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NUCLEAR SYSTEMS SAFETY PROGRAM

WM DOCKET CONTROL
L-196
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October 3, 1986

WM-RES
WM Record File
A0297
LHK

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

Mr. Michael E. Blackford ^{86d} OCT -6 P123
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

Blackford Man-ticket

(Return to WM, 623-SS)

SUBJECT: Monthly Management Letter Report No. 2
Progress for the Month of September 1986
NRC FIN A0297
Technical Assistance in the Identification and
Evaluation of Seismo-Tectonic Issues Related to
Repository Site Characterization Plans

Original not rec'd

Dear Mr. Blackford:

This is our Monthly Management Letter Report No. 2 under the subject
NRC FIN Number A0297.

1. PROGRESS - SEPTEMBER 1986

BWIP:

The subject of in-situ stress in basalt in the BWIP site is of significant factor in our future evaluation of the BWIP SCP and its update. We received a RHO technical report entitled "Characterization of the State of In-Situ Stress by Hydraulic Fracturing for a Nuclear Waste Repository in Basalt," by Kim et al. (RHO-BW-SA-551 P). In accordance with Task II, we reviewed and evaluated this report. This report summarizes hydraulic fracturing tests designed to characterize the state of in-situ stress in four (4) deep boreholes within the BWIP site. The results of these tests were examined in light of stress indicator data, which include core diskings, borehole wall spalling, and fault plane solution data obtained at the site. Our findings from this review and evaluation is considered to be a supportive element of Task 1 of the A0297 project.

NNWSI:

The NRC task letter dated 23 September 1986 was received for our development of a volcanic hazards assessment for the Yucca Mountain, Nevada vicinity. In close coordination with Ms. C. Abrams, a lead WMGT geologist for the NNWSI site, our work on assessing volcanic hazards at the NNWSI site and its vicinity had been initiated under the A0294 project during this reporting period. We are making good progress on this task; we expect to accomplish this work in accordance with our work plans by January 1987 under the A0297 project.

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SALTS:

No progress was made during this reporting period.

2. PLANS FOR NEXT MONTH

A project coordination meeting is desired in early November 1986. 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.

3. ESTIMATED PROJECT FINANCIAL STATUS

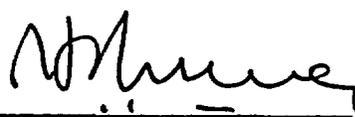
See ATTACHMENT A. The Attachment A will become available in late October 1986. We will submit it when it becomes available.

4. LIST OF CONSULTANTS/SUBCONTRACTORS

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

5. PROJECT CONCERNS

None.


Dae H. (Danny) Chung
Project Leader


Garth E. Cummings
NSSP Program Leader

cc: K. Anderson, LLNL/NSSP
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