

TF80-

July 16, 1980

D. G. Eisenhut
Division of Licensing
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

Subject: Monthly Management Letter No. 4
June 1980
NRC FIN A0241
Containment Analysis Support for SEP

Dear Mr. Eisenhut:

1. Program Objective and Description

The purpose of this program is to enable the U.S. NRC staff to resolve containment safety issues addressed in SEP Safety Topics VI-2.D and VI-3. These safety topics are concerned with the ability of the containment to withstand the increase in containment atmosphere pressure and temperature due to a postulated break of a high energy line inside the containment. In addition, the program will define the appropriate pressure and temperature conditions for the environmental qualification of equipment.

To accomplish the objectives of this program, the existing docket information is reviewed and evaluated for each SEP facility. Based on this review, audit and/or original analyses may be performed to complete the SEP safety topic review.

2. Progress - June 1 through June 30, 1980

There were no milestones scheduled for completion during the month of June. It was anticipated that the Palisades containment analysis for primary system breaks would be completed. However, due to both computer hardware and software problems as mentioned in the following June progress report, the expected date of completion is late July.

a) Computer Code Implementation at Lawrence Berkeley Laboratory

- 1) A set of error correction cards for RELAP4 MOD6 relating to calculating choke flow conditions were obtained from INEL. These have been installed but required considerable effort because of errors in the supplied updates and an error in the UPD update program.

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- 2) Plotting capability has been initiated using the Argonne supplied PLOTR4M plotting package. This effort has been delayed due to hardware problems with Energy Inc.'s computer system which was down for three weeks in June due to water damage following a heavy rain storm.
- 3) RELAP4 MOD7 has been received from INEL and is being installed on the LBL computer system. It is difficult to say when this task will be completed. Therefore, the first two SEP containment analyses, Palisades and Oyster Creek will be performed using RELAP4 MOD6.

b) SEP Facility Status

- 1) Palisades - The input deck for blowdown and reflood has been modified to be MOD6 compatible. In addition the hot channel nodes were combined with the average core and the break location was changed to the pump suction. The blowdown calculation were delayed due to computer hardware problems but should be completed in early July.
- 2) Oyster Creek - The input deck for blowdown has been thoroughly reviewed and modified for MOD6. The hot channel has been removed and the break noding relocated to the pump section.
- 3) Palisades and Oyster Creek Containment Status

The decks have been reviewed and are in various stages of review. As discussed at the May 5, NRC meeting, a set of sensitivity studies have been defined to evaluate several modeling areas.

- 4) Decks Received in June

A Ginna blowdown deck and nodalization diagram were received. Additional support documentation on model description is still required and presumably has been requested by NRC.

3. Meetings - No meetings were held during the month of June

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4. Funding

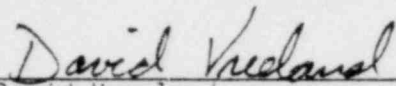
FY80: \$244K

Cost (MO/YTD): \$33K/\$86K

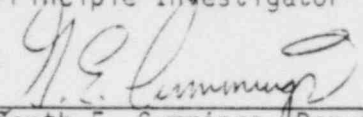
Liens: \$100K

Total Obligation: \$186K

Sincerely



David Vreeland
Principle Investigator



Garth E. Cummings, Deputy
NSSP/Reactor Safety Program

DGV:sac:1867

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