

August 7, 1995

Mr. Ronald A. Milner, Director  
 for Program Management and Integration  
 Office of Civilian Radioactive Waste Management  
 U.S. Department of Energy, RW 30  
 1000 Independence Avenue, S.W.  
 Washington, D.C. 20585

SUBJECT: MINUTES OF THE JULY 11, 1995, QUALITY ASSURANCE MEETING

Dear Mr. Milner:

I am transmitting the enclosed minutes of the periodic quality assurance (QA) meeting that was held on July 11, 1995. This technical meeting was held by videoconference between Department of Energy (DOE) contractor facilities in Las Vegas, Nevada and Washington, D.C. Attendees represented the Nuclear Regulatory Commission, DOE's Office of Civilian Radioactive Waste Management (OCRWM), the State of Nevada, Clark County, Nevada, the National Congress of American Indians, OCRWM's QA Technical Support Services Contractor, OCRWM's Management and Operating Contractor, and Weston.

If you have any questions regarding this letter or the enclosed meeting minutes, please contact Pauline Brooks of my staff at (301) 415-6604.

Sincerely,  
 (Original signed by John O. Thoma for)  
 Joseph J. Holonich, Chief  
 High-Level Waste and Uranium  
 Recovery Projects Branch  
 Division of Waste Management  
 Office of Nuclear Material Safety  
 and Safeguards

Enclosure: As stated

cc: See attached list

DISTRIBUTION: CNWRA NMSS R/F DWM R/F HLUR R/F MFederline  
 MStein, OGC MBell JAustin RBaer On-Site Reps JBuckley  
 JJankovich CHaughney FSturz DGraser FILE CENTER LSS  
 ACNW PUBLIC CNWRA MDelligatti BMabrito

S:\DWM\HLUR\PPB\QAMTGMIN.711

OFC	HLUR	E	HLUR	E	HLUR	E	HLUR	E
	PPBrooks		JSpraul		JThoma		JHolonich	
DATE	08/07/95		08/7/95		08/7/95		08/7/95	

C = COVER E = COVER & ENCLOSURE N = NO COPY

OFFICIAL RECORD COPY

9508100346 950807  
 PDR WASTE  
 WM-11 PDR

102.7  
 WM-11  
 N/A 16

CC LIST FOR LETTER TO R. MILNER DATED August 7, 1995

- cc: R. Loux, State of Nevada
- J. Meder, Nevada Legislative Counsel Bureau
- W. Barnes, YMPO
- C. Einberg, DOE/Wash, DC
- M. Murphy, Nye County, NV
- M. Baughman, Lincoln County, NV
- D. Bechtel, Clark County, NV
- D. Weigel, GAO
- P. Niedzielski-Eichner, Nye County, NV
- B. Mettam, Inyo County, CA
- V. Poe, Mineral County, NV
- W. Cameron, White Pine County, NV
- R. Williams, Lander County, NV
- L. Fiorenzi, Eureka County, NV
- J. Hoffman, Esmeralda County, NV
- C. Schank, Churchill County, NV
- L. Bradshaw, Nye County, NV
- W. Barnard, NWTRB
- R. Holden, NCAI
- A. Melendez, NIEC
- S. Brocoum, YMPO
- R. Arnold, Pahrump, NV
- M. Stellavato, Nye County, NV

## MINUTES OF THE JULY 11, 1995, QUALITY ASSURANCE MEETING

A meeting of the staff of the U.S. Nuclear Regulatory Commission and representatives of the U.S. Department of Energy (DOE), Office of Civilian Radioactive Waste Management (OCRWM) was held on July 11, 1995, to discuss items of mutual interest with regard to quality assurance (QA). The meeting, held by videoconference between DOE contractor offices in Washington, D.C. and Las Vegas, Nevada, was convened at 1:00 PM EDT. Other attendees were the State of Nevada; Clark County, Nevada; the National Council of American Indians; OCRWM's Yucca Mountain Project Office Quality Assurance Division (YMQAD); OCRWM's QA Technical Support Services Contractor; OCRWM's Management and Operating Contractor (M&O); and Weston. Attachment 1 provides the attendance list.

At this meeting, DOE presented information on the following topics: (1) the DOE/Nye County cooperative drilling program, (2) DOE's audit and surveillance schedules, (3) QA overview of site characterization field activities, (4) the status of implementing the revised Quality Assurance Requirements and Description (QARD), (5) the status of letters regarding the changing of the QA verification function to DOE and the "flow-down" resulting from consolidating DOE's contractor structure, (6) the status of the M&O's exploratory studies facility design package and related corrective action requests (CARs), (7) the status of the multi-purpose canister (MPC), and (8) the extent of technical report problems for two participants.

Other topics discussed were NRC's presentation of information on the following topics: (1) status of its QA open items, (2) results of NRC observations of recent DOE audits, (3) its review of DOE's revised QARD, (4) NRC's in-field verification of the Yucca Mountain site activities, and (5) the vertical slice approach. Attachment 2 is the agenda for the meeting and shows the attachment numbers for overheads/handouts presented during the meetings.

The meeting began with opening remarks followed by self-introduction of the attendees. Then NRC presented an update on the status of its QA open items. Attachment 3 summarizes two NRC open items regarding QA. The open item regarding electronic record-keeping resulting from NRC Observation Audit Report 94-12 (dated 01/27/95) was closed by letter dated May 2, 1995. Additional modifications in the language of the QARD that would close the remaining open item regarding validation of software programs are under way.

NRC provided a summary report of its observation of the DOE audit HQ-ARC-95-04 conducted February 7-10 at the M&O offices in Vienna, Virginia and February 21-24 at the M&O offices in Las Vegas, Nevada. (See Attachment 4.) Overall, NRC staff agreed with preliminary audit team findings at this audit, that five open issues should be satisfactorily resolved. DOE stated that in the final audit report the M&O was considered base-lined, with the notation that open items from prior audits should not be overlooked.

The status of the DOE/Nye County cooperative drilling program was then presented by DOE. Nye County is now gathering data for independent field investigations from boreholes USW-NRG-4 and U-25 ONC#1. See Attachment 5.

In discussing the status of its Fiscal Year 1995 (FY 95) schedule for audits and surveillances, DOE noted the changes to Revision 3 of the FY 95 audit schedule that are shown in Attachment 6. The second page of the attachment shows the status of surveillances for FY 95. NRC continues to follow the surveillances only through the reports.

An update on QA overview of the Yucca Mountain Site Characterization field activities was provided by DOE. One significant CAR regarding an improper water to cement ratio has been issued since the April NRC-DOE QA meeting. Surveillances, job package reviews, and a test planning package review completed are shown in Attachment 7.

DOE then discussed its ongoing revision of the QARD. DOE summarized the scope, purpose and timing of Revisions 1, 2, 3, and 4 (Attachment 8). Revision 3 has been issued and a copy was reported to be enroute to NRC. This revision is to be effective July 13, 1995. Revision 4, a general revision which will include a new supplement on electronic data management, is under review. With the completion of the Requirements Traceability Network Matrix for EM-343 (the Vitrification Projects Division of DOE's Environmental Restoration and Waste Management organization) all requirements matrix reviews are complete as shown in Attachment 8. Any NRC comments on Revision 4 will be responded to in Revision 5 of the QARD.

NRC then presented a summary (Attachment 9) of its in-field verification (IFV) which was conducted April 3 through 6, 1995 at DOE and M&O offices in Las Vegas and at Yucca Mountain. This IFV generally verified the acceptability of implementation commitments made in DOE's letter of November 14, 1994.

DOE noted that the letter on changing the QA verification function to DOE and the "flow-down" letter scheduled for issuance are being reviewed.

In the following discussion DOE addressed the status of CARs for Design Package 2C. Attachment 10 summarizes the status of the two open CARs related to Design Package 2C remaining from the original 19 CARs that were issued.

Next DOE addressed the status of the MPC. With respect to the activities performed by the MPC contractor, the MPC will be a Part 71 and Part 72 certified design; Part 60 considerations are not the responsibility of the MPC contractor and will be included in the MPC design procurement specifications, by DOE, as they are identified. DOE noted that before using MPCs for permanent disposal, all pertinent Part 60 requirements must be met in the design and fabrication. Attachment 11 gives information on the contract awarded in April 1995 and planned near-term activities in this area.

DOE then discussed actions to be undertaken to determine the extent of technical report problems as exemplified in corrective action requests

regarding the QA programs of the two participants. There will be more OCRWM audits in FY 96 that focus on the performance based approach, use a technical specialist and emphasize adequacy of technical reports. (Attachment 12)

Finally, NRC discussed its vertical slice approach, explaining that the purpose of the vertical slice is to focus NRC reviews on DOE work that is most important to site characterization and potential licensing. It is not intended for the approach to be intrusive to DOE. The interaction plans will include Appendix 7 visits and public meetings.

After agreeing that the next QA meeting would be on November 1, 1995, the meeting was adjourned at 2:10 p.m., EDT.

  
\_\_\_\_\_  
Pauline P. Brooks  
High-Level Waste and Uranium  
Recovery Branch  
Division of Waste Management  
Office of Nuclear Material Safety  
and Safeguards

  
\_\_\_\_\_  
Frederick C. Rodgers  
Regulatory Integration  
Division  
Office of Civilian Radioactive  
Waste Management  
U.S. Department of Energy

## ATTENDEES

### DOE/NRC PERIODIC MEETING ON QUALITY ASSURANCE VIDEOCONFERENCE July 11, 1995

Suite 7200, 490 L'Enfant Plaza, Washington, DC

<u>NAME</u>	<u>ORGANIZATION</u>	<u>PHONE NUMBER</u>
Jack Spraul	NRC	301-415-6715
John Buckley	NRC	301-415-6607
John O. Thoma	NRC	301-415-7293
Mario R. Diaz	DOE	702-794-7974
Lester W. Wagner	QATSS/SAIC	202-488-5420
Dennis Threatt	QATSS/SAIC	202-488-5446
Pauline Brooks	NRC	301-415-6604
Rey Johnson	Weston	202-646-6698
Fred Rodgers	DOE	202-586-9313
Marc Meyer	QATSS/CER	202-415-7286
Bob Clark	DOE	202-586-1238
L. J. Hopkins	NCAI	202-466-7767

Room 663, 101 Convention Center Drive, Las Vegas, Nevada

Catherine Hampton	DOE	702-794-7973
Donald G. Horton	DOE/OQA	702-794-7675
Jim Schmit	YMQAD/QATSS	
Susan Zimmerman	State of Nevada	702-687-3744
Bill Belke	NRC	702-388-6125
E. v. Tiesenhausen	Clark County	
Sandra Bates	YMQAD/QATSS	
D. M. Franks	M&O QA	
Tim Haws	DOE AMSL	
John Therien	YMQAD/QATSS	702-794-7862
R. F. Powe	QATSS	702-794-7749
R. L. Rixford	M&O S&L	
Albert C. Williams	DOE YMQAD	702-794-7581
Hank Greene	QATSS	
Sam Horton	QATSS	702-794-7176
Charlie Warren	YMQAD/QATSS	702-794-7248
MacKaye Smith	DOE AMSP	
Chad Glenn	NRC	702-388-6125
Rick Weeks	YMQAD/QATSS	702-794-7853
Robert B. Constable	YMQAD	702-794-7945
Richard E. Spence	DOE/YMQAD	702-794-7504

AGENDA  
NRC/DOE VIDEOCONFERENCE ON QUALITY ASSURANCE  
JULY 11, 1995

Introductory Remarks	ALL
QA Open Items	NRC 3
Update on Observation of Recent DOE Audits	NRC/NV/LG 4
Status of DOE/Nye County Cooperative Drilling Program	DOE/LG 5
Status of DOE FY 95 and 96 Audit/Surveillance Schedule	DOE 6
Update on QA Overview of Site Characterization Field Activities	DOE 7
Status of Implementing the Revised QARD	DOE 8
Review of Revised QARD	NRC
In-Field Verification of Yucca Mountain Site Activities	NRC 9
Status of Letter on Changing the QA Verification Function to DOE	DOE
Status of Scheduled July 31, 1995 "Flow-down" Letter	DOE
Status of M&O's ESF Design Package and Related CARs	DOE 10
Update on MPC Status	DOE 11
Extent of USGS Report Problems	DOE 12
NRC Vertical Slice Status	NRC
Items of Concern to the State of Nevada and Affected Local Governments	NV, LG
Closing Remarks	All
Adjournment	

Attachment Numbers in Last Column

Attachment 2

**OPEN ITEMS**

<b>ITEM</b>	<b>DESCRIPTION</b>	<b>RECOMMENDATION FOR CLOSURE/REMARKS</b>	<b>STATUS</b>
1-95	Test cases used to "validate" software programs were those supplied by the software developer. Thus, "validation" was primarily an installation test that showed that the computer software functioned the same on the user's computer hardware as it did on the developer's hardware. (See OA Report 94-07 dated 12/19/94.)	The NRC staff recommends that acquired computer software (not developed under an Appendix B QA program) be "validated" by more than rerunning the developer's test cases.	Open
2-95	LLNL procedure TIP-YM-12, "Electronic Record Keeping," indicates that electronic records can be used instead of hard copy records generated in scientific notebooks. An NRC "Audit Observer Inquiry" questioned whether the controls in the procedure were specific enough and whether activities in accordance with the procedure could be audited. (See OA Report 94-12 dated 01/27/95.)	There was a commitment by LLNL management to respond, through the DOE, with an expanded response to the inquiry. Expanded response discussed at last LLNL audit. Awaiting formal response from DOE.	<u>Closed</u> by letter dated May 24, 1995. Ref: DOE letter dated May 2, 1995

HEADQUARTERS QA DIVISION AUDIT HQ-ARC-95-04 OF THE OCRWM MANAGEMENT AND OPERATING CONTRACTOR

**INTRODUCTION** - During February, 1995, members of the U.S. Nuclear Regulatory Commission Division of Waste Management quality assurance (QA) staff observed a U.S. Department of Energy (DOE), Office of Civilian Radioactive Waste Management (OCRWM), Office of Quality Assurance, audit of the quality assurance (QA) program of the Civilian Radioactive Waste Management System Management and Operating Contractor (M&O). The audit, HQ-ARC-95-04, was conducted from February 7-10, 1995 at the M&O offices in Vienna, Virginia, and from February 21-24, 1995 at the M&O offices in Las Vegas, Nevada. The audit evaluated portions of the M&O QA program compliance with applicable requirements of OCRWM's "Quality Assurance Requirements and Description" document (QARD - DOE/RW-0333P). This audit, in conjunction with audit HQ-94-02 and other DOE audits and surveillances, completed DOE's "Baseline Audit" of the M&O in meeting the applicable requirements of the QARD. There were no other observers at this audit.

This report addresses the effectiveness of the DOE audit and the adequacy of implementation of QA controls in the audited areas of the M&O QA program. Previous corrective action requests (CARs) from earlier baseline audits, identified by the audit team as open issues, were also evaluated. NRC staff observations at Vienna and Las Vegas are presented separately in this report. NRC staff conclusions are presented for the audit overall.

**OBJECTIVES** - The objectives of this audit by DOE were to determine whether the M&O QA program and its implementation meet the applicable requirements and commitments of the QARD and M&O procedures.

The NRC staff's objective was to gain confidence that DOE and its M&O are properly implementing the requirements of their QA programs in accordance with the OCRWM QARD and Title 10 of the Code of Federal Regulations (10 CFR), Part 60, Subpart G (which references 10 CFR Part 50, Appendix B).

**MANAGEMENT SUMMARY AND CONCLUSIONS** - The NRC staff based its evaluation of the audit process and the M&O QA program on direct observations of the audit team members; discussions with audit team and M&O personnel; and reviews of the audit plan, audit checklists, and pertinent M&O documents. The NRC staff has determined that DOE Audit HQ-ARC-95-04 was useful and effective. The audit was organized and conducted in a thorough and professional manner. Audit team members were independent of the activities they audited. The audit team was well qualified in the QA discipline, and its assignments and checklist items were adequately described in the audit plan.

The NRC staff agrees with the preliminary audit team finding that, overall, implementation of the M&O QA program will not be considered fully effective until the open issues, described below, and the CARs identified during this audit are satisfactorily resolved. Within the scope of this audit, the M&O QA program implementation is considered effective. However, earlier audits and surveillances identified the open issues where resolution of previous CARs is required.

DOE should continue to closely monitor implementation of the M&O QA program to ensure that the open issues are resolved in a timely manner, that the

deficiencies identified during this audit are corrected in a timely manner, and that future QA program implementation is effective. The NRC staff expects to participate in this monitoring as observers and may perform its own independent audits at a later date to assess M&O implementation of its QA program.

**NRC Staff Findings** - The NRC staff agrees with the preliminary DOE audit team finding that within the scope of the audit, implementation of the M&O QA program is generally satisfactory, However, before the M&O QA program can be assessed to be fully satisfactory, the CARs and five open issues identified in Section 5.10 must be acceptably resolved.

The NRC staff did not identify any Observations relating to deficiencies in either the audit process or the M&O QA program.

At both Vienna and Las Vegas, the ATL took special effort to emphasize that this audit was one of compliance with the QARD and implementing documents as opposed to a programmatic audit.

**Audit Team Findings** - The following two preliminary CARs were discussed at the post-audit meeting.

- Revisions to the MPC and OST/OSS design procurement specifications were not marked "Preliminary Draft" as required by QAP-3-8.
- The records process for specifications, drawings, and engineering analyses was found to be deficient in the areas of accuracy, completeness, protection, submission to records center, and indexing for retrievability.

Ten deficiencies, found by the audit team and requiring only remedial action, were acceptably resolved by the M&O organization prior to the post-audit meeting in Las Vegas. In addition, the audit team presented twelve recommendations for consideration by the M&O.

At the completion of this audit, the audit team concluded that 1) M&O QA Program implementation is satisfactory with the exception of the above CARs and the five open issues listed below and 2) that the QA Program should not be considered completely effective by DOE until these are acceptably resolved.

#### OPEN ISSUES

1. Re-evaluation of work activities
2. Effective preparation of design control procedures
3. Effective implementation of the design control procedures
  - Overall tracking process of items to be verified or to be determined
  - Checking/review process
  - Control of design input data transmittals
4. Effective implementation of the corrective action process
5. Effective control of the QA records process

# NYE COUNTY COOPERATIVE DRILLING

- 
- DOE provided Nye County permission to drill borehole U-25 ONC#1 and to conduct tests in previously drilled borehole USW-NRG-4
  - Test Planning Package 95-03, Rev. 0 issued in 12/94 provides test to test interference and waste isolation evaluations
  - On 3/17/95 Nye County began data gathering in USW-NRG-4 and 4/17/95 Nye County began data gathering in U-25 ONC#1 for independent field investigations

# CHANGES TO REVISION 3 OCRWM FY-95 AUDIT SCHEDULE

AUDIT NO.	ORG.	LOCATION	DATES	SUBJECT	COMMENTS
YM-ARP-95-008	SNL	Albuquerque, NM	7/17-21/95	Activities to support systematic drilling program WBS 1.2.3.2.2.2.1	Combined with YM-ARP-95-010 at SNL 8/21-25/95
TDB	LANL	Los Alamos, NM	8/14-18/95	Caisson Experiment WBS 1.2.5.4.6	Audit cancelled. Activity not under QARD requirements.
HQ-ARP-95-010	ORNL EIA M&O	VA, TN, MD	8/14-18/95	Process to prepare, maintain, and validate characteristics database WBS 9.2.01.01.06.07	Audit cancelled. Lack of activity.
TBD	Kiewit/PB	Las Vegas, NV	8/7-11/95	Compliance to DOE/RW-0333P	Moved to FY-96 Audit Schedule.
YM-ARP-95-021	USGS/ Geomatrix	San Francisco, CA	9/18-22/95	Location and recency of faulting near prospective surface facilities WBS 1.2.3.2.8.4.2	Added to FY-95 Audit Schedule.

# STATUS OF FY-95 SURVEILLANCES

## (Planned or in Progress)

SURV. NO.	ORG.	LOC.	ACTIVITY	STATUS
95-035	SNL	YMS	Strain Gauge Installation	In Progress
95-038	REECo/ KIEWIT/PB	LV & YMS	Preparation for transition	Planned to be performed 7/17-21/95
95-040	M&O	YMS	Sample Management Facility procedural compliance	Planned to be performed 7/17-21/95



# **FIELD ACTIVITIES UPDATE**

**JULY 11, 1995**

# FIELD ACTIVITIES UPDATE



**⑩ YMQAD staff completed surveillances of the following activities:**

- **Water usage in the ESF**
- **Job Package records submittals**
- **Sample handling during mapping**
- **Borehole security program**
- **TFM controls**
- **C-Well complex activities**
- **TBM Advancement Plan**

# FIELD ACTIVITIES UPDATE



⑩ YMQAD staff completed surveillances of the following Affected Organizations:

- Kiewit/Parsons Brinkerhof
- M&O
- USGS/USBR
- YMSCO

# FIELD ACTIVITIES UPDATE



**One significant CAR (YM-95-044)  
was issued to Kiewit/PB since  
April 12, 1995**

# FIELD ACTIVITIES UPDATE



**REVIEWS COMPLETED SINCE 4/12/95  
NRC PRESENTATION**

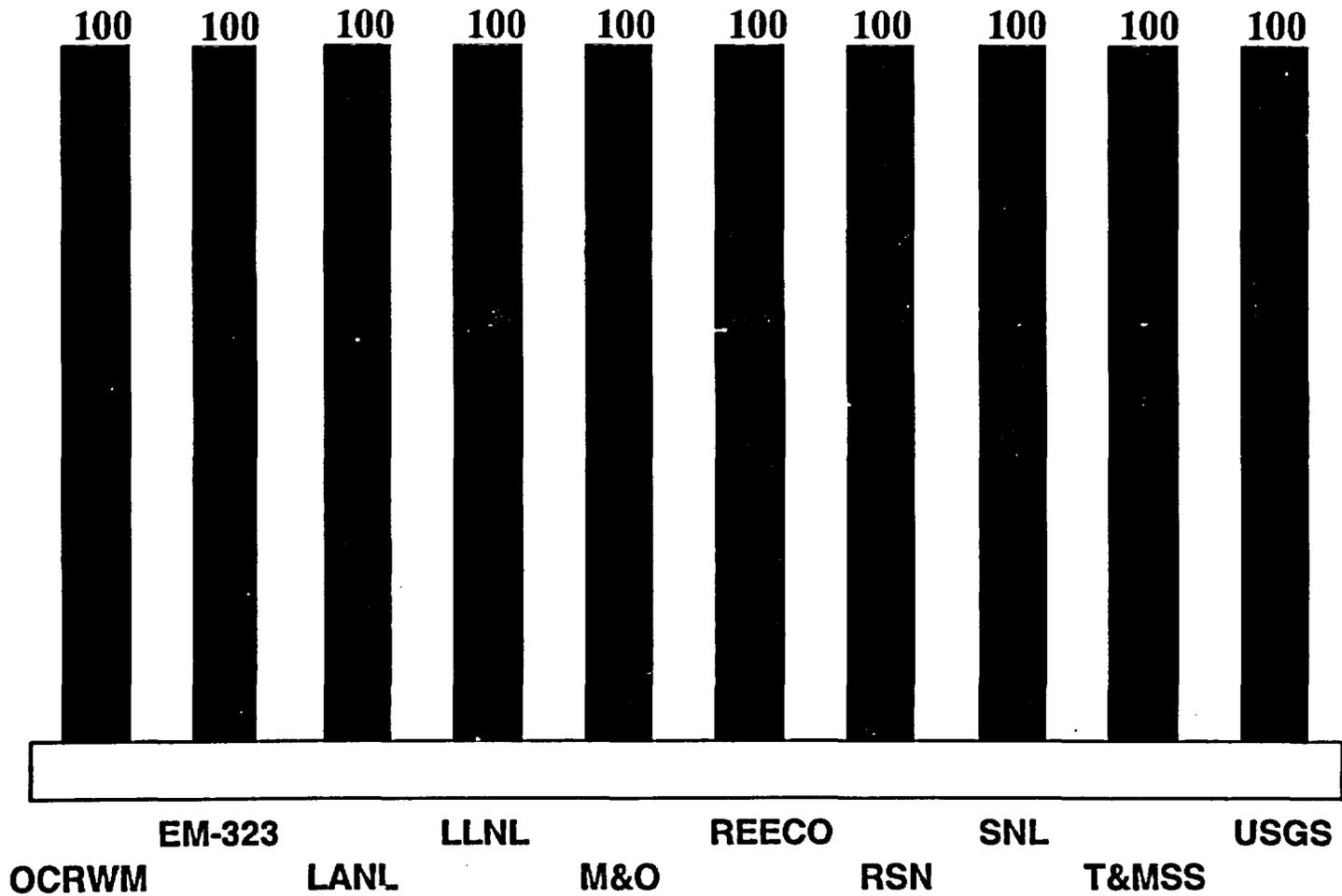
## **Test Planning Packages:**

- **6 Test Plannings**
- **8 Job Packages**

# QA Program Completion

---

## Requirements Matrix Review Completion



# QARD REVISION 1



## SCOPE OF REVISION

⑩Section 1.0, “Organization.”

## PURPOSE OF REVISION

⑩Incorporate OCRWM Reorganization

## TIMING OF REVISION

⑩Effective July 21, 1994

# QARD REVISION 3



## SCOPE OF REVISION

- APPENDIX B - Storage and Transportation

## PURPOSE OF REVISION

- Include storage casks and MPCs
- Clarify that cask/MGDS interface is outside the scope of Appendix B

## TIMING OF REVISION

- Effective Mid-July, 1995

# QARD REVISION 4



## SCOPE OF REVISION

- 15 Sections
- 3 Supplements
- 1 New Supplement (Electronic Management of Data)
- 2 Appendices

## QARD COMMENTS

- Informal Comments
  - Approx. 250
  - Incorporated Approx. 150
- Formal Comments
  - Approx. 500
  - Incorporated Approx. 300

## DEPTH OF REVISION

- Most comments are for clarification
- Possibly 4 commitment reductions

# QARD REVISION 4



## TIMING OF REVISION

- Formal Review - Completed Mid - May, 1995
- Prepare Comment Responses - July, 1995
- Resolve Comments - August, 1995
- Prepare Draft - August, 1995
- Issue Revision - September, 1995

## NRC IN-FIELD VERIFICATION OF THE DOE OCRWM AND ITS M&O

**INTRODUCTION** - During April 3-6, 1995, members of the U.S. Nuclear Regulatory Commission Division of Waste Management staff conducted an in-field verification of the U.S Department of Energy (DOE), Office of Civilian Radioactive Waste Management and the DOE Management and Operating Contractor (M&O). The verification was conducted at the DOE and M&O offices in Las Vegas, Nevada and at Yucca Mountain, Nevada. The in-field verification evaluated the DOE/M&O compliance with commitments made in the DOE letter of November 14, 1994, to the NRC (Dreyfus to Bernero). This in-field verification, in conjunction with NRC staff observation of the operation of the tunnel boring machine and DOE audits YM-ARP-95-02 and HQ-ARC-95-04, completes Phase 2 of the NRC staff's effort to determine the acceptability of the information provided and the acceptability of implementation of DOE/M&O commitments made in DOE's November 14, 1994 letter.

The State of Nevada observed this in-field verification.

This is the report of the in-field verification. This report addresses the adequacy of implementation of DOE/M&O controls in the areas verified. NRC staff observations and conclusions are presented in this report.

**OBJECTIVE** - The objective of this in-field verification was to determine, in conjunction with NRC staff observation of the operation of the tunnel boring machine and of DOE audits YM-ARP-95-02 and HQ-ARC-95-04, the acceptability of implementation of DOE/M&O commitments made in DOE's November 14, 1994, letter.

**MANAGEMENT SUMMARY AND CONCLUSIONS** - The in-field verification team based its evaluation on discussions with DOE and M&O personnel and review of the Exploratory Studies Facility (ESF) design and pertinent DOE and M&O documents. There were effectively three recommendations resulting from the in-field verification. These were 1) that numerical modeling of rock bolts be expanded to include all pertinent types and applications, 2) that AP-6.14, currently being revised, be clarified regarding reportable conditions, and 3) that DOE/M&O re-evaluate the quality classification of pre-cast concrete inverts. Two other recommendations were acceptably resolved during the verification.

The verification team commended DOE/M&O for initiating a "Design Guidelines" document that appears to be a good addition to the M&O design system. The NRC team finds that, within the scope of the in-field verification, DOE/M&O compliance with commitments is satisfactory. Open Items in the NRC letter of October 13, 1994, to DOE - Bernero to Dreyfus - have been reduced in scope based on the results of this in-field verification. The team's three recommendations will be followed-up as part of the Phase 3 activities described in the NRC letter of March 9, 1995, to DOE - Bernero to Dreyfus.

**SUMMARY OF NRC FINDINGS** - At the end of the in-field verification, the NRC team concluded that, within the scope of the verification, DOE/M&O compliance with the commitments made in the DOE letter of November 14, 1994, to the NRC (Dreyfus to Bernero) is generally satisfactory.



# MPC STATUS

- 
- **Contract Awarded: April, 1995**
  - **Contract Awarded to: Westinghouse/GESCO (WGESCO)**
  - **Team Members:**
    - **Packaging Technology (PACTEC)**
    - **Scientific Ecology Group (SEG)**
    - **Chem Nuclear (CNSI)**
    - **Westinghouse Energy Systems Business Unit (ESBU)**
    - **Westinghouse Marine Division**

# MPC STATUS



## ■ OOA Planned Activities:

- Observe WGESCO Audit of PACTEC week of 7/24/95
- Audit SEG week of 8/14

# EXTENT OF TECHNICAL REPORT PROBLEMS



**OCRWM Corrective Action Request YM-95-045  
issued to USGS**

- **Extent of deficiencies to be investigated and appropriate corrective actions taken**
- **Evaluation and verification of investigative and corrective actions to be performed by OQA**

# EXTENT OF TECHNICAL REPORT PROBLEMS



(continued)

**OCRWM Corrective Action Request YM-95-015  
issued to SNL**

- **Investigation of extent of deficiency performed and corrective actions completed**
- **Verification by OQA in Progress**

# PERFORMANCE BASED VERIFICATION



## **Increased number of OCRWM Audits Planned in FY96**

- **Focus on the performance based approach**
- **Utilize technical specialist**
- **Emphasis on adequacy of products (technical reports)**

**Audits to be supplemented with OCRWM  
Surveillances of Technical Activities**

# QARD REVISION 2



## SCOPE OF REVISION

⑩ Section 7.0, “Control of Purchased Items and Services.”

## PURPOSE OF REVISION

⑩ To accomodate the transfer of audit responsibility to the OCRWM Office of Quality Assurance.

## TIMING OF REVISION

⑩ Effective March 27, 1995