



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

OCT 06 1995

L. Dale Foust
Technical Project Officer
for Yucca Mountain
Site Characterization Project
TRW Environmental Safety Systems, Inc.
Bank of America Center, Suite P-110
101 Convention Center Drive
Las Vegas, NV 89109

ISSUANCE OF SURVEILLANCE RECORD YMP-SR-95-054 RESULTING FROM
YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION'S (YMQAD) SURVEILLANCE
OF YUCCA MOUNTAIN SITE CHARACTERIZATION OFFICE (YMSCO) MANAGEMENT
& OPERATING CONTRACTOR (M&O), LAS VEGAS, NEVADA (SCPB: N/A)

Enclosed is the record of Surveillance YMP-SR-95-054 conducted by
the YMQAD at the YMSCO/M&O facilities in Las Vegas, Nevada,
September 11-15, 1995.

The purpose of the surveillance was to determine if the process
for physical interface control, as described in YAP 3.6Q, is
implemented and necessary.

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.

If you have any questions, please contact either Mario R. Diaz at
794-7974 or Patrick V. Auer at 794-7166.

Richard E. Spence, Director
Yucca Mountain Quality Assurance Division

YMQAD:MRD-4645

Enclosure:
Surveillance Record
YMP-SR-95-054

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102.7
WM-11
NH03

YMP-5

9510230121 951006
PDR WASTE PDR
WM-11

OCT 06 1995

cc w/encl:

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R. W. Clark, HQ (RW-3.1) FORS
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cc w/o encl:

P. V. Auer, YMQAD/QATSS, Las Vegas, NV
W. E. Barnes, YMSCO, NV
R. L. Craun, YMSCO, NV
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OFFICE OF
 RADIOACTIVE WASTE MANAGEMENT
 U.S. DEPARTMENT OF ENERGY
 WASHINGTON, D.C.

QUALITY ASSURANCE SURVEILLANCE RECORD

SURVEILLANCE DATA

¹ORGANIZATION/LOCATION:
 Yucca Mountain Site
 Characterization Office
 (YMSCO)/ Management &
 Operating Contractor (M&O),
 Las Vegas, NV

²SUBJECT:
 Yucca Mountain Project Site
 Characterization Project Administrative
 Procedure (YAP) 3.6Q, Revision 0, Physical
 Interface Control

³DATE:
 September 11 through 15, 1995

⁴SURVEILLANCE OBJECTIVE:
 Determine if the process for physical interface control as described in YAP 3.6Q is implemented and necessary.

⁵SURVEILLANCE SCOPE:
 Verify the process for interface control (YAP 3.6Q) is appropriate and
 adequately implemented for project level (Level C) interfaces on the Yucca
 Mountain Project and determine if the procedure is necessary.

⁶SURVEILLANCE TEAM:
 Team Leader:
Patrick V. Auer
 Additional Team Members:
N/A

⁷PREPARED BY:
Patrick V. Auer 9-21-95
 Surveillance Team Leader Date

⁸CONCURRENCE:
N/A
 QA Division Director Date

SURVEILLANCE RESULTS

⁹BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS:
 See Page(s) 2 through 3

¹⁰SURVEILLANCE CONCLUSIONS:
 See Page(s) 4

¹¹COMPLETED BY:
Patrick V. Auer 9-21-95
 Surveillance Team Leader Date

¹²APPROVED BY:
[Signature] 9-26-95
 QA Division Director Date

Block 9 (continued) BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS:

The purpose of this surveillance was to verify compliance with YAP 3.6Q, Revision 0, Physical Interface Control. This includes a review of implementation, frequency of use, and effectiveness of the process for physical interface control. The surveillance was performed from September 11 through 15, 1995, at the Bank of America building in Las Vegas, Nevada.

INTERFACES

The purpose of the procedure is to control "Level C" or project level interfaces on the Yucca Mountain Site Characterization Project (YMP) as required in the Yucca Mountain Project Configuration Management Plan, YMP/CC0026, Rev. 0. Level C interfaces include those between YMP systems (e.g., Repository, Waste Package, Exploratory Studies Facility [ESF] and Site configuration items) and are controlled by YMSCO.

Interface Control Documents (ICD) are required to be prepared when the design of physical features between items such as the potential repository and the ESF should be compatible and could result in unnecessary complications, mismatches, and duplicated work if compatibility is not documented.

At this time, only one set of interface documents have been developed. The ICDs (see list below) reviewed address the interface between the ESF and Geological Repository Operations Area (GROA). These ICDs were developed by the M&O to add new ESF/GROA conceptual interface drawings to the Project Baseline in accordance with Change Request (CR) 94/085. This action was documented on Interface Revision Notice (IRN) number 660028. The IRN was used to supersede ESF/Repository drawings previously baselined by IRN 660027.

The Interface Control Working Group (ICWG) is responsible for identifying project level interface requirements and providing guidance for preparation and revision of ICDs. The ICWG operates in accordance with the ICWG Charter as required by YAP 3.6Q. IRN 660028 was approved by participants and the ICWG chairperson.

USE OF YAP 3.6Q

Discussions with the M&O Requirements Manager and Deputy Assistant Manager for Suitability and Licensing (AMSL) indicate that the procedure is not being used very often as evidenced by the dates of the last ICD and IRN. M&O Project Interface Control personnel indicated the procedure will be used when a revised set of ICDs is completed. The revised set of ICDs will include seven drawings with more extensive details, including coordinates for the potential repository. The M&O expects to complete these ICDs early in fiscal year 1996. Only two sets of ICDs (see list below) have been developed using the YAP 3.6Q process, one of which is superseded.

In addition, the M&O is assuming control of the ICWG process from YMSCO as requested by YMSCO letter AMSL:DCR-3918, dated 7/25/95, W. E. Brocoum to L. D. Foust. This action is in the process of being accomplished by an ICN, in accordance with Document Action Request (DAR) 1673.

DOCUMENTS REVIEWED:

Yucca Mountain Administrative Procedure YAP 3.6Q, Revision 0, "Physical Interface Control."

Yucca Mountain Site Characterization Project Interface Control Working Group Charter, December 27, 1993.

Memorandum, Richard Jiu to Stephen J. Brocoum, subject, July 1995 Interface Status Report, dated August 1, 1995.

Corrective Action Request (CAR) Number YM-95-026 and associated documentation.

Interface Control Documents:

BC000000-01717-2100-89100, Rev. 00, Integrated Layout (w/o Calico), ESF/GROA Interface 1 of 6,

BC000000-01717-2100-89101, Rev. 00, Integrated Layout (w/Calico Hills Drifting), ESF/GROA Interface 2 of 6,

BC000000-01717-2100-89102, Rev. 00, Section "A" through Integrated Layout, ESF/GROA Interface 3 of 6,

BC000000-01717-2100-89103, Rev. 00, Section "C" along North Ramp and Extension, ESF/GROA Interface 4 of 6,

BC000000-01717-2100-89104, Rev. 00, Section "B" along TS Main Drift (Repos. Serv. Main), ESF/GROA Interface 5 of 6,

BC000000-01717-2100-89105, Rev. 00, Section "D" along South Ramp and Extension, ESF/GROA Interface 6 of 6,

YMSCO letter AMSL:DCR-3918, dated 7/25/95, WEB to LDF

IRN 660028, Date closed: 8/1/94

DAR 1673

PERSONNEL CONTACTED:

Bob Barton, DOE Deputy AMSL
Richard Jiu, M&O Systems Engineering
Sam Rindskopf, M&O Requirements Manager

Block 10 (continued) SURVEILLANCE CONCLUSIONS:

In conclusion, the process for controlling physical interfaces at the project level (Level C) is considered adequate for the interfaces reviewed. No deficiency documents were issued as a result of this surveillance; however, one recommendation for consideration is listed below. Use of the Physical Interface Control process specified in YAP 3.6Q is infrequent but appears to be necessary. The process could possibly be controlled by an M&O design interface procedure or within appropriate work planning documents.

RECOMMENDATION:

1. Evaluate the need to maintain a "YAP" level procedure for the physical interface process and cancel the procedure if it is deemed unnecessary or could be replaced by an M&O level procedure.