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# Lawrence Livermore National Laboratory

NUCLEAR SYSTEMS SAFETY PROGRAM  
L-196

March 6, 1987

Mr. ~~Phyllis~~ **16 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  
WM Record File  
**A-0297**  
**662**

PDR-1  
LPDR- WM-10(2)  
WM-11(2)  
WM-16(2)

WM Project **10,11,16**  
Docket No. \_\_\_\_\_  
\* PDR \_\_\_\_\_  
\* LPDR **BNS**  
**Jean Tillet**

Distribution:

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SUBJECT: Monthly Management Letter Report No. 7 (Return to WM, 623-SS)  
Progress for the Month of February 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. 7 under the  
subject NRC FIN Number A0297.

## 1. PROGRESS - FEBRUARY 1986

### General:

In our effort to prepare ourselves in advance for the forthcoming  
review and evaluation of DOE's Site Characterization Plans (SCP's), the  
LLNL Review Team has been organized. The LLNL team consists of seven  
senior staff and several other graduate students. This organization,  
and task assignment for each of these seven key members, had been  
presented to NRC on 9 February 1987, along with marked copies of  
"Annotated Outline For Site Characterization Plans."

During the reporting period, we submitted our Final Summary  
Report (draft) on "Seismo-Tectonic Impacts in Repositories," dated  
January 1987, for our project under NRC FIN No. A-0294.

### BWIP:

On 13 January 1987, D. Burt Slemmons made his presentation on the  
need for additional remote sensing studies (including low-sun angle  
photography) of the Yakima fold belt. NRC staff suggested 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). Burt  
Slemmons is presently engaged in his preparation of a proposal

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

NNWSI:

In close coordination with Ms. C. Abrams of NRC/WMGT, DOE's Nevada Office, the U.S. Geological Survey, and the State of Nevada, H. Larry McKague and C. Rus Purcell participated and led field trip programs during the period of February 15-25, 1987. A trip report on the NNWSI site visit and these field trips is being prepared jointly by Rus Purcell and Larry McKague.

SALTS:

The report entitled "Petroleum Potential of Two Sites in Deaf Smith and Swisher Counties, Texas Penhandle," BMI/ONWI-621 and two other related DOE's documents (BMI/ONWI-589 and BMI/ONWI-590) have been received for our review and evaluation on 25 February 1987. We are presently engaged in our evaluation of these documents. We plan to submit our review report on these documents by the end of March 1987.

2. PLANS FOR NEXT MONTH

The project coordination, along with Larry McKague's presentation on the potential of volcanism at the Yucca Mountain region, is being planned for April/May 1987.

3. ESTIMATED PROJECT FINANCIAL STATUS

See ATTACHMENT A. The Attachment A will become available in late March 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

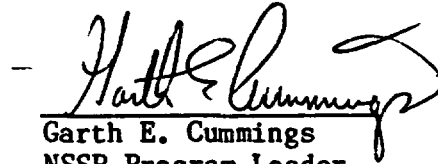
5. PROJECT CONCERNS

None.

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Dae H. (Danny) Chung  
Project Leader



Garth E. Cummings  
NSSP Program Leader

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