

Lawrence Livermore National Laboratory

NUCLEAR SYSTEMS SAFETY PROGRAM
L-196

WM DOCKET CONTROL
CENTER

December 4, 1986

Mr. Michael E. Blackford A11:07
Project Officer, MS-623ss
Geotechnical Branch (WMGT)
Division of Waste Management, NMSS
Office of Nuclear Materials Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

WM-RES
WM Record File
A0297

WM Project 10, 11, 16
Docket No. _____
PDR
LPDR B, N, S

Distribution
Blackford
34111
(Return to WM, 623-33)

Jeanne - ticket
af

SUBJECT: Monthly Management Letter Report No. 4
Progress for the Month of November 1986
NRC FIN A0297
Technical Assistance in the Identification and
Evaluation of Seismo-Tectonic Issues Related to
Repository Site Characterization Plans

Dear Mr. Blackford:

This is our Monthly Management Letter Report No. 4 under the subject
NRC FIN Number A0297.

1. PROGRESS - NOVEMBER 1986

General:

In accordance with Task II, and the NRC task letter dated 31 October
1986, we accomplished our review and evaluation of the final draft report
entitled "Survey of Geophysical Techniques for Site Characterization in
Basalt, Salt, and Tuff," prepared by the Weston Geophysical Corporation.
We submitted our review letter report on 20 November 1986.

A project coordination meeting was on 18 November 1986.

BWIP:

We are presently improving our draft topical report "Structural
Model, Deformation Style, and Age of Deformation of the Yakima Fold/Thrust
Belt, South-Central Washington and North-Central Oregon," for possible
publication as a NUREG report.

NNWSI:

Our development of a volcanic hazards assessment for the NNWSI site,
Yucca Mountain, Nevada vicinity is under progress. We expect to accomplish
this work by January 1987 in accordance with the NRC task letter dated 23
September 1986.

8612220158 861204
PDR WMRES EXILLL
A-0297 PDR

SALT:

No new progress was made during this reporting period.

2. PLANS FOR NEXT MONTH

The state of in-situ stresses at the BWIP site is of significant factor in our work under goals of the A0297 project. We need to examine this subject closely prior to our review and evaluation of the BWIP SCP report and update. Similarly, for the NNWSI site, we need to examine borehole elongation and its relation to tectonic stresses at the NNWSI site and its vicinity.

At the November 18th, 1986 project coordination meeting, the NRC suggested LLNL prepares a list of potential reports that LLNL will likely produce (under the A0297 contract) during FY87. We will prepare this list.

3. ESTIMATED PROJECT FINANCIAL STATUS

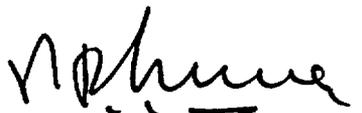
See ATTACHMENT A. The Attachment A will become available in late December 1986. We will submit it when it becomes available.

4. LIST OF CONSULTANTS/SUBCONTRACTORS

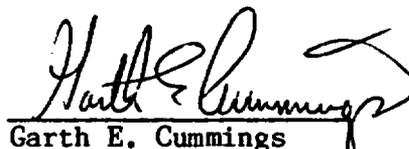
D. B. Slemmons and Associates
Richard W. Galster
Charles (Rus) Purcell
Robert J. Wright

5. PROJECT CONCERNS

A workable budget for FY87 needs to be developed.



Dae H. (Danny) Chung
Project Leader



Garth E. Cummings
NSSP Program Leader

cc: K. Anderson, LLNL/NSSP
W. J. Gallagher, DOE/SAN
E. Davis, NRC/NMSS
J. M. Johnson, LLNL/NSSP
P. S. Justus, NRC/WMGT
J. S. Trapp, NRC/WMGT

ATTACHMENT A

ESTIMATED PROJECT FINANCIAL STATUS:*
(Figures given in thousands.)

Sep-86

FIN A0297

Summary

Cost Analysis:*	Sep-86	Year to Date
I Direct Staff Effort (FTE's)	0.5	0.0 **
II Direct Labor Costs	3.3	3.3
Material & Services	0.0	0.0
ADP Support	0.0	0.0
Subcontracts	0.0	0.0
Travel Expenses	0.0	0.0
Indirect Labor Costs	2.8	2.8
Other (Recharge)	0.1	0.1
Other (FY85 Unbilled Costs)	0.0	0.0
General & Administrative	1.0	1.0
Total Costs	7.2	7.2
Liens		0.0
Total Costs & Liens		7.2
Percentage of Available Funds		9.6%

III Funding Status

Prior Year Carryover	FY 1986 Projected Funding Level	FY 1986 Funds Rec'd to Date	FY 1986 Funding Bal. Needed
0.0	75.0	75.0	0.0

* Note: These figures are for cost analysis only, and may differ slightly from final billing figures.

** FTE average.

ATTACHMENT A

ESTIMATED PROJECT FINANCIAL STATUS:*
 (Figures given in thousands.)

Sep-86

FIN A0294

Summary

Cost Analysis:*	Sep-86	Year to Date
I Direct Staff Effort (FTE's)	1.1	1.7 **
II Direct Labor Costs	7.0	132.1
Material & Services	0.2	13.8
ADP Support	0.0	0.0
Subcontracts	2.2	60.6
Travel Expenses	1.5	21.3
Indirect Labor Costs	6.0	120.4
Other (Recharge)	0.8	12.7
Other (FY85 Unbilled Costs)	0.0	0.0
General & Administrative	7.5	44.7
Total Costs	25.2	405.6
Liens		5.0
Total Costs & Liens		410.6
Percentage of Available Funds		99.9%

III Funding Status

Prior Year Carryover	FY 1986 Projected Funding Level	FY 1986 Funds Rec'd to Date	FY 1986 Funding Bal. Needed
221.2	536.2	190.0	125.0

* Note: These figures are for cost analysis only, and may differ slightly from final billing figures.

** FTE average.