



DEPARTMENT OF ENERGY

Office of Civilian Radioactive Waste Management
Office of Geologic Disposal
Yucca Mountain Site Characterization Project Office
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WBS 1.2.11
QA: N/A

MAR 9 1994

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Site Characterization Project
TRW Environmental Safety Systems, Inc.
Bank of America Center, Suite P-110
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ISSUANCE OF SURVEILLANCE RECORD YMP-SR-94-030 RESULTING FROM YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) SURVEILLANCE OF THE CIVILIAN RADIOACTIVE WASTE MANAGEMENT SYSTEM MANAGEMENT AND OPERATING CONTRACTOR (CRWMS M&O) (SCP: N/A)

Enclosed is the record of Surveillance YMP-SR-94-030 conducted by the YMQAD at the CRWMS M&O facilities in Las Vegas, Nevada, on February 8-14, 1994.

The purpose of the surveillance was to verify that procedures adequately describe the preparation, review, and approval of test interference evaluations.

One corrective action request (CAR) was issued as a result of this surveillance. Response to the CAR, which was transmitted via separate letter, is due by the date indicated in Block 11 of the CAR.

This surveillance is considered completed and closed as of the date of this letter. A response to this surveillance record and any documented recommendations is not required. However, the open CAR will continue to be tracked until it is closed to the satisfaction of the quality assurance representative and the Director, YMQAD.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Robert L. Howard at 794-7820.

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:RBC-2298

Enclosure:
Surveillance Record YMP-SR-94-030

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PDR WASTE
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ADD: Ken Hooks

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MAR 9 1994

L. Dale Foust

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cc w/encl:

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9BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS:

Objective Evidence Reviewed: M&O NLP-3-16, Revision 0

TIE for the North Ramp Alcove No. 1 Construction and Associated Testing in the Exploratory Studies Facility (ESF), Document ID: BABEAD000-01717-2200-00061, REV02

Test Interference Evaluation for Erection of the Tunnel Boring Machine (TBM) on the North Portal Pad, Document ID: BABEAA000-01717-00097, REV00

Determination of Importance Evaluation for the ESF Starter Tunnel Drill and Blast Section Document ID: BAB000000-01717-2200-00003-07

Letter, RSED:CMN-1405, J. Russell Dyer to L. Dale Foust, dated January 5, 1994

Draft TIDBITS

Personnel Contacted:

C. T. Statton, M&O Site Characterization Manager

Richard Quitameyer, M&O Site Characterization

John R. Gauthier, TIDBITS Manager

Claudia Newberry, U.S. Department of Energy Regulatory and Site Evaluation Division

Ronald D. Oliver, Los Alamos National Laboratory Test Coordination Office

Surveillance Results:

Yucca Mountain Quality Assurance Division (YMQAD) staff reviewed M&O NLP-3-16, Revision 0, Development of Test Interference Evaluations. YMQAD staff verified that the procedure specifies the process and content requirements for the preparation, review and approval of test interference evaluations. YMQAD staff verified that the procedure specifies that TIEs undergo an independent technical review as required by the Quality Assurance Requirements and Description (QARD) Section 2.2.9 prior to approval.

NLP-3-16, Paragraph 5.5.1 requires the TIE Preparer to transmit TIEs that may become design inputs to the Determination of Importance Evaluations (DIE) group in accordance with QAP-3-12. YMQAD staff verified that TIE that are necessary inputs to are transmitted to the DIE group in accordance with M&O Quality Assurance Procedure (QAP)-3-12.

YMQAD staff reviewed the TIE for the North Ramp Alcove No. 1 Construction and Associated Testing in the Exploratory Studies Facility Document ID: BABEAD000-01717-2200-00061 REV02. The test interference evaluation conforms to the format and content requirements specified in NLP-3-16 with the exception of information checklist item I.C.3. "expected amount of surface disturbance" which was not discussed or marked N/A as required by the procedure. This deficiency was corrected during the course of the surveillance.

YMQAD staff noted that Section III of the test interference evaluations contains "suggested controls" rather than clearly identifying what controls are necessary to ensure that ESF Test Alcove No. 1 Construction does not interfere with any proposed test. Because the information is presented in the form of "suggested controls," the DIE preparer, who uses the TIE as input, must further evaluate the "suggested controls" in order to identify the necessary controls. YMQAD recommends that requirements and controls resulting from TIEs be clearly identified by the TIE preparer, rather than relying on the DIE preparer to identify the control. Additionally, the suggested controls not derived from upper-tier requirements documents are not always backed by quantitative analyses. YMQAD recommends that in those cases where controls are not derived from requirements documents, those controls should be supported by quantitative analyses as appropriate.

YMQAD verified that Test Interference Evaluation for Erection of the TBM on the North Portal Pad Document ID: BABEAA000-01717-00097, REV00 conforms to the format and content requirements of NLP-3-16.

YMQAD staff reviewed the draft TIDBITS and discussed preparation and review of the Test Interference Data Base Information Tracking System with the TIDBITS manager. After discussions with the TIDBITS manager, YMQAD staff determined that the review criteria specified in NLP-3-16 for the review of the TIDBITS does not adequately describe the requirements necessary to ensure that the TIDBITS is complete or adequate. This deficiency is documented in Corrective Action Request (CAR) YM-94-020. Since the TIDBITS is currently in the review process, the procedure is considered deficient and should be revised prior to the TIDBITS approval.

¹⁰SURVEILLANCE CONCLUSIONS:

One CAR related to the adequacy of the review criteria specified in M&O NLP-3-16 for the TIDBITS was issued as a result of the surveillance. Use of the TIDBITS could not be evaluated because the system has not been implemented to date.

With the exception the minor deficiency noted above that was corrected during the course of the surveillance, preparation, review, and approval of TIEs as specified by NLP-3-16 was adequately implemented.