



LAWRENCE LIVERMORE LABORATORY

NUCLEAR SYSTEMS SAFETY PROGRAM

TF80-215

August 27, 1980

Frank C. Cherny
Division of Engineering
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: LLNL TMI Valve Testing Project; Work Description

Dear Frank:

On August 13 a meeting was held with you and E. Hemminger at the NRC in Bethesda to clarify the scope of work to be performed by LLNL on the TMI Lessons Learned Implementation, Task A -- Relief and Safety Valve Testing Project. Telephone discussions on the same subject were also held with C. Hofmayer and R. LaGrange on 18 August 1980.

The results of these discussions was an understanding and agreement as to the work to be performed by LLNL under subject project.

Confirming the above discussions, the following is a summary of the work to be performed by LLNL:

- o Prepare a Safety Evaluation Report for the safety and relief valve system on each operating reactor.
- o Technically review and evaluate utility reports describing experimental and analytical results used in verifying the safety of plant relieving systems.
- o Perform independent confirmatory thermal hydraulic/structural response calculations for relieving systems for a select number of nuclear plants.
- o Interface with INEL, the NRC-RES contractor charged with identifying and evaluation thermal hydraulic and structural codes to properly model relieving systems.
- o Obtain and modify thermal hydraulic and structural response codes to operate on the LLNL computer system.

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- o Review experimental programs to be conducted by EPRI and the BWR owners group to test safety and relief valves and the associated piping. Review the adequacy of the test program as to:
 - piping system design
 - valves selected for testing
 - thermo hydraulic transient conditions

- o Obtain valve and piping information for individual nuclear plant relieving systems. This information should include:
 - piping design details
 - hanger and support description
 - system design specifications
 - valve detail drawings
 - valve operation characteristics

Sincerely,

Werner Stein

Werner Stein
Thermo Fluids Mechanics Group

WS:mr

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cc: F. Tokarz/G. Cummings
B. Bowman
T. Altenbach
C. Hofmayer (NRC)
R. LaGrange (NRC)
J. Telford (NRC)
E. Hemminger (NRC)