

# Los Alamos

Los Alamos National Laboratory  
Los Alamos, New Mexico 87545

DATE December 14, 1984  
IN REPLY REFER TO Q-6-84-106 (R21W)  
MAIL STOP K557  
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## Safety Assessment

Mr. D. M. Carlson  
US Nuclear Regulatory Commission  
Fuel Facility SG Licensing Branch  
Division of Safeguards  
Mail Stop 881-SS  
7915 Eastern Avenue  
Silver Spring, MD 20555

Dear Don:

SUBJECT: NONPOWER REACTOR SABOTAGE STUDY (R21W) STATUS REPORT FOR  
NOVEMBER 1984

We made progress on several tasks during November 1984. Codes for calculating radionuclide inventories are being used for dose rate contour calculations. These include CINDER2, CRAC2, and CONTAIN. A special TRAC-PF1 version for core loss of coolant is being developed as well. Master Logic Diagrams for damage mode identification have indicated areas of focus. Codes for estimating explosive and incendiary damage are being investigated, including DYNA3D and NIKE2D.

Approximately \$8,100 was charged against the project in November 1984. The cumulative charges to date total \$15,500. The breakdown of costs is as follows.

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PDR FOIA  
KUPERMAB9-451 PDR

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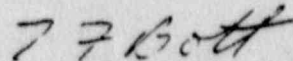
Mr. D. M. Carlson  
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December 14, 1984

	<u>November 1984 (\$k)</u>	<u>Fiscal Year to date (\$k)</u>
Man-months cost	6.8	12.8
Travel costs	0.1	0.1
A.D.P.	0.7	1.8
Outside contracts	0.0	0.0
Other costs	<u>0.5</u>	<u>0.8</u>
Total cost	8.1	15.5
Man-months effort	0.8	1.5

Sincerely,



T. F. Bott

TFB:cd

Enc: As cited

Cys w/enc: Office of the Director, NMSS (Attn: Program Support)  
M. G. Stevenson/W. L. Kirk, Q-DO, MS E561  
L. H. Sullivan/J. R. Ireland, Q-DO/RS, MS K552  
R. A. Haarman/W. S. Gregory, Q-5, MS K557  
CRM 4 (2), MS A150  
Q-6 File