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QA: QA

Contract #: DE-AC08-91RW00134
LV.R&L.MAL.11/99/068

November 19, 1999

Suzanne P. Mellington
Assistant Manager
Office of Project Execution
U.S. Department of Energy
Yucca Mountain Site Characterization Office
P.O. Box 30307
North Las Vegas, NV 89036-0307

Dear Ms. Mellington:

Subject: Transmittal of Deliverable No. SLP58CM3, "Submit ISM
PMR Rev 00" [Work Breakdown Structure 1.2.21.3.I
(Integrated Site Process Model Report); Work Package
Identifier 1401213IM1]

Reference: Letter, Lugo to Mellington, dated October 29, 1999,
Transmittal of Draft Integrated Site Model Process Model
Report

This letter provides Planning and Control System (PACS) Deliverable No. SLP58CM3, "Submit ISM PMR Rev 00" to the Yucca Mountain Site Characterization Office (YMSCO). As I mentioned in the letter referenced above, which transmitted a draft copy of the PMR, we did not submit the deliverable as scheduled on October 29, 1999, in order to address several unresolved issues that had been raised by the U.S. Geological Survey (USGS). These issues have now been resolved.

Enclosure 1 provides the subject document. Enclosure 2 provides a copy of the YMP Deliverable Acceptance Review form. Enclosure 3 provides a complete listing of the Data Tracking Numbers (DTNs) and Q-status for data, software, and models used directly in the PMR and in the supporting AMRs. Enclosure 4 provides a copy of the Work Breakdown Structure Planning Sheet.

TRW Inc.

This deliverable meets all the evaluation criteria identified in the WBS Planning Sheet. As required by the WBS Planning Sheet, Enclosure 3 provides a detailed list of the verification/qualification/validation status of the supporting data, software, and models, as of the date of this transmittal. The enclosure also explains how these percentages were calculated. This status is summarized below:

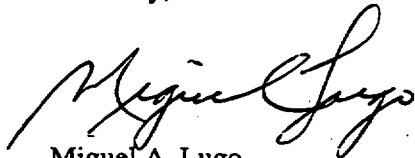
Data Verification	64% complete
Data Qualification	46% complete
Software Qualification	96% complete
Model Validation	100% complete

The ISM in itself does not directly support the factors of the safety case identified in the Repository Safety Strategy, Rev. 3. However, the model does support the development of the unsaturated and saturated flow and transport models, which do directly support specific factors of the safety case. Therefore, for purposes of data verification/qualification, we made a conservative determination at this time that the ISM supports the safety case.

This PMR has undergone a technical and management review by the M&O under procedure AP-2.14Q, and all comments have been resolved.

If you have any questions, please feel free to call me at (702) 295-4761, or Larry Hayes at (702) 295-5604.

Sincerely,



Miguel A. Lugo
Process Model Report Manager
Regulatory and Licensing Organization
Management and Operating Contractor

MAL:kas

Enclosures:

1. Integrated Site Model Process Model Report, Rev. 00
2. YMP Deliverable Acceptance Review Form
3. DTN and Q-status Listing
4. WBS Planning Sheet

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