



**Department of Energy**  
**Office of Civilian Radioactive Waste Management**  
**Yucca Mountain Site Characterization Office**  
**P.O. Box 98608**  
**Las Vegas, NV 89193-8608**

WBS 9.1.2  
OA: N/A

**MAY 18 1994**

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ISSUANCE OF SURVEILLANCE RECORD YMP-SR-94-041 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-94-041 conducted by the YMQAD at the CRWMS M&O facilities in Las Vegas, Nevada, March 22-23, 1994 and April 12-15, 1994.

The purpose of the surveillance was to determine and verify that the process for Quality Assurance (QA) Classification of CRWMS M&O controlled drawings and specifications is in accordance with applicable CRWMS M&O procedures and the project QA program.

No Corrective Action Requests were issued as a result of this surveillance.

This surveillance is considered completed and closed as of the date of this letter. A response to this surveillance record and any documented recommendations are not required.

If you have any questions, please contact either Robert B. Constable at 794-7945 or Raul A. Hinojosa at 794-7991.

Robert M. Smith      la

YMOAD:RBC-3505

**Richard E. Spence, Director**  
**Yucca Mountain Quality Assurance Division**

Enclosure:  
Surveillance Record  
YMP-SR-94-041

9508150021 950518  
PDR WASTE  
WM-11 PDR

**YMP-5**

ADD: Jack Spraul T739

MAY 18 1994

L. Dale Foust

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cc w/encl:

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OFFICE OF  
RADIOACTIVE WASTE MANAGEMENT  
U.S. DEPARTMENT OF ENERGY  
WASHINGTON, D.C.

QUALITY ASSURANCE SURVEILLANCE RECORD

SURVEILLANCE DATA

<sup>1</sup> ORGANIZATION/LOCATION: Management and Operating (M&O) Contractor/Las Vegas, NV	<sup>2</sup> SUBJECT: Quality Assurance (QA) Classification of Drawings and Specifications	<sup>3</sup> DATE: 3/22/94
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<sup>4</sup>SURVEILLANCE OBJECTIVE:  
To determine and verify that the process for QA Classification of M&O controlled drawings and specification is in accordance with applicable M&O procedures and the project QA program.

<sup>5</sup> SURVEILLANCE SCOPE: To determine that the process for indicating the applicable QA classification of permanent structures, systems and components or activities described in M&O controlled Drawing and Specifications for the MGDS is in accordance with the requirements of M&O Contractor procedures NLP 3-18, Revision 1 and QAP 2-3, Revision 6 and the OCRWM QA program; and that the basis of "Q" designations for temporary items or activities are determined by the pertinent Determination of Importance Evaluation (DIE).	<sup>6</sup> SURVEILLANCE TEAM: Team Leader: <u>Raul A. Hinojosa</u> Additional Team Members: _____ _____
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<sup>7</sup> PREPARED BY: <u>Raul A. Hinojosa</u> 3/10/94 Surveillance Team Leader Date	<sup>8</sup> CONCURRENCE: <u>Robert B. Constable</u> for 3/10/94 QA Division Director Date
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SURVEILLANCE RESULTS

<sup>9</sup>BASIS OF EVALUATION, DESCRIPTION OF OBSERVATIONS:  
  
See Pages 2 and 3

<sup>10</sup>SURVEILLANCE CONCLUSIONS:  
  
See Page 4

<sup>11</sup> COMPLETED BY: <u>Raul A. Hinojosa</u> 5/12/94 Surveillance Team Leader Date	<sup>12</sup> APPROVED BY: <u>Robert B. Constable</u> for 5.17.94 QA Division Director Date
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**Block 9 (continued) BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS:**

Reviewed Exploratory Studies Facility (ESF) Package 1A drawings in the process of revision to verify that the M&O had processed the drawings in accordance with the applicable procedures and the project QA program to determine the QA classification of specifications and drawings. Also reviewed the project specifications listed below to verify that the M&O had processed them in accordance with the applicable procedures and the project QA program to determine their QA classification. This surveillance was performed during the following dates: March 22 through 23, 1994, and April 12 through 15, 1994.

The applicable procedures are as follows:

MGP-3-8, Revision 0, PO2, "Revisions to Engineering Drawings Issued by Raytheon Services Nevada"

MGP-3-9, Revision 0, PO1, "Revisions to Procurement and Design Specifications Issued by Raytheon Services Nevada"

NLP-3-14, Revision 0, PO1, "Discipline and Inter-discipline Checking of Engineering Drawings Specifications"

NLP-3-15, Revision 0, PO2, "To be Verified (TBV) and To be Determined (TBD) Monitoring System"

NLP-3-18, Revision 1, "Documentation of QA Classification/Controls on Drawings and Specifications"

QAP-2-3, Revision 6, PO1, "Classification of Permanent Items"

QAP-3-10, Revision 3, PO2, "Engineering Drawings"

The applicable DIE is DIE No BAAB000000-01717-2200-00003-07, "Determination of Importance Evaluation for ESF Starter Tunnel Drill and Blast Section"

The following drawings were reviewed for the appropriate QA classification in accordance with the above cited DIE, the project Q-List, and the project Management Control (MC) List

YMP-025-1-MING-MG121, Revision 3, "Exploratory Studies Facility (ESF), Package (PKG) 1A, Starter Tunnel Gen. (General) Arrangement Plan, (Sht. 2)

YMP-025-1-MING-MG123, Revision 4, "ESF PKG 1A, Starter Tunnel Gen (General) Arrangement Section (Sht. 2)

YMP-025-1-MING-MG125, Revision 3, "ESF PKG 1A, Starter Tunnel Gen. (General) Arrangement Sections"

YMP-025-1-MING-MG126, Revision 3, "ESF PKG 1A, Starter Tunnel Railway Layout Plan and Section"

YMP-025-1-MING-MG128, Revision 3, "ESF PKG 1A, Starter Tunnel Test Alcove Elevation and Section"

YMP-025-1-MING-MG143, Revision 3, "ESF PKG 1A, Starter Tunnel Rock Support Section and Details"

YMP-025-1-MING-MG147, Revision 3, "ESF PKG 1A, Starter Tunnel Ventilation G. A. Plan and Section"

YMP-025-1-MING-MG160, Revision 0, "ESF PKG 1A, Launch Chamber General Arrangement Plan and Sections"

The following specification sections were reviewed to verify that the appropriate QA classifications in accordance with the above cited DIE, the project Q-List and the project MC List were utilized in the identification of items and activities

Specification YMP-025-1-SP09, Revision 2, "Exploratory Studies Facility, Package 1A Starter Tunnel and Portal Structure"

Section 01300, Revision 1, "Submittals"

Section 01400, Revision 1, "Contractor Quality Control/Quality Assurance"

Section 01511, Revision 0, "Contractor Performance Specification Temporary Subsurface Utility System"

Section 02165, Revision 3, "Rockbolts and Accessories"

Personnel contacted during the surveillance:

Manny De Leon	M&O
Robert W. Kirk	M&O
Robert Saunders	M&O
William L. Petrie	M&O
Norman Bartley	M&O
Kathy Jerome	M&O
George P. Vaslos	M&O
Daniel A. Klimas	QATSS
Steve R. Maslar	QATSS
Steve R. Dann	QATSS

**Block 10 (continued) SURVEILLANCE CONCLUSIONS:**

All activities observed were in compliance with the applicable procedures. There were no deficiencies or discrepancies observed during the surveillance. The observed activities indicated that the above procedures are being adequately and effectively implemented. There are only the following observations/comments.

- 1) The M&O QA department issued a Corrective Action Request (CAR) No. 94-QN-C-012 because of the ambiguities, inconsistencies and conflicts between procedures regarding the QA classification of drawings and specifications. The corrective action to this CAR is still in process.
- 2) M&O Procedures MGP-3-8 and NLP-3-15 do not give guidance or impose any controls on drawings that are classified as TBV for a QA classification. This is not in accordance with the Quality Assurance Requirements and Description, Section 3, Paragraph 3.2.4 E 2 which states as follows:

"In some cases (such as when insufficient data exists) it may be necessary to release unverified designs to other organizations to support schedule requirements. *Unverified portions of the design shall be clearly identified and controlled*" Italics and underlining added for emphasis. No CAR is being issued since the CAR response to the internal CAR (M&O CAR No. 94-QN-C-012) and dated 17 February 1994 states that all QA Classifications as of 1 April 1994 are to be in accordance with the classifications given in M&O procedures NLP-3-18 and QAP-2-3. These last two procedures do not have the classification of TBV or TBD.