unit 1 shroud asymmetric loads. This information is provided in the four parts indicated below:

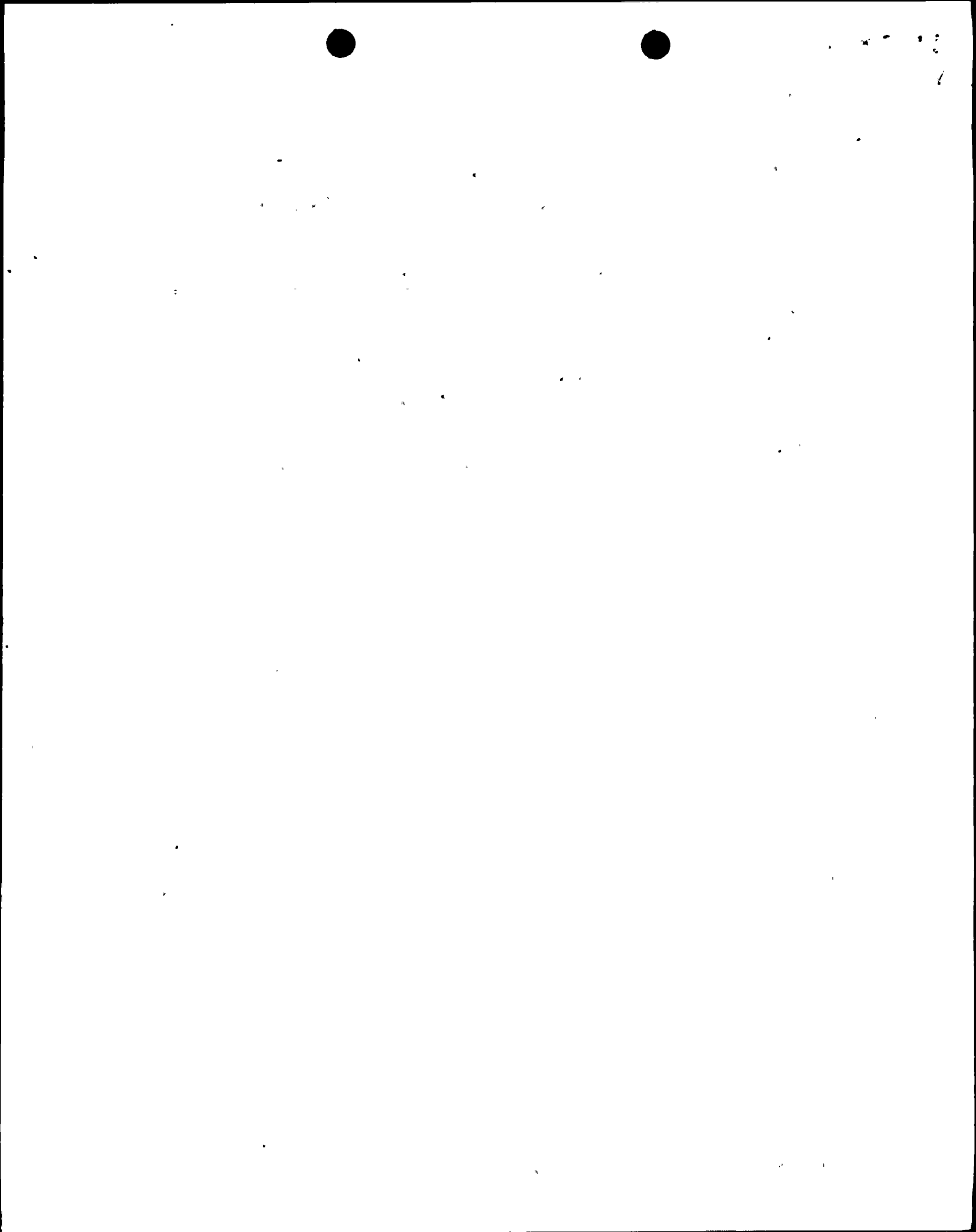
Part I	Description of the calculated method
Part II	Excell spread sheet calculations
Part III	Excell spread sheet calculated loads
Part IV	Section 3.2 of the draft GENE-523-A000-0195, NMP1 and Oyster Creek Shroud Safety Assessment. This section describes the method General Electric (GE) used to define the BWR-2 asymmetric loads. This report was authorized by the BWRVIP and is in draft form from GE.

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In order to address the Commission's concerns with the GE potential flow method used to calculate the Nine Mile Point Unit 1 shroud asymmetric loads, GE Nuclear Energy is performing TRACG asymmetric load calculations. These calculations will be based on a modification to the GE generic jet pump reactor asymmetric load TRACG model with the jet pumps obstructions removed and the shroud repair stabilizer flow obstructions simulated. These results will then be used to determine if a conservative multiplier is required to the previously defined asymmetric loads. This approach is the same as that used by GE to define the asymmetric loads for the jet pump reactors which are using the GE stabilizer repair design. This analysis is expected to be completed March 10, 1995. GE is simultaneously evaluating the available margin in the stabilizer design. It is currently estimated that the asymmetric load can be increased by a factor of 2 to 3 without impacting the existing stabilizer stress analysis. NMPC is planning to submit a disposition to the Commission's concerns regarding the core shroud repair asymmetric load by March 13, 1995.

Very truly yours,



C. D. Terry  
Vice President - Nuclear Engineering

CDT/JMT/kab  
Enclosures

xc: Regional Administrator, Region I  
Mr. L. B. Marsh, Director, Project Directorate I-1, NRR  
Mr. D. S. Brinkman, Senior Project Manager, NRR  
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