

INTERIM REPORT

August 28, 1980

Accession No. \_\_\_\_\_

Contractors Report No. \_\_\_\_\_

Contract Program or Project Title: Investigation of Accident-Induced  
Flow and Material Transport in Nuclear Facilities

Subject of this Document: Progress reported for July 1980

Type of Document: Informal monthly progress report

Author(s): R. A. Martin and W. S. Gregory

Date of Document: August 14, 1980

Responsible NRC Individual and NRC Office or Division: \_\_\_\_\_  
G. S. Lewis, Systems Performance ... rch Branch, SAFER:RES

This document was prepared primarily for preliminary or internal use. It has not received full review and approval. Since there may be substantive changes, this document should not be considered final.

Prepared by  
Los Alamos Scientific Laboratory  
P.O. Box 1663  
Los Alamos, New Mexico 87545

DISTRIBUTION

- J. Ayer
- A. Clark
- P. Loysen
- L. Rouse
- M. Au
- G. Kligfield
- C. Nichols

Prepared for  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

NRC FIN No. A7029

INTERIM REPORT

NRC Research and Technical  
Assistance Report

8009160 492

University of California



LOS ALAMOS SCIENTIFIC LABORATORY

Post Office Box 1663 Los Alamos, New Mexico 87545

In reply refer to: WX-8-3786 (R673)  
Mail stop: 928

August 14, 1980

Mr. G. S. Lewis  
MS 1130SS  
Systems Performance Branch  
Fuel Cycle & Environmental Research  
Division of Safeguards  
US Nuclear Regulatory Commission  
Washington, DC 20555

Dear Lew:

SUBJECT: R673 MONTHLY PROGRESS LETTER FOR JULY 1980--INVESTIGATION OF  
ACCIDENT-INDUCED FLOW AND MATERIAL TRANSPORT IN NUCLEAR  
FACILITIES

I. MANAGEMENT

We have spent most of July 1980 preparing a justification document for our near-term experimentation. As you know, the justification document was prepared jointly between Pacific Northwest Laboratories (PNL) and ourselves. In this document we described the following:

- a comprehensive program development plan and schedule of deliverables,
- program development needs in analytical support,
- program development needs in experimental support that are based on the NRC controlling parameter list and analytical program needs, and
- the coordination and synchronization of PNL/LASL analytical and experimental programs.

Another area of emphasis this month included working with PNL and Oak Ridge National Laboratory (ORNL) to assure proper interface between PNL/ORNL front-end information and LASL code input requirements. To this end, two walkthroughs were performed by PNL and ORNL for a facility fire and loss of coolant, respectively. The results of these walkthroughs were outlined for you in our briefing on July 25, 1980.

NRC Research and Technical  
Assistance Report

G. S. Lewis  
WX-8-3786 (R673)

-2-

August 14, 1980

Your approval of our development plans at the July 25, 1980, meeting will allow us to devote more of our effort toward the technical areas in the coming months.

II. BUDGET STATUS

Our spending for July 1980 was \$34.4 K, and our cumulative spending through July for FY 1980 is \$252.3 K.

Sincerely,

*R. A. Martin/kmt*

R. A. Martin

*W. S. Gregory/kmt*

W. S. Gregory

RAM/WSG:tg

Cys: J. Mishima/P. Owzarski, PNL  
E. J. Frederick, ORNL  
J. F. Jackson/R. A. Haarman, EP/NRC, MS 671  
L. W. Hantel, WX-DO, MS 686  
W. A. Bradley, WX-8, MS 928  
J. W. Bolstad, WX-8, MS 928  
P. K. Tang, WX-8, MS 928  
R. D. Foster, WX-8, MS 928  
H. A. Lindberg, WX-8, MS 928  
SD-5 (2), MS 150  
WX-8 File, MS 928