

A-0297

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LPDR - WM-10 (2)
WM-11 (2)
WM-16 (2)

Lawrence Livermore National Laboratory

NUCLEAR SYSTEMS SAFETY PROGRAM
L-196



February 5, 1987

FEB -9 12:08
Mr. Michael E. Blackford
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
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WM Project 10,11,16
Docket No. _____
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LFDR B.N.S.

Distribution:
BLACKFORD Jean Tillet
(Return to WM, 623-SS)

SUBJECT: Monthly Management Letter Report No. 6
Progress for the Month of January 1987
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. 6 under the subject
NRC FIN Number A0297.

1. PROGRESS - JANUARY 1986

General:

Norm Burkhard's (our LLNL expert on seismic reflection surveys)
letter report on his review of the U.S. Geological Survey's
Open-File-Report No. 83-912, entitled "An Evaluation of Seismic Reflection
Studies in the Yucca Mountain Area, Nevada Test Site", and pages 61-66 of
the final draft report by the Weston Geophysical Corporation, entitled
"Survey of Geophysical Techniques for Site Characterization in Basalt,
Salt, and Tuff" was submitted on 15 January 1987.

BWIP:

On the basis of a draft TA work proposal (prepared by D. Burton
Slemmons) for low-sun angle photography and other remote sensing studies of
the Yakima Fold Belt, Slemmons made his presentation for NRC staff on 13
January 1987. The general feeling of the NRC's geology/geophysics staff
was that such a study must first review the existing data covering the
region north and northeast of the Rattlesnake Ridge Anticline and the
Rattlesnake-Wallula Alignment (RAW) in order to fully re-evaluate folds
closest to the proposed Reference Repository Location (RRL). We are
presently in preparation of a proposal which consists of a study program in
two phases: one, our review of all the previous work done for the subject
regions, and two, on the basis of the results of the first phase study, a
second phase study of the region southwest of the RAW, which would include

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the gathering and interpretation of new remote sensing data, is to be made.

NNWSI:

In accordance with the NRC task letter dated 23 September 1986 and also in close coordination with Ms. C. Abrams, H. Larry McKague has prepared his preliminary draft topical report on the potential for volcanism at the Nevada Test Site (NTS) and its immediate vicinity including Yucca Mountain areas. We submitted this draft report on 29 January 1987.

The report on the potential of volcanism by McKague and Burkhard's letter report on reflection seismology are to be useful for preparation of the forthcoming field trip program planned for the week of February 23, 1987.

SALTS:

No new progress was made during this reporting period.

2. PLANS FOR NEXT MONTH

A field trip program for Yucca Mountain areas is presently scheduled for February 22-28, 1987. We expect that Larry McKague, Rus Purcell and Burt Slemmons (and his students) will participate in this field trip program.

The project coordination, along with Larry McKague's presentation on the potential of volcanism at the Yucca Mountain region, is planned for mid-March 1987.

3. ESTIMATED PROJECT FINANCIAL STATUS

See ATTACHMENT A. The Attachment A will become available in late February 1987. 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

None.



Dae H. Chung
Project Leader



Garth E. Cummings
NSSP Program Leader

cc: K. Anderson, LLNL/NSSP
M. Ciraulo, DOE/SAN
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