

MINUTES OF THE JANUARY 26, 1993, 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), to discuss items of mutual interest with regard to quality assurance (QA), was held at the NRC Headquarters in Rockville, MD on January 26, 1993. An attendance list is included as Attachment 1. The State of Nevada participated in the meeting via telephone conference. Clark County, NV was the only affected unit of local government in attendance.

At this meeting, DOE presented information on the following topics: (1) update on the status of implementation of new Quality Assurance Requirements and Description for the Civilian Radioactive Waste Management Program (QARD); (2) update on QA oversight of core drilling and other field activities; (3) update on FY93 audit schedule; (4) OCRWM QA Director's observations of recent audits; (5) update on DOE's evaluation of Nuclear Waste Management System Management and Operating Contractor (M&O) QA program implementation; and (6) clarification of the role of technical specialists on audits. The NRC staff presented observation summaries of recent DOE audits and surveillances.

The meeting began with introductory remarks followed by introduction of the attendees. Following the introductions, DOE presented an update on the status of implementation of the new QARD. DOE stated that all affected organizations are expected to submit Transition Plans to DOE's Office of Quality Assurance (OQA) by January 29, 1993. These Transition Plans will contain information on which QA documents have to be revised in order to meet the new QARD, and a schedule for completing the revisions. DOE stated that once the Transition Plans are received from each affected organization, and reviewed by OQA, DOE will be able to provide an implementation schedule to the NRC. The NRC and State of Nevada requested, and DOE agreed to provide, information copies of the Transition Plans for OCRWM, M&O, and U.S. Geological Survey (USGS). It was also noted during this discussion that Revision 3 of the M&O QAPD was transmitted to the NRC for review. Although the M&O QARD will be superseded in the near future by the new QARD, the NRC will review Revision 3 and provide a formal written response. DOE indicated that the M&O is proceeding with the procurement of spent fuel transportation cask under Revision 3 of its QAPD.

Next, the DOE provided an update on the oversight of core drilling and other field activities. DOE showed a short video presentation which summarized the activities taking place at the site. Following the video presentation, DOE presented a detailed field activities update (Attachment 2). This presentation included information on the following topics: (1) completed boreholes to date; (2) in-progress boreholes; (3) status of Job Packages and Test Planning Packages; (4) UE25 UZ#16 special drilling activities; (5) NRG/SRG boreholes; (6) surveillance of field activities; and (7) Corrective Action Requests (CAR) associated with field activities. The NRC requested that DOE provide a summary of the QA efforts of the affected

organizations working on field activities, at the next meeting. DOE agreed to provide this information but thought it may be beneficial to have representatives of the affected organizations provide this information. DOE then provided an update on the FY93 audit schedule. DOE stated that a single audit is scheduled to be conducted at Pacific Northwest Laboratory (PNL) in FY93. The Headquarters overview of PNL was changed to a surveillance which will be conducted sometime in February. During this discussion, the NRC requested that DOE provide a list of the major and minor participants and suppliers. DOE agreed to provide such a list.

Next on the agenda was NRC's update on observation of recent DOE audits and surveillances. The NRC presented summaries of the following audits: (1) West Valley (92EA-WV-AU-001); (2) Lawrence Livermore National Laboratory (YMP-92-21); (3) Sandia National Laboratory (YMP-92-22); (4) Oak Ridge National Laboratory (HQ-SR-92-10); (5) M&O (HQ-SR-92-12); (6) Savannah River (92EA-SR-AU-04); (7) YMPO (YMP-92-24); (8) USGS (YMP-93-01); (9) Los Alamos National Laboratory (YMP-93-02); and (10) OCRWM (HQ-93-01). The summaries presented are excerpts from publicly available NRC reports (Attachment 3). During the discussion of the USGS audit, the NRC stated it is waiting for a response to weakness 5.10 (b) of NRC Observation Audit Report 93-01. This will remain as Open Item 1-93 until a response is received by the NRC (Attachment 4). The NRC requested that copies of the DOE Vitrification Projects Division (EM-343) audits of West Valley and Savannah River be transmitted to the NRC for information purposes. The DOE agreed to send these reports to the NRC and the State of Nevada.

The OCRWM QA Director then presented his observations of recent audits. The NRC requested that DOE transmit the Director's observation reports to the NRC for information. DOE stated that the Director's reports are internal reports and, therefore, do not have to be transmitted to the NRC. The NRC agreed but noted that making the Director's report available to the public would show that DOE upper management is taking an active role in solving QA related problems.

Next, DOE provided a summary of DOE's evaluation of the M&O's QA program implementation (Attachment 5). DOE has observed six M&O audits and three M&O surveillances during the past year. To date, none of the criteria examined have been found to be ineffective. A summary report of these audits/surveillances is in preparation and will be sent to the NRC.

DOE's last formal presentation was an update on efforts to clarify the role of technical specialists on audits (Attachment 6). The role of technical specialists is more clearly defined in Section 18 of the new QARD. Implementing procedures will be required to address technical specialists' qualifications and training. In addition, implementing procedures will address the scope of technical audits, criteria for technical evaluations, and reporting requirements.

A new topic for discussion was then raised by the DOE. In past discussions with the DOE, the NRC staff asked that the Audit Team Leaders provide feedback to the NRC Observers with regard to conduct of the audit. DOE stated that in

some cases the OCRWM QA Director may transmit comments verbally following the audit.

The NRC then requested that DOE revise the format of the CAR tracking information transmitted monthly to the NRC. Currently, DOE is providing the NRC a copy of DOE's Corrective Action Status report. The NRC staff would prefer to receive the data set used to compile the report rather than the report itself. DOE agreed to provide this information.

The State of Nevada and affected units of local government were then invited to present comments, ask questions, or raise any items of concern. The State requested, and DOE provided, clarification of the definition of "Suppliers". In addition, the State requested that future QA Meetings be held on Wednesdays or Thursdays rather than Tuesdays. It was agreed that every effort will be made to accommodate the State's request. The affected units of local government had no comments.

There were no closing remarks.

The meeting was adjourned after tentatively setting Thursday, April 15, 1993 as the next NRC/DOE QA meeting date.

John T. Buckley 3/5/93
 John T. Buckley
 Repository Licensing and Quality
 Assurance Project Directorate
 Division of High-Level Waste Management
 U. S. Nuclear Regulatory Commission

Sharon L. Skuchko 3/5/93
 Sharon L. Skuchko
 Regulatory Integration Branch
 Office of Civilian Radioactive
 Waste Management
 U. S. Department of Energy

JANUARY 26, 1993 NRC/DOE QA Meeting

ORGANIZATION/NAME	PHONE NUMBER
<u>NRC</u>	
John Buckley	301-504-2513
Bill Belke	301-504-2445
Ken Hooks	301-504-2447
Jack Spraul	301-504-2446
Pauline Brooks	301-504-3465
Ken Kalman	301-504-2428
Steve O'Connor	301-504-2460
<u>DOE</u>	
Donald Horton	202-586-7220
Bob Clark	202-586-1238
Sharon Skuchko	202-586-4590
Richard Spence	702-794-7504
John Therien	702-794-7862
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Jerry Heaney	702-794-7826
<u>WESTON</u>	
Wayne Booth	202-646-6750
Robert Howard	202-646-6663
<u>STS</u>	
Loyd Zerr	301-652-2500
<u>M&O</u>	
R.J. Brackett	703-204-8760
<u>SENATOR REID'S OFFICE</u>	
Chuck Casto	202-224-3542
<u>EEI</u>	
Tom Colandrea	619-487-7510
<u>USGS</u>	
Gene Roseboom	703-648-4422
<u>CLARK COUNTY, NV</u>	
Dennis Bechtel	702-455-5175
<u>CER</u>	
Hank Greene	703-276-9300

FIELD ACTIVITIES UPDATE

Completed Boreholes to Date

- ▶ **Total footage drilled to date (completed holes) - 4405 Feet**
- ▶ **Neutron - 22 - 2956.9 Feet (N11, N15, N16, N17, N27, N31, N32, N33, N34, N35, N36, N37, N38, N53, N54, N55, N57, N58, N59, N61, N63, AND N64)**
- ▶ **JF - 3 - 12 98 Feet**
- ▶ **NRG - 1 - 150.1 Feet**

FIELD ACTIVITIES UPDATE

(continued)

In-Progress Boreholes

- ▶ **UE25 UZ#16 - 1239.0 Ft. - as of January 14, 1993**
- ▶ **UE25 NRG - 2 - 70.3 Ft. - as of January 14, 1993**
- ▶ **USW NRG - 6 - 311.7 Ft. - as of January 14, 1993**

FIELD ACTIVITIES UPDATE

(continued)

Job Packages Status

- ▶ **Issued - 19**
- ▶ **Being processed for issuance - 10**

Test Planning Packages

- ▶ **Issued - 10**
- ▶ **Being processed for issuance - 9**

FIELD ACTIVITIES UPDATE

(continued)

UE25 UZ#16 Special drilling activities

- ▶ **12/14/92 - Downhole drilling assembly twists-off: fishing activities begin**
- ▶ **Nine - 8 hour shifts required to remove fish from hole**
- ▶ **1/11/93 - Regular drilling activities resume**
- ▶ **Note: The period of time 12/14/92 to 1/11/93 includes downtime for Christmas holidays**

FIELD ACTIVITIES UPDATE

(continued)

NRG/SRG Boreholes

- ▶ **Purpose:** North Ramp Geologic (NRG) and South Ramp Geologic (SRG) holes are being drilled to characterize soil and rock conditions that will influence or be influenced by construction of the ESF

- ▶ **6 NRG holes are proposed**

All NRG holes to extend 20 feet below planned invert elevation of ramp

NRG 2 and 3 to be angle drilled (approximately 30 degrees from vertical)

- ▶ **5 SRG holes are proposed**

Four holes will be angle drilled (approximately 30 degrees from vertical)

- ▶ **Boreholes will be at least 30 feet from alignment of proposed ramp**

FIELD ACTIVITIES UPDATE

(continued)

SURVEILLANCES OF FIELD ACTIVITIES

- ▶ **Eight surveillance Reports Issued or in-preparation (93-002, 93-003, 93-005, 93-008, 93-009, 93-012, and 93-013, 93-015)**

- ▶ **Organizatons Surveilled:**

Raytheon Service Nevada (RSN)

United States Bureau Of Reclamation (USBR)

United States Geological Survey (USGS)

Yucca Mountain Project Office (YMPO)

FIELD ACTIVITIES UPDATE

(continued)

Surveillances of Field Activities - continued

▶ Activity/Organization Surveilled:

93-002	Tracer Gas Injection	USGS
93-003	Drill Hole Activities	YMPO/RSN
93-005	Geophysical Logging Activities NRG-1	USBR
93-008	Geologic Mapping	USGS
93-009	Sample Handling	YMPO
93-012	Field Verification Activities	RSN
93-013	Field Document Control	YMPO
93-015	Control of Borehole Samples	YMPO

FIELD ACTIVITIES UPDATE

(continued)

Corrective Action Requests

Seven CARs Generated: (significant*)

Open CARs:

- YM-92-035 Relocation of borehole without test interference or impact check
- YM-93-011 Remediation program does not address all requirements
- YM-93-016 FCR evaluation not performed
- YM-93-025 Calibration status stickers missing
- YM-93-026 Lack of monitoring of tracer gas exiting borehole
- *YM-93-027 TFM Plan not implemented

Closed CARs:

- Ym-92-033 Records not traceable to Job Package or Study Plan
- YM-92-034 Test pits backfilled prior to inspection or survey
- YM-92-038 Revision of Job Package not revised according to procedure
- YM-92-039 Personnel not trained to AP 3.5Q (Field Change Control Process) as required
- YM-92-040 Sample collection procedure not approved prior to drilling UZ-16
- YM-92-055 Lack of procedure for drawing and specification acceptance by DOE
- YM-92-059 Unqualified data entered into technical data base as qualified
- YM-92-061 Surface-based testing requirements document lacks criteria for drilling
- YM-92-069 Use of incorrect personnel

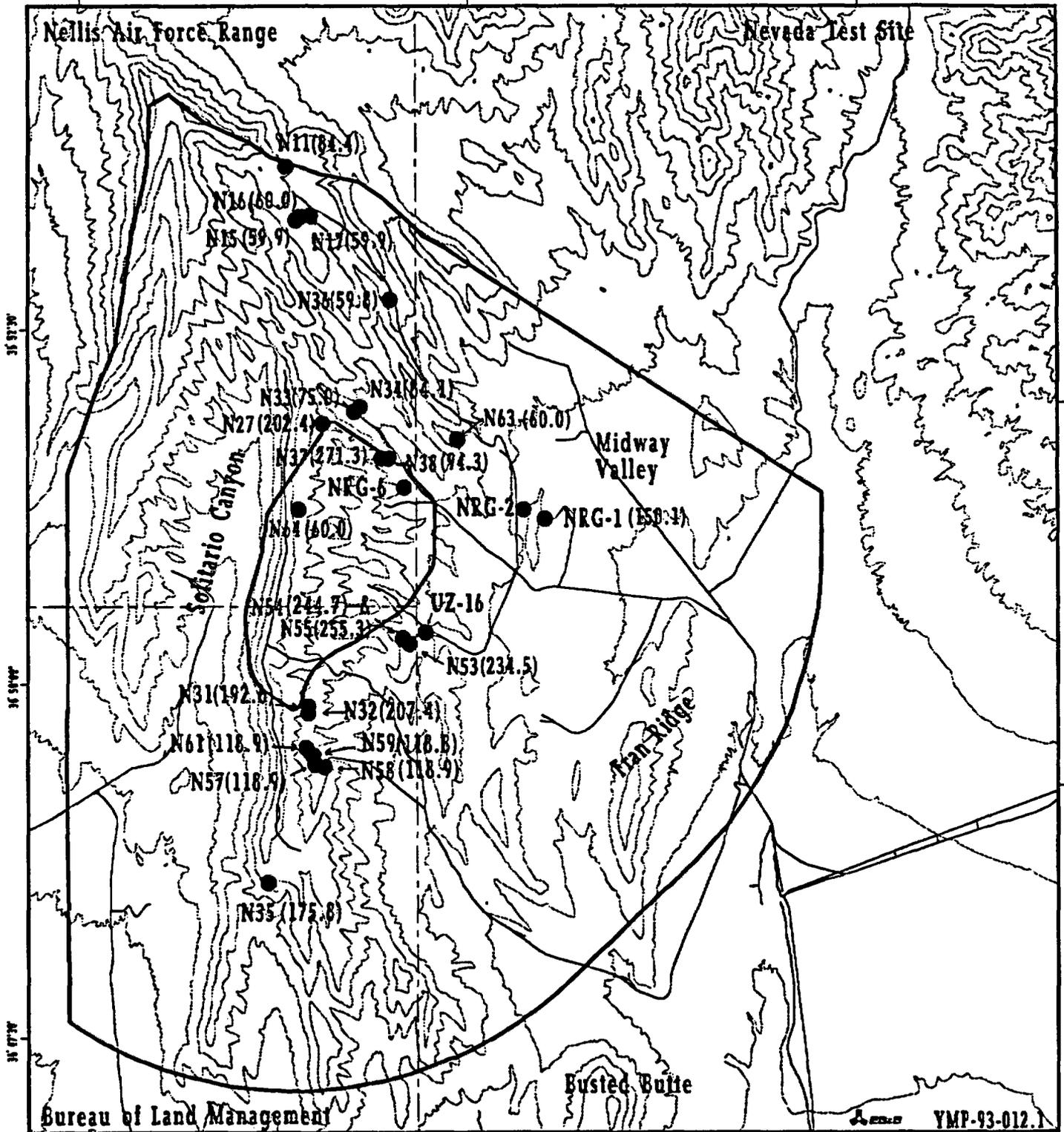
ES30245ft
ES45000m

ES46440ft
ES50900m

ES43075ft
ES53000m

Nellis Air Force Range

Nevada Test Site

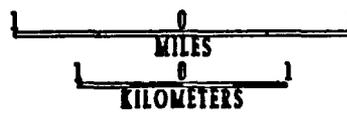


Bureau of Land Management

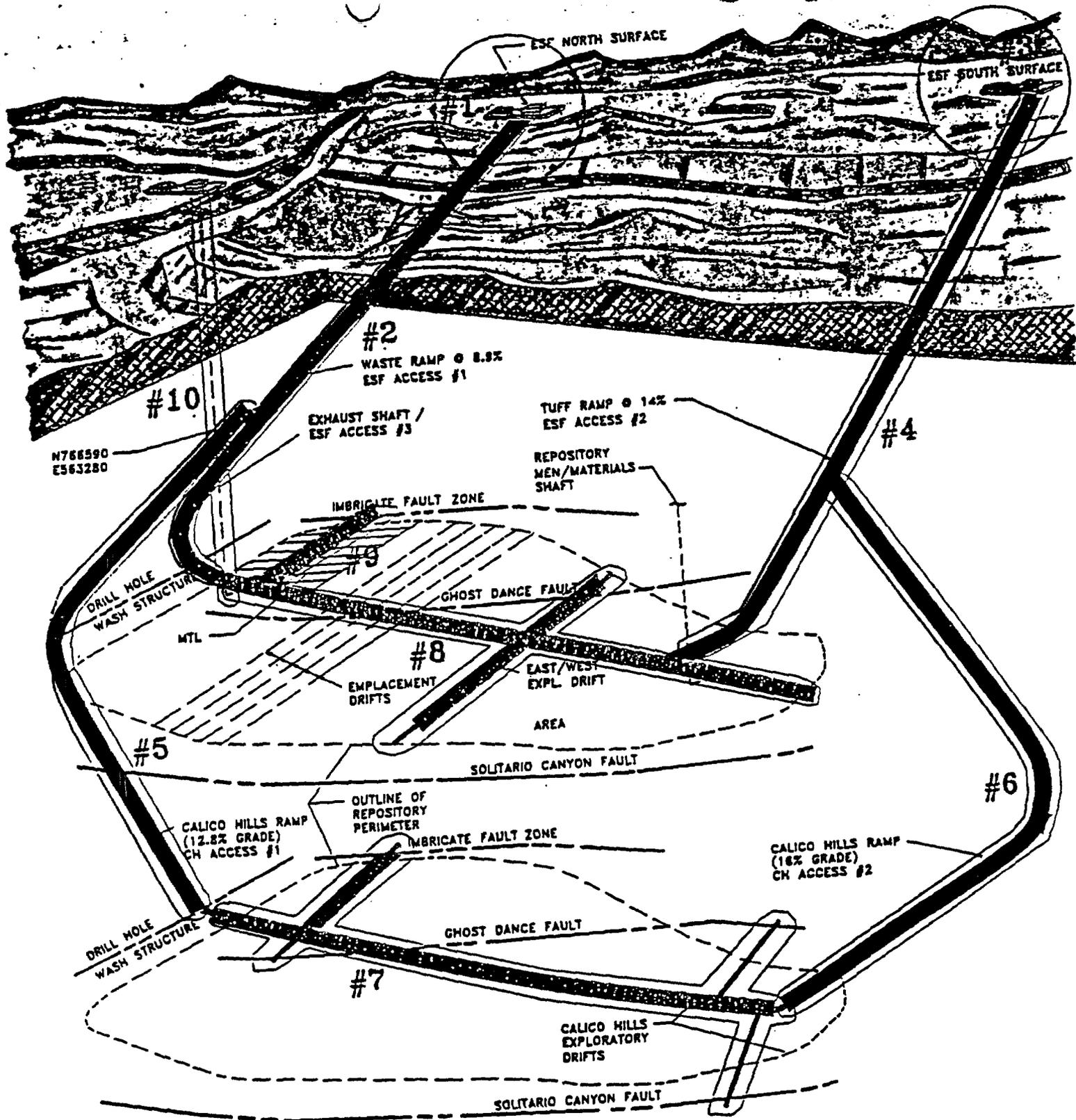
YMP-93-012.1

Legend

- Completed Borehole
- In Progress Borehole



**YUCCA MOUNTAIN
SITE CHARACTERIZATION PROJECT
Borehole Summary**



NOTE: THIS IS PICTORIAL ONLY AND
NOT DRAWN TO SCALE

NOTE: DESIGN, CONSTRUCTION, AND TESTING
PHASES SHOWN #2

Exploratory Studies Facility

DOE-NRC QA MEETING, JANUARY 26, 1993

SUMMARY OF NRC OBSERVATION COMMENTS

92EA-WV-AU-001 WVDP (July 27-31, 1992 / Belke)

The audit was generally effective in evaluating the adequacy and effectiveness of implementation of the WV Project Office (PO) and WV Nuclear Services (NS) QA programs. The audit was effective in identifying a number of deficiencies in program implementation. Audit checklists were comprehensive, but their content did not clearly indicate whether the implementing procedures were being checked for adequacy or for compliance as the checklists seemed to indicate. The staff generally agrees with the audit team finding that QA program implementation was marginally effective.

It is questionable whether the WVPO system of audits and surveillances is as effective as it should be. It appeared to the staff that the WVPO checklist questions did not go into sufficient detail or the reports lacked the in-depth information of what was actually audited or surveilled. The WVPO audit/surveillance program should be more carefully monitored in the future to ensure it is effective.

It appeared that root cause determination and corrective action may not have been effective in the area of personnel indoctrination, qualification, and training.

The staff believes that the WVNS QA implementing procedure structure may be excessively complex and difficult to implement because of multiple groups of implementing documents. The staff recommends this area be closely looked at to consider a procedure consolidation effort which may facilitate ease of implementation.

The staff recommends that DOE audit teams not allow the audited organization to issue an internal corrective action for discrepancies found by the audit team. This occurred during this audit in the area of measuring and test equipment control, and it may lessen the effectiveness of corrective action in the areas of root cause determination, action to prevent recurrence, and verification of effective close-out.

The staff recommended that WVNS consider looking into the revised YMP QA grading effort from a "lessons learned" aspect to enhance the WVNS grading process.

The staff was extremely impressed with the WVDP trending effort and recommended that it be reviewed by OCRWM management for possible application to its high-level waste repository QA program.

YMP-92-21 LLNL (August 10-14, 1992 / Hooks, Kalman, Mabrito, Spraul)

The staff has determined that YMQAD QA Audit No. YMP-92-21 was useful and effective. The audit was well organized and conducted in a thorough and professional manner with minimal logistic delays. The audit team was well

qualified in the QA discipline, and its assignments and checklist items were adequately described in the audit plan.

It appears that LLNL-YMP will not classify its software efforts as quality-affecting and require the work to be in accordance with the SQAP until formal verification and validation. This may be an acceptable way to upgrade codes that have been under development for an extended period of time and are almost ready for final verification and validation, but quality-affecting codes that do not fit this category should be brought under the controls of the LLNL-YMP SQAP more expeditiously.

The Audit Team Leader (ATL) effectively used the auditors by reassigning one auditor to another programmatic element when it became apparent that only one auditor was needed to complete the work that had originally been assigned to two auditors.

The staff agrees with the preliminary audit team findings that the LLNL-YMP QA program has adequate procedural controls in place and implementation in the areas audited is satisfactory except for Programmatic Element 19 (Software QA), which was found to be indeterminate due to lack of quality-affecting work. None of the 13 CARs identified by the YMQAD audit team (8 were acceptably addressed during the audit) are significant in terms of the overall LLNL-YMP QA program.

YMP-92-22 SNL (August 24-28, 1992 / Hooks, Mabrito)

The staff has determined that YMQAD Audit No. YMP-92-22 was useful and effective. The audit was well organized and conducted in a thorough and professional manner with minimal logistic delays. The audit team was well qualified in the QA discipline, and its assignments and checklist items were adequately described in the audit plan.

The staff agrees with the preliminary YMQAD audit team findings that the SNL-YMP QA program has adequate procedural controls in place, and program implementation is generally adequate. None of three CARs issued is significant in terms of the overall QA program.

The audit team was well prepared, thorough, and displayed a detailed knowledge of the appropriate SNL-YMP procedures. The SNL-YMP staff demonstrated a good understanding of QA program responsibilities and a commitment to its requirements.

HQ-SR-92-10 ORNL (August 26 and September 1, 1992 / Buckley)

The staff has determined that the DOE/OCRWM surveillance of the ORNL QA program was useful and effective. The Surveillance Team Leader and technical specialists were very familiar with the ORNL QA procedures in the areas being surveilled. In addition, the technical specialists had a thorough knowledge of the work products which were examined and effectively used the prepared checklists in conducting their interviews.

The NRC staff agrees with the OCRWM surveillance teams preliminary conclusion that ORNL is adequately implementing the requirements of Computer Code Verification Plan for WSA, Version 2 and Peer Review Plan for Revision 1 of DOE/RW-0184 "Characteristics of Potential Repository Wastes" at this time. In addition, the NRC staff supports the surveillance team commitment to follow-up on the recommendations presented during the surveillance, prior to completion of the report on verification of the WSA code.

HQ-SR-92-12 M&O (September 9-10, 1992 / Spraul)

The staff determined that the surveillance was effective and agreed with the surveillance team that the closure packages were generally acceptable to document actions taken to close the hold points. Discrepancies found are not significant in terms of the overall M&O QA program, and they do not degrade the quality of M&O activities.

The staff believes that Revision 1 of the M&O's procedure QAP-2-6 "Readiness Reviews," has weakened the procedure in that it no longer requires that the "Attribute List" (that is, the list of prerequisites to be verified during a readiness review) be a QA record to be maintained in accordance with the M&O procedure for records management. We recommend that this requirement be reinstated.

The staff also recognizes a good practice in that the M&O staff preparing the closure packages documented actions beyond those specifically required for closure of the hold point. That is, several Open Item Reports required only a revised "Mined Geological Procedure" or a revised "Monitored Retrievable Storage Facility Procedure." In cases where the revised procedure had been superseded by an M&O QA procedure, the closure package includes not only the revised procedure but also the superseding M&O QA procedure and indicates where the hold point is covered in it. We believe that this extra effort and actions similar to it will pay dividends at the time of licensing.

92EA-SR-AU-04 SR/DWPD (September 14-18, 1992 / Gilray)

Overall, the audit team was well qualified and interacted effectively and professionally with the DOE and WSRC personnel. The audit team was divided into four sub-teams, and the logistics in managing these sub-teams and in identifying and tracking findings appeared acceptable.

The staff has determined that the audit was effective and fulfilled the required audit scope and objectives described in the audit plan. The staff agrees with the audit team findings that implementation of the DWPD and WSRC QA programs was acceptable with the exception of the programmatic element "Design Control."

YMP-92-24 YMPO (September 28-October 2, 1992 / Gilray, Mabrito)

The staff has determined that YMQAD QA Audit No. YMP-92-24 was useful and effective. The audit was well organized and conducted in a thorough and professional manner with minimal logistic delays. The audit team was well qualified in the QA discipline, and its assignments and checklist items were adequately described in the audit plan.

The staff agrees with the preliminary YMQAD audit team findings that overall the YMPO QA program has adequate procedural controls in place and that implementation in the areas audited is satisfactory. The audit team did, however, point out the need for the YMPO to improve the configuration management process because this area was found to be marginally acceptable.

The staff noted that this was a particularly important and timely audit in that it was an in-depth review of the YMPO configuration management process reflecting the increased activity related to site work, the ESF design effort, and the corresponding technical and quality related documents.

YMP-93-01 USGS (October 19-23, 1992 / Belke, Brient, Buckley, Kalman, Trapp)

The audit was well organized and conducted in a professional manner with minimal logistic delays. The audit team was well qualified in the QA and technical disciplines, and its assignments and checklist items were adequately described in the audit plan.

The staff has determined that the audit was effective, and agreed with the YMQAD audit team that implementation of the USGS QA program was satisfactory for the six QA program elements. The staff agreed with the audit team that QA program implementation in these three areas is effective. Deficiencies identified are not significant in terms of the overall USGS QA program and did not affect the quality of any USGS site characterization activities.

Audit technical evaluations and criteria for conducting those evaluations are not prescribed by documented instructions or procedures and may not totally meet the intent of 10 CFR Part 50, Appendix B, Criterion 5. Technical evaluation criteria had previously been identified in audit plans.

Prospective technical specialists should participate on their first audit either observing or under the supervision of an experienced technical auditor i.e., similar to the "auditor-in-training" concept currently in effect for QA programmatic auditors.

U.S. Bureau of Reclamation personnel have a positive attitude on the subject of QA and are striving to assure it is properly implemented. USGS personnel appear to recognize the importance of QA and are also working to assure proper implementation of the USGS QA program.

YMP-93-02 LANL (November 2-5, 1992 / Brient, Brooks, Spraul)

The staff has determined that YMQAD QA Audit No. YMP-93-02 was useful and effective. The audit was well organized and conducted in a thorough and professional manner with minimal logistic delays. The audit team was well qualified in the QA discipline, and its assignments and checklist items were adequately described in the audit plan.

The staff agrees with the preliminary YMQAD audit team findings that the LANL-YMP QA program has adequate procedural controls in place and that QA program implementation in the areas audited is generally adequate. None of the three CARs identified by the YMQAD audit team are significant in terms of the overall LANL-YMP QA program.

The staff noted that the technical checklists did not address the area of existing data qualification. Further investigation showed that LANL-YMP intends to use the YMPO procedure if it gets involved in this area. Since the audit checklists are based on LANL-YMP procedures and there was no LANL-YMP procedure to cover this area, the checklists did not cover this area. We recommend that future checklist preparation use the auditee's matrix of procedures versus requirements to ensure that all applicable procedures are addressed in the checklists.

**HQ-93-01 YMQAD & OCRWM HQ (November 30-December 10, 1992 /
[Report not issued as of 1/8/93] Buckley, Gilray, Hooks, Spraul)**

The staff has determined that OCRWM QA Audit HQ-93-01 was useful and effective. The audit was well organized and conducted in a thorough and professional manner with minimal logistic delays. The audit team was well qualified in the QA discipline, and its assignments and checklist items were adequately described in the audit plan.

The staff had concerns regarding the independence of the audit team during the HQ portion of the audit. During the audit, the ATL took action to provide more audit team independence by having auditors from YMQAD assume some of the audit team and ATL's responsibilities regarding the audit of work performed by the ATL's employing organization. While we believe that acceptable independence was provided in this way, we recommend that the planning for future internal audits of OCRWM provide for more audit team independence.

On Tuesday, December 8, 1992, the Director of the HQ QA Division joined the daily audit team debriefing meeting while it was in session. Although this individual had a primary responsibility for the audit, he and his organization were also being audited. These meetings are generally limited to the audit team and observers, and they provide a forum for an open discussion of findings. The presence of this individual appeared to stifle some of the ongoing discussion, and the staff recommends that attendance at these meetings be limited to the audit team and observers.

The staff agrees with the preliminary OCRWM audit team finding that the OCRWM QA program has adequate procedural controls in place. The staff also agrees

that QA program implementation in the areas audited is generally adequate even though Corrective Action was judged by the audit team to be marginally effective at YMQAD. None of the CARs identified by the OCRWM audit team is significant in terms of the overall OCRWM QA program.

At the HQ audit team briefing, the observers were given a notebook that included QA checklists. After the audit, the staff found that the notebook did not include three checklists that were used at YMQAD only. It would have been nice to have this pointed out to the observers when the notebooks were distributed.

S:QAMtg#01.93
January 8, 1993
Jack Spraul

COPIES TO:

B.J.Y
J.L.
J.H.
K.H.
J.S.
J.B.
K.K.
P.B.

FROM: B. Belke

SUBJECT: STATUS OF NRC/DOE QA OPEN ITEMS - JANUARY 26, 1993

<u>ITEM</u>	<u>DESCRIPTION</u>	<u>STATUS</u>	<u>RECOMMENDATION FOR CLOSURE/REMARKS</u>
1-93	Response to NRC Observation Audit		DOE should respond within 60 days of the date of the NRC Observation Audit Report transmittal.
		OPEN	(1) Weakness 5.10 (b) (1) noted in 12/7/92 NRC Observation Audit Report 93-01 for USGS - Audit technical evaluations and criteria for conducting technical evaluations are not prescribed by documented instructions or procedures.



**M&O QA
AUDITS/SURVEILLANCES
OF YMP ACTIVITIES**





YMQAD OBSERVATIONS

AUDITS OBSERVED: 92-NSA-01 THRU 92-NSA-04, 93-NSA-01, 93-NSA-02

**CRITERIA AUDITED: I, II, III, V, VI, XVI, XVII,
TECHNICAL DIRECTIVE, LETTERS**

SUMMARY: AUDITS WERE THOROUGH AND EFFECTIVE. AUDIT 93-NSA-02 DOWNGRADED TO SCOPING VISIT TO BETTER DEFINE M&O DESIGN ACTIVITIES.





YMQAD SURVEILLANCES OF M&O

SURV. NOS.: YM-SR-92-005, 007, AND 015

**CRITERIA SURV.: II-READINESS REVIEWS, VI, XVII-
TRANSITION OF DOC. CTL. & RECORDS; AND III-
CONF. MGMT. TRANSITION.**

**SUMMARY: TWO CARS WRITTEN DURING YM-SR-92-
005**



TECHNICAL SPECIALISTS

QARD DOE/RW-0333P:

- **Audits shall include technical evaluations of applicable procedures, instructions, activities & items. (18.2.4)**
- **Technical Specialists may be used by the auditing organization to assist in assessing the adequacy of the technical process. (18.2.6.D)**
- **Technical Specialists selected for auditing assignments shall be indoctrinated and trained according to the requirements of Section 2.0 and shall have the level of experience or training commensurate with the scope, complexity, or special nature of the work being audited. (18.2.12)**

TECHNICAL SPECIALISTS

IMPLEMENTING AUDIT PROCEDURES WILL ADDRESS:

- **Technical Specialist's Qualifications**
- **Specific OCRWM Audit Training**
- **Scope of Technical Audit**
- **Criteria for Technical Evaluation**
- **Reporting**

TECHNICAL SPECIALISTS

STATUS:

- **Written response to NRC Audit Observation in review process.**
- **Audit Plan amended to recapture the technical criteria.**
- **Procedures to be revised consistent with the new QARD implementation plan.**