

WM-11

LEDR (2)  
See packet 1 for encl.  
Department of Energy

# memorandum

WM DOCKET CONTROL CENTER

DATE: March 5, 1987

REPLY TO:

RW-24

ATTN OF:

'87 MAR -9 P1:27

SUBJECT: Minutes of the January 29, 1987 QACG Meeting

TO: State and Tribal Representatives (list attached)

Attached are the minutes of the QACG meeting that was held in Las Vegas, Nevada on January 29, 1987. Please contact me (202-586-5059) if you have any questions or comments or if there are any corrections or additions that need to be made to these minutes.

Our next meeting is scheduled for April 23, 1987 at the DOE facility in Germantown, Maryland. A QA auditor training course is being held in conjunction with the QACG meeting on April 21-22, 1987. There will be no charge for the training course and all State and Tribal Representatives are invited to attend.

We look forward to seeing you in April. Thank you for your interest in our program and your willingness to be involved.

*Carl Newton*

Carl Newton, Chairman  
Quality Assurance Coordinating Group

Attachment

WM Record File

102.7

WM Project 11

Docket No. \_\_\_\_\_

PDR

LPDR  (N)

Distribution:

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(Return to WM, 623-SS)

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encl. to 3/5/87 memo  
to States & Tribal Rep.

MAILING LIST FOR  
QACG GENERAL SESSION MEETING MINUTES

A. DOE Headquarters

1. James Knight  
DOE (Forrestal)
2. Carl Newton  
DOE (Forrestal)
3. Karl Sommer  
DOE (Forrestal)
4. Stan Echols  
DOE (Forrestal)
5. Gene Langston  
DOE (Forrestal)
6. Hal Steinberg  
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B. DOE/Project Offices

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4. W. J. Kehew  
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5. Pat Brewington  
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102.7

6. Jerry Reese  
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11. Jim B. Shulse  
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2. C. E. Ellingson  
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3. Clarence Williams Jr.  
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4. Jake Lefman  
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5. E. A. Patzer  
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8. Dave Fenstermacher  
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2. Christine Van Lenten  
Weston, Inc.

3. Gary L. Faust  
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4. Ed Sulek  
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- E. NRC
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- F. States
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5. Cheryl Runyon  
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14. Mr. Robert Mooney  
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16. Robert Palm  
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2. Hal Aronson  
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3. J. Herman Reuben, Chairman  
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4. Elwood Patawa, Chairman  
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5. Melvin R. Sampson, Chairman  
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6. Bill Burke  
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7. Russel Jim  
Yakima Tribal Council  
Yakima Indian Nation  
P.O. Box 151  
Toppenish, WA 98948

8. Mr. Stephen S. Hart  
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Others

1. Robert Poe  
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9. Stan Echols  
DOE (Forrestal)



Summary of the Quality Assurance Coordinating  
Group General Session Held in Las Vegas, NV  
on January 29, 1987

I. INTRODUCTION

The Quality Assurance Coordinating Group (QACG) held it's general session at the Science Applications International Contractors offices in Las Vegas, NV. The session attendance is shown in Attachment A. The Agenda for the general session is shown in Attachment B.

II. SESSION SUMMARY

A. Introductory Remarks

Mr. Carl Newton, the QACG Chairman, opened the meeting and introduced Mr. Steve Kale, Associate Director-OGR, who made an opening presentation on DOE's commitment to quality. Mr. Kale briefed the attendees on the recent Mission Plan amendment including the extension of the repository schedule by (5) years.

B. Status of OGR QA Program

- o Mr. Carl Newton then presented and discussed the HQ-OGR QA Action Plan for 1987 (Attachment C). Attachment D is a copy of the DOE memo of understanding on mine safety that was discussed during the presentation.
- o Mr. Newton next discussed the major comments received from State and Tribal Representatives on the OGR QA Plan and the intended DOE response to the comments. (Attachment E)

- o Mr. Karl Sommers, DOE HQ-OGR QA, presented the "Status/Planned HQ-OGR Activities on Auditor Certification and Training Courses" (Attachment F).

C. OCRWM Appraisal of OGR

As a result of Mr. M. E. Langston not being able to be in attendance at the meeting, this subject was not discussed.

D. Project Office Progress Reports on QA Activities

- o Mr. Pierre Saget, BWIP Director-QS Division, presented and discussed the "BWIP QA Progress Report" (Attachment G)
- o Mr. Jim Blaylock, WMPO QA Manager, presented and discussed the "WMPO QA Progress Report" (Attachment H)
- o Mr. Jerry Reese, SRPO QA Manager, presented and discussed the "SRPO QA Progress Report." (Attachment I)

E. Issues Identified From Previous QACG Meeting

Attendees next discussed the draft OGR QA Plan Supplement dealing with non-DOE observers on DOE audits. It was decided to hold a workshop for DOE and affected States and Indian Tribes to discuss/resolve the requirements, issues and concerns on this subject. It was agreed that the workshop would be held on April 23, 1987 as a part of the next QACG meeting. Some general comments on the subject were made, but detailed discussion of the requirements, issues and concerns was deferred to the April, 1987 workshop session.

F. Comments from NRC

Mr. Jim Kennedy, NRC, addressed the meeting and held discussions on the topics of NRC Generic Technical Positions, NRC review of DOE documents and NRC audits.

o GTP's

Mr. Jim Kennedy discussed NRC Generic Technical Positions and stated that Generic Technical Positions on "Peer Review", "Qualification of Data" and "Q-List" were expected to be issued in the March/April, 1987 time frame. Discussion also centered on the on-going NRC revision to the "NRC Review Plan" and Mr. Kennedy stated that a draft of the current revision was expected to be available around April, 1987.

o DOE Documents

Mr. Kennedy also discussed and handed out the NRC comments (Attachment J) on the OGR QA Plan. Mr. Jim Kennedy stated that the NRC has also completed their review of the "Basalt Quality Assurance Requirements" document and the "SRPO QA Plan." He noted that the NRC planned to also perform a "selective" review of program procedures.

o Audits

Mr. Kennedy stated that the NRC has been and will continue to observe DOE audits. A discussion on the planned NRC mini-audits was held Mr. Kennedy emphasized that the NRC will be using the criteria of Appendix A of the NRC Review Plan to perform the mini-audits.

G. Comments From State Representatives

1) Washington

Mr. Don Provost presented and discussed several Washington state comments. The major comments included:

- o Discussion of participation by the Washington State Representative in the BWIP audit of PNL.
- o Discussion of the planned Washington state Request For Proposal for a contractor to provide technical and quality assurance support to the State.
- o Discussion of the Washington state plan to have an on-site representative at BWIP.

2) Texas

Ms. Susan Zimmerman presented and discussed several Texas state comments. Her major comments included:

- o Discussion of the (5) year program extension proposed in the Mission Plan amendment.
- o Discussion on the Texas office QA Plan. Ms. Zimmerman expects the Texas office QA Program to be in place in May, 1987.
- o Discussion of the current/planned Texas office staffing with regard to quality assurance.
- o Discussion of Texas's plan to obtain NRC review of the Texas office QA Plan.

3) Nevada

Mr. Carl Johnson presented and discussed the Nevada state comments. His major comments included:

- o Nevada state has hired Sargent and Lundy as the Quality Assurance support contractor.
- o Nevada's program QA Plan and procedures are scheduled to be drafted around 2/87 and finalized by the end of 4/87.
- o Discussion of Nevada's plan to obtain NRC review of the Nevada office QA Program.
- o Discussion of current/planned Nevada office staffing with regard to quality assurance.

H. Comments From Tribal Representatives

1) Nez Perce

Mr. Floyd Kugzruk discussed the main objectives in the Nez Perce program overview/interface which include (1) observing the DOE QA program, (2) determine credibility of work performed and (3) review of technical issues related to site characterization.

2) Umatilla

Mr. Abdul Alkezweeny discussed the DOE audits he participated in as an observer.

3) Yakima

Mr. Jack Whitman discussed the environmental studies the tribe plans to perform to collect data and stated that a QA program would be required to cover the activities and is tentatively scheduled to be developed by the end of 1987.



Place \_\_\_\_\_

Date \_\_\_\_\_

ATTENDANCE LIST

NAME (Please Print)	Position Title	Organization Represented
Jim Kennedy,	Section Leader	NRC
Doug Smith	Branch Mgr., QA	SAIC
JOHN B. SILVERWOOD	CONSULTANT	BWIP (MAC)
Roger T. Johnson	Quality Assurance, Mgr.	RHO BWIP
C.P. SAGET	Quality Systems Director	DOE BWIP
I. J. Lehman	CNIWI & A Mgr.	SRPC / SPMD
HAL STEINBERG	QA MANAGER. OSTIS-HQ	DOE-OSTIS-HQ
STEPHEN H. KALE	ASSOC. DIR. OFF <del>GE</del> GEO. REPOS.	DOE-HQ
JOHN RINALDI	DIRECTOR, QA DIV	DOE-LANVELAI
Jim Blawieck	QUALITY ASSURANCE	DOE/NV/WMPD
CYCE MLOIKS	Quality Assurance	DOE/LV
DALE HEDGES	DIR. OF QA	CER CORP
EDWARD W EULER	QA CONSULTANT	SELF
Michael J. Flaminio	Quality Assurance Manager	DOE / GP
Lawrence Williams	Assistant GM for Quality	Battelle - Proj. Mgt. Div.

Place SAIC LAS VEGAS, N.V.

Date 1-29-87

ATTENDANCE LIST

NAME (Please Print)	Position Title	Organization Represented
ARY L. FAUST	QA SECTION MANAGER	ROY F. WESTON
ARL G. SOMMER	QA ENGINEER	HQ/IGR
ERRY REESE	CHIEF, QA	DOE /SRPO
ANDRA K. BREWE	YAKIMA INDIAN NATION	-TOMENISH, WIA
DON PROUST	Performance assessment Mgr	State of Washington
SUGAN ZIMMERMAN	Geologist	State of TEXAS
Adul J. Alkuzweeny	Nez Percer and Umatilla Tribes On-site Representative	CERT
David Wolf	Dale Coord. Confederated Tribes of the Umatilla Indian Reservation	Pendleton, OR
David K. Kugzrut	Tech Coordinator	NEZ PERCE TRIBE
Larry Collins	Confederated Tribes of the Umatilla Indian Reservation	Pendleton, OR
J P KNIGHT	Dir Site Lic & QA Div	DOE/HQ
ARL NEWTON	QA Manager	DOE / HQ
Tom COLANOREA	EEI/UNWMS QA CONSULTANT	UNWMS
Bud Kehew	QA MANAGER	DOE/RTTD
Joe Prestholt	On-site Rep. NRC	NRC



Agenda for QACG Meeting  
in Las Vegas, Nevada on  
January 29, 1987  
(Open to NRC, States, Tribes; Closed to Public)

January 29, 1987

- |    |   |                |             |
|----|---|----------------|-------------|
| 1. | Welcome and Introductory Remarks                            | S. Kale        | 8:30-8:45   |
| 2. | Status of OGR QA Program                                    | C. Newton      | 8:45-9:30   |
|    | o Disposition of Comments on OGR QA Plan and QA Supplements |                |             |
|    | o Status of DOE Comments on NRC Review Plan and GTP's.      |                |             |
|    | o DOE Auditor Training Courses                              |                |             |
| 3. | OCRWM Appraisal of OGR                                      | M. E. Langston | 9:30-10:00  |
|    | BREAK   |                | 10:00-10:30 |
| 4. | Progress Reports on BWIP QA Activities                      | P. Saget       | 10:30-11:30 |
|    | Progress Reports on WMPO QA Activities                      | J. Blaylock    | 11:30-12:30 |
|    | LUNCH   |                | 12:30-1:30  |
|    | Progress Reports on SRPO QA Activities                      | J. Reese       | 1:30-2:30   |
| 5. | Issues Identified from Previous QACG Meeting                | C. Newton      | 2:30-3:00   |
|    | o Non-DOE Observers in OGR Audits                           |                |             |
|    | o State and Tribal Involvement in OGR QA Program            |                |             |
|    | BREAK   |                | 3:00-3:30   |
| 6. | Comments from NRC   |                | 3:30-3:45   |
| 7. | Comments from State Representatives                         |                | 3:45-4:30   |
|    | - Nevada  |                |             |
|    | - Texas   |                |             |
|    | - Washington  |                |             |
| 8. | Comments from Tribal Representatives                        |                | 4:30-5:15   |
|    | - Nez Perce   |                |             |
|    | - Umatilla Confederated                                     |                |             |
|    | - Yakima  |                |             |

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

1. INTERACTIONS WITH NRC

- A. MEET WITH NRC TO DISCUSS DOE COMMENTS ON NRC GTP'S ON PEER REVIEW, HISTORIC DATA, AND Q-LIST METHODOLOGY.
- B. RECEIVE REVISED GTP'S FROM NRC AND TRANSMIT TO PROJECTS FOR REVIEW.
- C. CONSOLIDATE PROJECT COMMENTS AND TRANSMIT COMMENTS TO NRC.
- D. BRIEFING FOR NRC ON STATUS OF OGR QA PROGRAM.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

2. ESTABLISH QUALIFIED OGR QA PLAN
  - A. RECEIVE COMMENTS FROM NRC, STATES, & TRIBES ON AUGUST 1986 VERSION.
  - B. PROPOSED COMMENT DISPOSITION FOR OGR & OCRWM MANAGEMENT REVIEW AND APPROVAL.
  - C. REWRITE OF OGR QA PLAN COMPLETE.
  - D. OGR MANAGEMENT REVIEW COMPLETE.
  - E. OCRWM MANAGEMENT REVIEW COMPLETE.
  - F. PUBLICATION AND DISTRIBUTION OF REVISED OGR QA PLAN COMPLETE.
  - G. COMPLETE DRAFT SUPPLEMENTS #6 (PROBLEM REPORTING), #10 (WASTE FORM QA REQUIREMENTS) #11 (OVERSIGHT OF QA ACTIVITIES FOR DEFENSE WASTES), AND #12 (PROTOCOL FOR OBSERVERS ON DOE AUDITS).
  - H. DISPOSITION COMMENTS ON DRAFT SUPPLEMENTS AND COMPLETE REWRITE OF SUPPLEMENTS.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

3. ESTABLISH QUALIFIED OGR IMPLEMENTING PROCEDURES
  - A. DRAFT PROCEDURES ON DESIGN REVIEW, PEER REVIEW, TECHNICAL REVIEWS, PROCUREMENT DOCUMENT CONTROL, CONTROL OF PURCHASED SERVICES, AND UNUSUAL OCCURRENCE REPORTING (UOR) READY FOR OGR MANAGEMENT REVIEW.
  - B. COMMENTS RECEIVED FROM REVIEWERS.
  - C. PROPOSED DISPOSITION READY FOR OGR MANAGEMENT REVIEW.
  - D. FINAL PROCEDURES ISSUED.
  - E. PUBLICATION AND DISTRIBUTION COMPLETE.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

4. COMPLETE OGR INDOCTRINATION AND TRAINING
  - A. DRAFT TRAINING PLAN IDENTIFYING EMPLOYEES, TRAINING NEEDS, AND SCHEDULE FOR TRAINING.
  - B. COMMENTS RECEIVED AND DISPOSITION; FINAL TRAINING PLAN COMPLETED.
  - C. INDOCTRINATION AND TRAINING COMPLETED.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

5. OGR QA RECORDS SYSTEM ESTABLISHED
  - A. SCOPE OF WORK FOR LSS CONTRACTOR COMPLETED.
  - B. CONTRACTOR HIRED.
  - C. SYSTEM IMPLEMENTED AND OPERATIONAL.
  - D. PROCESSING OF BACKLOG OF HISTORICAL QA RECORDS COMPLETED.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

6. CENTRALIZED UOR AND PROBLEM REPORTING SYSTEM IMPLEMENTED
  - A. DRAFT OF SYSTEM DESCRIPTION AND DESIGN COMPLETE. MAY 1
  - B. PROJECT AND OGR/OCRWM MANAGEMENT REVIEW COMPLETE. JULY 1
  - C. COMMENTS DISPOSITION AND FINAL SYSTEM DESCRIPTION COMPLETE. SEPTEMBER 1
  - D. SYSTEM IMPLEMENTATION COMPLETE. NOVEMBER 2

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

7. IMPLEMENT SAFETY ASSURANCE PLAN
  - A. DRAFT OGR GUIDANCE TO PROJECT FOR COMMENT.
  - B. PROJECT COMMENTS RECEIVED.
  - C. COMMENTS DISPOSITION AND PLAN FINALIZED.
  - D. OGR/OCRWM MANAGEMENT REVIEW COMPLETE AND FINAL GUIDANCE ISSUES TO PROJECTS.



QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

8. SPECIAL STUDIES

- A. SPECIAL REPORTS FOR OGR/OCRWM MANAGEMENT.
- B. BRIEFING FOR OGR/OCRWM MANAGERS.
- C. BRIEFING FOR OTHER SPECIAL GROUPS.
- D. PAPERS FOR CONFERENCES.
- E. RESPONSES TO FOIA REQUESTS.
- F. RESPONSES TO CONGRESSIONAL QUESTIONS.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

9. PERFORM MANAGEMENT ASSESSMENT

- A. DEVELOP PLAN FOR PERFORMING AND DOCUMENTING THE MANAGEMENT ASSESSMENT REQUIRED BY SECTION 4.4 OF OGR PLAN.
- B. MANAGEMENT ASSESSMENT COMPLETE AND REPORT ISSUED.
- C. TRACK RECOMMENDATIONS AND MAKE PERIODIC REPORT.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

10. ADMINISTRATION AND CLERICAL

- A. ESTABLISH AN ACTION TRACKING SYSTEM
- B. DEFINE GUIDELINES FOR IDENTIFYING QUALITY ASSURANCE RECORDS IN QA BRANCH OF S, L, & QA DIVISION.
- C. IMPLEMENT QA RECORDS SYSTEM FOR QA BRANCH.
- D. DEVELOP SYSTEM FOR TRACKING CHANGES TO CONTROLLED DOCUMENTS MAINTAINED BY OGR QA BRANCH.
- E. IMPLEMENT SYSTEM FOR TRACKING CHANGES TO OGR QA BRANCH CONTROLLED DOCUMENTS.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

11. CONDUCT INTERNAL OGR QA AUDIT
  - A. DEVELOP AUDIT PLAN.
  - B. SEND NOTIFICATION LETTER.
  - C. COMPLETE PREPARATION OF AUDIT CHECKLISTS.
  - D. COMPLETE AUDIT.
  - E. ISSUE AUDIT REPORT.
  - F. EVALUATE CORRECTIVE ACTION RESPONSES.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

12. RESPOND TO NRC QA AUDIT OF OGR
  - A. NOTIFY NRC OF OGR READINESS
  - B. NRC AUDIT OF OGR COMPLETE
  - C. NRC AUDIT REPORT ISSUED
  - D. OGR RESPONSE TO AUDIT FINDINGS SENT TO NRC

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

13. CONDUCT QACG MEETINGS

A. ISSUE AGENDA

B. MEETING COMPLETE

C. DISTRIBUTE MEETING MINUTES

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

- 14. CERTIFY WASTE PROCEDURES QA PROGRAM
  - A. REVIEW AND COMMENT ON DRAFT QA PLAN.
  - B. REVIEW AND COMMENT ON DRAFT PROCEDURES.
  - C. APPROVE FINAL QA PLAN AND PROCEDURES.
  - D. COMPLETE AUDITS.
  - E. ISSUE AUDIT REPORTS. OCTOBER 15
  - F. EVALUATE CORRECTIVE ACTION. NOVEMBER 13
  - G. CLOSE OUT AUDIT FINDINGS. DECEMBER 1
  - H. CERTIFY TO NRC WASTE PRODUCER'S QA PROGRAM.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

15. INTERACTIONS WITH STATES/TRIBES

- |   |          |
|---|----------|
| A. REVIEW AND DISPOSITON COMMENTS ON OGR QA PLAN            | MARCH 31 |
| B. REVIEW AND DISPOSITION COMMENTS ON PROJECT'S<br>QA PLANS | JUNE 19  |
| C. MANAGE AUDIT SCHEDULE INTERACTIONS AND REPORTS           | ONGOING  |



QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

16. OVERSEE ESTABLISHMENT OF QUALIFIED PROJECT OFFICE QA PROGRAMS

- A. RECEIVE NRC STATE, AND TRIBAL COMMENTS ON QA PLANS AND PROCEDURES.
- B. OGR REVIEW OF REVISED PLANS COMPLETE.
- C. OGR CONSULTATION WITH NRC STATES, AND TRIBES COMPLETE.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

17. HQ AUDITS OF PROJECTS

- A. SELECT AND ORGANIZE TEAM.
- B. CHECKLIST COMPLETE.
- C. SEND NOTIFICATION LETTER.
- D. COMPLETE AUDIT.
- E. ISSUE AUDIT REPORT.
- F. RECEIVE AND EVALUATE PROPOSED CORRECTIVE ACTION.
- G. CLOSE OUT AUDIT FINDINGS.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

18. HQ PARTICIPATION IN PROJECT AUDITS OF CONTRACTORS

[NOTE: APPROXIMATELY 60 AUDITS OF CONTRACTORS WILL BE  
CONDUCTED IN 1987 - EACH AUDIT REQUIRES THE SAMPLE  
ACTIONS BELOW]

- A. SELECT/CONFIRM OGR REPRESENTATIVES ON AUDIT.
- B. PRE-AUDIT ORIENTATION BY OGR-QA.
- C. CHECKLIST REVIEW/REVISION.
- D. PARTICIPATE IN AUDIT (PRE-AUDIT TEAM BRIEFING, ENTRANCE MEETING,  
AUDIT INTERVIEWS, EXIT MEETING).
- E. PREPARE REPORT OF PARTICIPATION.
- F. REVIEW AUDIT REPORT AND COMMENT.
- G. REVIEW CORRECTIVE ACTION AND COMMENT.

QUALITY ASSURANCE ACTION PLAN FOR 1987  
OFFICE OF GEOLOGIC REPOSITORIES

19. NRC AUDITS OF PROJECTS/CONTRACTORS
  - A. SCHEDULE AUDITS OF PROJECTS AND CONTRACTORS.
  - B. NRC COMPLETE AUDITS.
  - C. NRC AUDIT REPORTS RECEIVED/EVALUATION.
  - D. DOE CORRECTIVE ACTION PROPOSED TO NRC.
  - E. NRC VERIFICATION OF COMPLETED CORRECTIVE ACTION.
  - F. NRC "APPROVAL" OF PROGRAM.

COPY FOR

- SRPO Chiefs
- JON
- RCW
- SEC Staff

Return to Ted

Need by noon 1/15

done

Memorandum of Understanding  
Between the  
U.S. Department of Energy  
and the  
U.S. Department of Labor

**I. Introduction**

**A. Background**

The Department of Energy's (DOE's) Office of Civilian Radioactive Waste Management (OCRWM) is involved in activities that will lead to the construction of underground facilities from approximately 1400 to 3400 feet underground and involving a substantial expanse of horizontal drifts. The current OCRWM program will be evaluating the suitability of three different sites, in bedded salt, tuff and basalt to determine suitability for use as a repository for spent nuclear fuel and high-level radioactive waste. One of the sites evaluated may subsequently be developed into an operating repository.

A major concern of DOE in carrying out these activities is the safety and health protection of all underground workers at the sites, both for the personnel involved in extractive processes (who will number in the hundreds at each site during construction) as well as for the underground operating personnel (who will probably number from 35 to approximately 200 at the various sites during much of the 25 to 50 years the facilities could be in operation).

Under the Federal Mine Safety and Health Act of 1977 (the Mine Act), the Mine Safety and Health Administration (MSHA) of the U.S. Department of Labor (DOL) is responsible for conducting mine inspections and investigations and developing and enforcing regulations and standards to protect the safety and health of miners. In the course of carrying out this responsibility, MSHA has developed technical expertise in mine safety and health.

**B. Purpose**

The purpose of this Memorandum of Understanding (MOU) is to accomplish the following:

1. To formalize a working arrangement whereby MSHA inspects operations of OCRWM to determine compliance with MSHA standards. The results of these inspections will be furnished to DOE so that DOE can implement its policy of

compliance with MSHA standards as though repositories were commercial mines by taking the necessary actions with the DOE contractors to assure the prompt and effective correction of any deficiencies and to otherwise ensure general compliance with MSHA's mining health and safety requirements, and

2. To establish a procedural framework for the furnishing of MSHA technical assistance and consultation services to DOE with respect to mine geology, underground construction techniques, and related matters concerning the protection of life, the promotion of health and safety, and the prevention of accidents in DOE's underground repository operations.

### C. Authorities

This MOU is consistent with and is entered into under the following statutory authorities: Section 601 of the Economy Act of 1932, as amended (31 U.S.C. 1535); Section 161 (f) of the Atomic Energy Act of 1954, as amended (42 U.S.C. 2201 (f)); Section 646 of the Department of Energy Organization Act (42 U.S.C. 7256); the Nuclear Waste Policy Act of 1982 (42 U.S.C. 10101 et. seq.); the Federal Mine Safety and Health Act of 1977, as amended (30 USC 801 et. seq.); and Section 100 of the Departments of Labor, Health and Human Services, and Education and Related Agencies Appropriations Act 1986 (30 USC 962).

### II. Inspections, Investigations and Technical Assistance

- A. MSHA will conduct periodic, health and safety compliance assistance inspections of OCRWM program mining operations to assess the conformance of such operations with MSHA standards.
- B. The following MSHA standards are relevant to underground operations conducted by the OCRWM program:

30 CFR Parts 31, 32, 36, 48, 49 and 57.

In addressing these standards, DOE may encounter situations in which DOE considers that an alternative approach to that specified in the standards is required. In those instances, DOE will consult with MSHA to arrive at a mutually agreeable solution.

- C. The results of all compliance assistance inspections will be furnished to the applicable OCRWM project office in writing at

the conclusion of each inspection with a copy to the Office of Geologic Repositories, and DOE will thereafter take the necessary actions to assure the timely correction of any deficiencies. In the results of inspections forwarded to DOE, MSHA will indicate conditions which would constitute a violation of MSHA standards and also, where appropriate, will include recommendations for remedial actions.

- D. DOE's health and safety program encourages its contractors' employees to bring any health or safety complaints to either the employer or to DOE directly. Any such complaint or other information received by MSHA while performing work under this MOU will be transmitted to DOE and DOE will inform MSHA of its disposition of the complaint.
- E. When requested by DOE, MSHA will participate in any accident or fatality investigation at an OCRWM program site.
- F. In addition to inspections, MSHA will provide technical assistance as well as review and consultation services regarding mine safety and health matters for the OCRWM projects when requested by DOE via the Office of Geologic Repositories, subject to the availability of MSHA manpower.

G. Property

When available, DOE shall furnish the use of working space and other equipment (e.g. office equipment) required for the performance of this MOU, except such types of equipment as MSHA normally furnishes in connection with its regular mission.

H. Radiological Safety and Health, and Security

MSHA agrees to conform to all radiological safety and health, and security regulations and requirements of DOE while performing services in connection with this agreement.

III. Administration

This MOU will be administered on behalf of DOE by the Office of Geological Repositories in OCRWM. Normal working contacts with DOE shall be with the Project Office Managers, or by such other representative(s) as the Project Office Managers shall designate in written notice to MSHA. Administration on the behalf of MSHA will be by the Administrator for Metal and Nonmetal Mine Safety and Health, or by such other representative(s) as he/she shall designate in written notice to DOE.

**IV. Reimbursement**

Subject to future specific agreement of the parties, DOE will reimburse MSHA for the cost of services provided under this MOU.

**V. Public Release of Information**

MSHA and DOE shall consult with each other before release of information under the Freedom of Information Act, 5 U.S.C. 552, regarding activities carried out pursuant to this MOU.

**VI. Effective Date, Amendment and Termination**

This MOU shall become effective when signed by both parties. It may be modified or amended by written agreement between DOE and MSHA. It shall continue in effect until terminated by either party upon 30 days written notice to the other.

The following signatures constitute acceptance of this MOU for the Department of Energy and the Department of Labor.

U.S. DEPARTMENT OF LABOR

U.S. DEPARTMENT OF ENERGY

BY:

  
DAVID A. ZEGER

  
BEN C. RUSCHE

Title: Assistant Secretary for  
Mine Safety and Health

Director Office of  
Civilian Radioactive  
Waste Management

Date:

12-23-86

Date:

12-23-86



# **SUMMARY OF COMMENTS FROM STATE REPRESENTATIVES ON THE QA PLAN FOR HIGH-LEVEL RADIOACTIVE WASTE REPOSITORIES**

- **STATES SUBMITTING COMMENTS: NEVADA  
TEXAS  
WASHINGTON**
- **ALL STATE COMMENTS TRANSMITTED TO EACH STATE**
- **ALL COMMENTS WILL BE CONSIDERED DURING NEXT REVISION OF QA PLAN**

# GENERAL COMMENTS

## PROGRAM

1. NQA-1-1986 SHOULD BE REQUIRED
2. STATES AND TRIBES SHOULD BE INVOLVED MORE
  - a. PERIODIC QA STATUS REPORTS/INFORMATION
  - b. REVIEW OF PROJECT OFFICE QA PROGRAMS/PROCEDURES
3. MANAGEMENT ASSESSMENTS SHOULD BE EXPLAINED IN MORE DETAIL

# **GENERAL COMMENTS (Cont.)**

## **ORGANIZATION**

- 1. CLARIFY ORGANIZATIONAL RELATIONSHIP BETWEEN THE OGR QA MANAGER AND OCRWM QA MANAGER**
- 2. THE OGR QA MANAGER SHOULD REPORT AT A HIGHER LEVEL**
- 3. PROJECT OFFICES REPORT BOTH TO THE OPERATIONS OFFICE AND HQ-OGR**

# **GENERAL COMMENTS (Cont.)**

## **QUALITY LEVELS**

- 1. DISCUSSION OF QUALITY LEVELS SHOULD BE MORE DETAILED**
- 2. ALL SITE CHARACTERIZATION DESIGN STAGE ACTIVITIES SHOULD BE "Q-LISTED"**

## **PEER REVIEWS**

- 1. INDEPENDENCE OF PEER REVIEWERS SHOULD BE MORE DEFINED**

## **RECORDS**

- 1. RETENTION TIMES FOR VARIOUS RECORDS SHOULD BE REVIEWED CONSIDERING THE TIME SPAN OF THE PROGRAM**



**STATUS/PLANNED ACTIVITIES  
HQ/OGR  
AUDITOR CERTIFICATION  
AND  
TRAINING COURSES**

**DATE: JANUARY 28, 1987**

**BY: K.G. SOMMER**

**HQ/OGR—SITING, LICENSING,  
AND QUALITY ASSURANCE DIV.**

**AUDITORS**

**8- OGR CERTIFIED FEB. 1985**

**1- OGR CERTIFIED SEPT. 1986**

**9- OGR CERTIFIED DEC. 1986**

**6- CONTRACTOR CERTIFIED DEC. 1986**

**22- TOTAL AVAILABLE FOR AUDIT PARTICIPATION**

**AUDIT TEAM LEADERS**

**1- OGR CERTIFIED FEB. 1985**

**2- CONTRACTOR CERTIFIED FEB. 1985**

**1- CONTRACTOR CERTIFIED MAY 1985**

**1- CONTRACTOR CERTIFIED FEB. 1986**

**1- CONTRACTOR CERTIFIED JULY 1986**

**1- OGR CERTIFIED DEC. 1986**

**1- CONTRACTOR CERTIFIED JAN. 1987**

**7- TOTAL AVAILABLE FOR AUDIT PARTICIPATION**

**NON - DOE OBSERVERS**

**4- NRC HQ PERSONNEL SUCCESSFULLY COMPLETED THE HQ/OGR  
AUDITOR TRAINING COURSE NOV. 1986**

**AUDITOR TRAINING/RECERTIFICATION**

- **IN ACCORDANCE WITH HQ/OGR QIP 18.3**



## AUDITOR EDUCATIONAL BACKGROUNDS

- **SPECIFIC FOR AUDITOR/TECHNICAL SPECIALISTS ——— INCLUDING VARIOUS EXPERTISE: ———**

- B.S. MECH. ENG.
- B.S. MET. ENG.
- B.S. ENVIR. ENG.
- B.S. NUC. ENG.
- M.S. NUC. ENG.
- M.S. GEOLOGY
- M.A. GEOLOGY
- PH.D. CHEM.
- JURIS DOC.
- B.S. ELECT. ENG.
- B.S. GEOLOGY
- B.S. IND. ENG.
- B.A. GEOGRAPHY
- M.S. MGT.
- M.S. MECH. ENG.
- M.S. SYSTEMS
- PH.D. NUC. ENG.
- MBA

## **SECOND HQ/OGR AUDITOR TRAINING COURSE**

- **COURSE CONDUCTED NOV.18-19, 1986**
- **9-OGR AUDITORS CERTIFIED**
- **6-CONTRACTOR AUDITORS CERTIFIED**
- **4-NRC HQ PERSONNEL COMPLETED COURSE**
- **JOHN RAYMOND, SENIOR Q.A. ENG. UE&C COURSE INSTRUCTOR**
- **COURSE DESIGNED FOR NEEDS OF OCRWM PROGRAM**
- **DESCRIPTION (LECTURES & WORKSHOPS):**
  - **REVIEW/DISCUSSION QUALITY DOCUMENTS**
  - **AUDIT OVERVIEW PROCESS**
  - **TRAINING, QUALIFICATION & CERTIFICATION REQUIREMENTS**
  - **TECHNICAL SPECIALISTS AND OBSERVERS**
  - **PLANNING & SCHEDULING AUDITS**
  - **ETIQUETTE**
  - **AUDIT PROCESS; 1). PREPARATION, 2). PERFORMANCE, 3). REPORTING, 4). RESPONSE, FOLLOW-UP & CLOSEOUT**
  - **COURSE SUMMARY**
  - **EXAMINATION**

## **THIRD HQ/OGR AUDITOR TRAINING COURSE**

- **PLANNED FOR 2ND QUARTER-1987**
- **WASHINGTON D.C. LOCATION**
- **2-DAY COURSE**
- **COURSE MATERIALS PROVIDED**
- **NO ENROLLMENT FEE**
- **ENROLLMENT LIMITED TO 20 ATTENDEES**
- **ENROLLMENT ENCOURAGED FROM:**
  - **STATE REPRESENTATIVES**
  - **TRIBAL REPRESENTATIVES**
  - **NRC**
  - **MAJOR CONTRACTORS**

**BWIP QA**  
**PROGRESS REPORT**

# BWIP QA PLANS STATUS REPORT

AS OF QUARTER ENDING 12/31/86

MAJOR PARTICIPANT	DOCUMENT IDENTIFICATION	REV. NO.	STATUS*	APPROVAL DATE	REMARKS
RHO	RHO-QA-MA-3	2	5	8/4/86	REV. 3 TO DOE/RL FOR APPROVAL 12/86 - INCLUDES NQA-1-86 & OGR/B-3
KE/PB	BWIP PROCEDURES MANUAL	2	4	1/87	DOE-RL APPROVED 30, 12 WITH COMMENTS, DISAPPROVED 3
M-K	BWIP QA MANUAL	1	4	1/87**	**DOE-RL PREPARING TO APPROVE WITH COMMENTS
PNL	QA MANUAL FOR LICENSING RELATED PROGRAMS (PNL-MA-60)	1	5	9/5/86	
WHC	QA MANUAL MG-197	•	5	8/6/86	
DOE-RL	BQARD	1	5	6/6/86	BOTH BEING REVISED TO ADDRESS NQA-1 1986 OGR-B3 & REORG
	DOE-RL QA PLAN	1	5	8/14/86	

**\*STATUS LEGEND:**

- 1 - PLANNED
- 2 - UNDER PREPARATION
- 3 - FOR COMMENT RESOLUTION

- 4 - FOR PROJECT APPROVAL
- 5 - ISSUED FOR IMPLEMENTATION

\* MANUAL HAS SEVERAL SECTIONS WITH INDIVIDUAL REVISION NUMBERS.

## QA PROCEDURES DEVELOPMENT SUMMARY

AS OF QUARTER ENDING 12/31/86

PROCEDURES STATUS	MAJOR PARTICIPANTS						PROJECT TOTALS	REMARKS
	DOE-RL	RHO	KE/PB	M-K	PNL	WHC		
TOTAL REQUIRED	36	31	47	26	80	68	288	*TO BE ISSUED AS QAPP'S IN RHO-BW-MA-17
ISSUED FOR IMPLEMENTATION	35*	15	30	8	80	68	236	*BEING REVISED TO ADDRESS NQA-1-86, OGR-B3 & REORG. CHANGES
APPROVED BY DOE-RL	35	18	42*	20**	NA***	NA***	113	*30 APPROVED NO COMMENTS 12 APPROVED WITH COMMENTS **8 APPROVED NO COMMENTS 12 APPROVED WITH COMMENTS *** APPROVED BY RHO
UNDER REVIEW OR COMMENT	0	12	3*	6*	—	—	20	*DISAPPROVED BY DOE
UNDER PREPARATION	0	0	2	0	—	—	3	
NOT YET STARTED	1	1	—	—	—	—	1	

# BWIP FY 87 QA AUDIT STATUS REPORT

AS OF QUARTER ENDING 12/31/86

INITIATING ORGANIZATION	AUDITS			AUDIT FINDINGS					REMARKS
	FISCAL YEAR		QUARTER	FISCAL YEAR			QUARTER		
	PL	CO	CO	IS	CL	OP	IS	CL	
RHO	0	0	0	0	16	7	0	16	
KE/PB	0	0	0	0	2	0	0	2	
M-K	5	4	4	5	0	5	5	0	
PNL	1	1	1	1	1	0	1	1	
WHC	1	0*	0*	0	0	0	0	0	*AUDIT STARTED DURING QUARTERS. NOT YET COMPLETED
DOE-RL	7	0	0	0	0	43	0	0	

**LEGEND:**

PL = PLANNED  
CO = COMPLETED

IS = ISSUED  
CL = CLOSED

OP = STILL OPEN

# BWIP FY 87 SURVEILLANCE STATUS REPORT

AS OF QUARTER ENDING 12/31/86

INITIATING ORGANIZATION	SURVEILLANCES			SURVEILLANCE REPORTS					REMARKS
	FISCAL YEAR	QUARTER	QUARTER	FISCAL YEAR			QUARTER		
	PL	CO	CO	IS	CL	OP	IS	CL	
RHO	78	32	32	32	50	20	32	50	
KE/PB	78	50	50	50	50	2	50	50	DISCREPANCY IN PL & IS IS DUE TO SLIPPAGE OF WORK
M-K	0	0	0	0	0	0	0	0	NO ACTIVITIES TO SURVEIL
PNL	14	14	14	14	14	6	14	14	
WHC	3	4	4	4	3	1	4	3	
DOE-RL	40	4	4	4	4	9	4	4	

**LEGEND:**

PL = PLANNED  
CO = COMPLETED

IS = ISSUED  
CL = CLOSED

OP = STILL OPEN



# BWIP FY 87 CAR AND NCR STATUS REPORT

AS OF QUARTER ENDING 12/31/86

INITIATING ORGANIZATION	CAR TOTALS						NCR TOTALS					REMARKS
	FISCAL YEAR			QUARTER			FISCAL YEAR			QUARTER		
	IS	CL	OP	IS	CL	IS	CL	OP	IS	CL		
RHO	0	3	2	0	3	0	0	5	0	0	CAR BCAR-86-004 VOIDED	
KE/PB	1	0	0	1	0	3	2	1	3	2		
M-K	1	0	1	1	0	1	0	1	1	0		
PNL*	0	0	0	0	0	8	11	3	8	11	*INCLUDES DEFICIENCY REPORTS (DRs) AS WELL AS NCRs	
WHC	0	0	0	0	0	2	2	0	0	0		
DOE-RL	0	0	1	0	0	0	0	0	0	0		

**LEGEND:**

PL - PLANNED  
IS - ISSUED

CO - COMPLETED  
OP - STILL OPEN

CL - CLOSED

# QA STAFFING STATUS REPORT

AS OF QUARTER ENDING 12/31/86

FUNCTIONAL ACTIVITY	MAJOR PARTICIPANTS												REMARKS
	DOE-RL		RHO		KE/PB		M-K		PNL		WHC		
	EX	REQ	EX	REQ	EX	REQ	EX	REQ	EX	REQ	EX	REQ	
ADMINISTRATION/ MANAGEMENT	1	1	11	11	1	1	2	1.5*	1	1	2	2	*QC SUPERVISOR 9/29/86
PROGRAM DEVELOPMENT	3	3	7	7	1	1	1	1.5	3	4.25	4	2	
PROGRAM VERIFICATION	2	2	26	26	0	0	2	2	5	6.5	1	3	
CONSULTANTS	19	19	0	0	0	0	0	0	2	4	0	0	
OTHERS	0	0	16	11	0	0	0	0	0	0	0	0	
<b>TOTALS</b>	<b>25</b>	<b>25</b>	<b>60</b>	<b>55</b>	<b>2</b>	<b>2</b>	<b>5</b>	<b>5</b>	<b>11</b>	<b>15.75</b>	<b>7</b>	<b>7</b>	

EX = EXISTING STAFF  
REQ = STAFFING REQUESTED FOR THE FY

# DOE/RL BWI TRAINING PROGRAM

INITIAL PROCEDURE ORIENTATION	COMPLETE	07-05-86
PROJECT ORIENTATION	COMPLETE	09-15-86
ADVANCED AUDIT TRAINING	COMPLETE	08-27-86
AUDITS AND SURVEILLANCE FOR THE TECHNICAL PARTICIPANTS	COMPLETE	09-25-86
PERFORMANCE-BASED TRAINING SYSTEM	ADOPTED	08-23-86
- TRAINING MATRIX DEVELOPMENT	COMPLETE	09-05-86
- JOB FUNCTION IDENTIFICATION	COMPLETE	12-15-86
- EXAM PREPARATION COMPLETED & DISTRIBUTED TO PERSONNEL	COMPLETE	12-20-86
INSTRUCTOR TRAINING	COMPLETE	10-22-86
DETAILED TRAINING AND EXAMINATIONS FOR IDENTIFIED JOB FUNCTIONS	TARGETED	02-01-87

# ROCKWELL BWIP TRAINING PROGRAM

- **GENERAL EMPLOYEE ORIENTATION** **COMPLETE**
  - HISTORY OF BWIP 9/13/86
  - QA ORIENTATION &
  - BUSINESS MANAGEMENT 9/15-17/86
  - PROGRAM MANAGEMENT
- **MANAGEMENT SYSTEMS PART I** **COMPLETE**
  - DOCUMENT CONTROL 9/23-26/86
  - CORRESPONDENCE CONTROL &
  - RECORD CONTROL 9/29/86
  - ACTION TRACKING CONTROL
  - SAFETY CONTROL
- **MANAGEMENT SYSTEMS PART II** **COMPLETE**
  - RESOURCES CONTROL 9/30/86
  - PROCUREMENT CONTROL &
  - COST/SCHEDULE CONTROL 10/1-3,6/86
  - SECURITY CONTROL

## **BWIP STOP WORK STATUS**

- **STOP WORK ORDER ISSUED MAY 1, 1986**
- **QUALITY AFFECTING ACTIVITIES STOPPED**
- **SOME ACTIVITIES CONTINUING - IMPRUDENT TO STOP**
- **BWI READINESS REVIEW BOARD ESTABLISHED**
- **PROJECT PARTICIPANTS REVISING PROCEDURES TO MEET BOARD AND SYSTEMS ENGINEERING REQUIREMENTS**
- **SURVEILLANCES BEING CONDUCTED ON CONTINUING ACTIVITIES**
  - **TRAINING**
  - **PROCEDURE WRITING**
  - **RECORDS**
- **RHO COMPLETED APPRAISALS OF DIRECT FUNDED CONTRACTORS - WHC, PNL, KE & M-K NOVEMBER 1986**
- **RHO INTERNAL APPRAISALS COMPLETED DECEMBER 1986**

## **BWIP STOP WORK STATUS (CONT)**

- **EXPLORATORY SHAFT DESIGN BASIS STUDY RESTARTED  
12/22/86**
- **EXPEDITED SPECIAL CASE REVIEW IN PROGRESS FOR  
RESTARTING DC 24/25 ACTIVITIES**
- **REVIEW PACKAGE FOR PARTIAL RELEASE OF THE GENERAL  
STOP WORK RECEIVED FROM ROCKWELL 1/5/85. REVIEW  
INITIATED**
- **DOE-RL AUDITS/ASSESSMENTS TO DETERMINE PROJECT  
READINESS TO RESTART STOPPED WORK, AND NEW WORK  
HAS BEGUN AND WILL CONTINUE OVER THE NEXT SEVERAL  
MONTHS**

QA PLANS STATUS REPORT

Submitted By: WMPO

As Of: 12/31/86

Note: Participant QAPPs will be under constant revision for the next year as Project QA requirements change. The participants QAPPs (equivalent to the NRC term QA Administrative Procedures) are the documents which provide the instructions to implement and apply the Project QA requirements. The Project office will approve participant QAPPs.

Major Participant	Document Identification	Rev. No.	*Status	Approval Date	Remarks
USGS	QAPP-01	3	5	10/86	A total of 33 documents make up the USGS QAPP.
Los Alamos	QAPP-01	1	3-4	-----	Previous revision to Los Alamos QAPP has been approved by WMPO.
SNL	QAPP	0	5	12/86	
SAIC	QAPP-1	3	5	12/86	
LLNL	QAPP-NWMP	0	4-5	-----	A total of 33 documents make up the LLNL QAPP. Twenty-eight have been approved for implementation. Five are in process of comment resolution.
F&S	QAPP-001	1	5	2/86	The F&S QAPP (Rev. 2) has been retracted for rewrite.
H&N	QAPP	1	5	8/86	
REEC0	568-DOC-115	4	5	12/86	

\*Status Legend

(1) Planned  
(2) Under Preparation

(3) For Comment Resolution  
(4) For Project Approval

(5) Issued for Implementation  
(6) For HQ/OGR Approval

NNWSI

IMPLEMENTING PROCEDURES DEVELOPMENT SUMMARY

Submitted By: WMPO

As Of: 1/23/87

Procedures Status	Project Office QMPs	Project Interface Procedure APs	Project Totals	Remarks
Total Required	23	29	52	
Issued for Implementation	12	7	19	All QMPs and APs are presently under revision
Approved by Project Office	12	7	19	All QMPs and APs are presently under revision
Under Review/ Comment	6	0	6	
Under Preparation	4	10	14	Sampling and Configuration Management
Not Yet Started	7	12	19	

QMP - Quality Management Procedure: An implementing procedure which identifies the control methods to meet Project QA requirements utilized by WMPO, WMPO matrix support, and QASC personnel.

AP - NNWSI Administrative Procedure: An implementing procedure which identifies the interface control methods to meet QA requirements. The control methods are those which govern Project wide systems and are implemented by all Project participants.



**NNWSI PROJECT  
FY 86 QA AUDIT STATUS REPORT**

INITIATING ORGANIZATION WMPO

QUARTER ENDING 12/31/86

ORGANIZATION	AUDITS	AUDIT FINDINGS				REMARKS
		FY 86	TOTAL	QTR.		
	CO	IS	CL	OP	CL	
LLNL	1	7	3	4	0	o Violation of 4 procedures o 3 Inadequate or lack of procedures
USGS/DENVER	1	22	0	22	0	o Violation of 13 procedures o 9 Inadequate or lack of procedures
REECo	1	21	0	21	2	o Violation of 17 procedures o 4 Inadequate or lack of procedures
F & S	1	0	N/A	N/A	0	N/A
WMPO/NV	1	29	0	29	0	o Violation of 21 procedures o 8 Inadequate or lack of procedures

LEGEND

CO - COMPLETED

CL - CLOSED

IS - ISSUED

OP - OPEN

**NNWSI PROJECT**  
**FY 86 QA AUDIT SCHEDULE AND SUMMARY**

INITIATING ORGANIZATION WMPO

QUARTER ENDING 12/31/86

ORGANIZATION	LOCATION	DATE		SCOPE	RESULTS SUMMARY
		SCH'D	ACTUAL		
LLNL 86-1	Livermore, CA	2/3/86	2/4-7/86	Requirements of NVO-196-17 Implementing QA Procedures	Seven findings of nonconformance were reported.
USGS/Denver 86-2a	Denver, CO	3/10/86	3/11-14/86	" "	Twenty-two findings of nonconformance were reported.
USGS/Menlo Park 86-2b	Menlo Park, CO	3/17/86	Cancelled	" "	N/A
REECO 86-3	Las Vegas & Mercury, NV	4/14/86	4/14-18/86	" "	Twenty-one findings of nonconformance were reported.
F&S 86-4	" "	6/16/86	6/16-18/86	" "	No findings were reported.
Los Alamos 86-5	Los Alamos, NM	7/14/86	Cancelled	" "	N/A
WMPO/NV 86-6	Las Vegas, NV	9/8/86	9/8-12/86	" "	Twenty-nine findings of nonconformance were reported.
H&N	Las Vegas & Mercury, NV	8/18/86	Cancelled	" "	N/A
SNL 86-8	Albuquerque, NM	9/15/86	Cancelled	" "	N/A
SAIC/T&MSS 86-9	Las Vegas, NV	5/26/86	Cancelled	" "	N/A

FY 86 CONSOLIDATED AUDIT FINDING

- o LACK OF ADEQUATE MANPOWER STAFFING IN QA OPERATIONS ORGANIZATIONS.
- o LACK OF KNOWLEDGE/UNDERSTANDING OF QUALITY ASSURANCE AS A DISCIPLINE AND THE PURPOSE OF A QUALITY ASSURANCE PROGRAM AND ITS REQUIREMENTS BY MANY PEOPLE IN THE NNWSI PROGRAM PARTICULARLY IN THE SCIENTIFIC DISCIPLINES.
- o LACK OF TRAINING AND INDOCTRINATION OF PERSONNEL IN NNWSI QUALITY ASSURANCE REQUIREMENTS.
- o LACK OF AND INADEQUATE IMPLEMENTING PROCEDURES.
- o WORKING WITHOUT WMPO APPROVED QA LEVEL ASSIGNMENTS.
- o INADEQUATE PRACTICES FOR CALIBRATION OF MEASURING AND TEST EQUIPMENT (TRACEABILITY TO NBS).
- o MINIMUM OR LACK OF AUDITS AND SURVEILLANCES OF SUPPLIERS/CONTRACTORS AND INTERNAL ACTIVITIES.
- o ABSENCE OF IMPLEMENTATION OF CORRECTIVE ACTION PROGRAMS TO IDENTIFY NEED FOR CORRECTION OF REPETITIVE PROBLEMS.
- o INADEQUATE DOCUMENTATION (TRACEABILITY) OF TECHNICAL REVIEWS.

**NNWSI PROJECT**  
**FY 87 QA AUDIT SCHEDULE AND SUMMARY**

INITIATING ORGANIZATION WMPO

QUARTER ENDING 12/31/86

ORGANIZATION	LOCATION	DATE		SCOPE	RESULTS SUMMARY
		* SCHED.	ACTUAL		
LOS ALAMOS	Los Alamos, NM	March		NVO-196-17 & Los Alamos QAPP	
H&N	Las Vegas & Mercury, NV	April		NVO-196-17, H&N QAPP	
LLNL	Livermore, CA	April		NVO-196-17, LLNL QAPP	
SAIC/T&MSS	Las Vegas, NV	May		NVO-196-17, SAIC QAPP	
SNL	Albuquerque, NM	May		NVO-196-17, SNL QAPP	
USGS	Denver, CO	June		NVO-196-17, USGS QAPP	
USGS	Menlo Park	June		NVO-196-17, USGS QAPP	
F&S	Tulsa, OK	July		NVO-196-17, F&S QAPP	
F&S	Las Vegas, NV	July		NVO-196-17, F&S QAPP	
REECO	Las Vegas & Mercury, NV	August		NVO-196-17, REECO QAPP	
WMPO	Las Vegas, NV	September		NVO-196-18	

\*Firm dates will be coordinated and issued in audit notification letter 30 days prior to audit.

**NNWSI PROJECT  
FY 86 QA SURVEILLANCE STATUS REPORT**

INITIATING ORGANIZATION WMPO

QUARTER ENDING 12/31/86

ORGANIZATION	SURVEILLANCES	NONCONFORMANCE REPORTS				REMARKS
		TOTAL			QTR.	
		IS	CL	OP	CL	
REECo	10	7	4	3	1	
USGS	19	12	0	12	0	
SNL	8	4	4	0	4	
SAIC	5	6	1	5	1	
LLNL	4	5	0	5	0	
H&N	4	0	0	0	0	
F&S	3	1	0	1	0	
Los Alamos	2	1	0	1	0	
WMPO	2	2	1	1	1	
WEC	1	0	0	0	0	

LEGEND

CO - COMPLETED  
IS - ISSUED

CL - CLOSED  
OP - OPEN

**NNWSI PROJECT  
FY 87 QA SURVEILLANCE STATUS REPORT**

INITIATING ORGANIZATION WMPO

QUARTER ENDING 12/31/86

ORGANIZATION	SURVEILLANCES			NONCONFORMANCE REPORTS					REMARKS
	FISCAL YEAR		QTR.	FISCAL YEAR			QTR.		
	PL	CO	CO	IS	CL	OP	IS	CL	
REECo	7	3	3	0					
USGS	13	0	0	0					
SNL	7	1	1	0					
SAIC	7	1	1	0					
LLNL	7	0	0	0					
H & N	9	0	0	0					
F & S	8	1	1	0					
Los Alamos	6	0	0	0					
WMPO	6	0	0	0					
NTS/G TUNNEL	14	0	0	0					

LEGEND

PL - PLANNED

IS - ISSUED

CL - CLOSED

CO - COMPLETED

OP - OPEN

FIRST QUARTER SURVEILLANCE AREAS

- o PREPAREDNESS FOR ESF DESIGN EFFORT
- o VERIFICATION OF IMPLEMENTATION OF CORRECTIVE ACTION FOR AUDIT AND SURVEILLANCE FINDINGS AT REECO,  
SNL, AND SAIC/WMPO
- o TRAINING

USGS STOP WORK ORDER STATUS

ISSUED: APRIL 28, 1986, RESULT OF WMPO AUDIT 86-2 AND SURVEILLANCE 86-23

CONDITIONS TO RESUME WORK:

- o PROPOSED CORRECTIVE ACTIONS AND SCHEDULES FOR COMPLETION OF AUDIT FINDINGS APPROVED BY WMPO.
- o QAPP REVISED AND APPROVED BY WMPO.
- o INDOCTRINATION AND TRAINING COMPLETE.
- o PLAN TO PROVIDE ADEQUATE QA COVERAGE.
- o ASSIGNMENT OF QA LEVELS COMPLETED AND APPROVED BY WMPO.

STATUS:

- o USGS PROPOSED AUDIT FINDING CORRECTIVE ACTIONS WERE SUBMITTED TO WMPO IN AUGUST 1986.
  - SIXTEEN (16) OF THE TWENTY TWO (22) WERE APPROVED BY WMPO IN OCTOBER 1986.
  - REMAINING SIX (6) RESPONSES ARE STILL UNSATISFACTORY. THEY WERE DISCUSSED AT A NOVEMBER 1986 MEETING BETWEEN WMPO AND USGS AND REQUIRE A REVISED RESPONSE FROM USGS.
- o THE REVISED USGS QAPP WAS SUBMITTED TO WMPO ON JULY 17, 1986. WMPO APPROVAL WAS GIVEN ON OCTOBER 27, 1986 AFTER RESOLUTION OF COMMENTS.
- o INITIAL INDOCTRINATION AND TRAINING OF USGS PERSONNEL ON THE USGS QAPP IS ONGOING. ADDITIONAL TRAINING IS EXPECTED TO START JANUARY 1987.
- o NO QA RESOURCE PLAN SUBMITTED TO WMPO, AS REQUESTED.
- o AWAITING USGS SUBMITTAL OF THIRTY EIGHT (38) SCIENTIFIC INVESTIGATION PLANS (SIPs) ON CURRENT ACTIVITIES FOR WMPO APPROVAL. (FOUR (4) SIPs HAVE BEEN SUBMITTED IN DECEMBER FOR AN INFORMAL REVIEW. REVIEW MEETINGS ARE SCHEDULED FOR JANUARY 1987.)



SNL STOP WORK ORDER STATUS

ISSUED: JUNE 10, 1986, AS A RESULT OF SURVEILLANCE 86-024.

CONDITIONS TO RESUME WORK:

- o WMPO APPROVAL OF THE SNL QAPP
- o ASSIGNMENT OF QA LEVELS COMPLETE AND APPROVED BY WMPO

STATUS:

- o WMPO HAS REVIEWED AND ACCEPTED THE SNL QAPP FOR USE ON NNWSI ACTIVITIES IN DECEMBER 1986.
- o ALL CURRENT SNL ACTIVITIES HAVE APPROVED SIPs (39) AND ASSOCIATED QA LEVELS.
- o SNL STOP WORK ORDER WAS RESCINDED DECEMBER 1986.

SAIC/LANL/LLNL STOP WORK ORDER STATUS

ISSUED: JUNE 10, 1986, AS A RESULT OF WMPO SURVEILLANCE 86-26, 86-25, AND 86-21.

CONDITION TO RESUME WORK:

- o ASSIGNMENT OF QA LEVELS COMPLETE AND APPROVED BY WMPO.

STATUS:

SAIC:

- o QA LEVELS ASSOCIATED WITH FOURTEEN (14) TASKS HAS BEEN APPROVED BY WMPO. WORK IS AUTHORIZED TO PROCEED.
- o QA LEVELS ASSOCIATED WITH FOUR (4) TASKS ARE AT WMPO FOR REVIEW.

LOS ALAMOS:

- o THIRTEEN (13) SIPs HAVE BEEN APPROVED BY WMPO, COMPLETING THE CURRENT FY ACTIVITIES
- o STOP WORK ORDER FOR CURRENT LANL ACTIVITIES IS LIFTED.

LLNL:

- o FIVE (5) SIPs HAVE BEEN APPROVED BY WMPO. WORK IS AUTHORIZED TO PROCEED.
- o THERE ARE FIVE (5) SIPs REMAINING WHICH REQUIRE SUBMITTAL FOR WMPO APPROVAL.

REEC<sub>o</sub> STOP WORK ORDER STATUS

ISSUED: JULY 7, 1986, AS A RESULT OF WMPO AUDIT 86-3.

CONDITIONS TO RESUME WORK:

- o WMPO APPROVAL OF PROPOSED AUDIT FINDING CORRECTIVE ACTIONS
- o WMPO APPROVAL OF THE REEC<sub>o</sub> QAPP
- o COMPLETION OF INDOCTRINATION AND TRAINING OF REEC<sub>o</sub> PERSONNEL

STATUS:

- o ALL PROPOSED CORRECTIVE ACTIONS WERE SUBMITTED TO WMPO AND APPROVED AFTER COMMENT RESOLUTION.
- o THE REEC<sub>o</sub> QAPP WAS SUBMITTED TO WMPO AND APPROVED FOR USE ON THE NNWSI ACTIVITIES ON DECEMBER 17, 1986.
- o COMPLETION OF INITIAL INDOCTRINATION AND TRAINING OF REEC<sub>o</sub> PERSONNEL ON THE REEC<sub>o</sub> QAPP WAS VERIFIED IN DECEMBER 1986.
- o REEC<sub>o</sub> STOP WORK ORDER WAS RESCINDED IN JANUARY 1987.

**NNWSI PROJECT  
CAR STATUS REPORT  
(CORRECTIVE ACTION REQUESTS)**

INITIATING ORGANIZATION WMPO

QUARTER ENDING 12/31/86

ORGANIZATION	FY 86				FY 87				REMARKS
	TOTAL			QTR. CL	TOTAL			QTR. CL	
	IS	CL	OP		IS	CL	OP		
WMPO	3	0	3	1					
SAIC					1	0	1	0	

LEGEND

CO - COMPLETED

CL - CLOSED

IS - ISSUED

OP - OPEN

FY 86 CORRECTIVE ACTION REQUESTS (CAR)

- o INADEQUATE CORE SAMPLE CONTROL
- o LACK OF PROCEDURE FOR INTERFACE CONTROL
- o INADEQUATE MAINTENANCE OF NCR LOG AND NCR FILES

FY 87 CORRECTIVE ACTION REQUESTS (CAR)

- o INADEQUATE TEST PROCEDURE

## SRPO QA PROGRAM STATUS

JANUARY 23, 1987

1. QA PLAN

Revision 1 of the SRPO Quality Assurance Plan has been approved by the Project Manager and was sent to OGR for approval 12/05/86. This revision incorporates OGR and DOE-CH comments, SRPO organization changes, OCRWM requirements and editorial corrections.

2. QA PROCEDURES

- OGR has approved twenty-one (21) new or revised SRPO Quality Assurance Administrative Procedures for issuance and use.
- Three (3) new QAAP's have been approved for interim use and have been submitted to OGR for approval.
- Four (4) new QAAP's and one revised QAAP are in the preparation and review cycle.

3. TRAINING

Training on the QA Plan and on Administrative Procedures is required within 30 days after the documents have been issued.

- Administrative Procedures - The training for the twenty-two (22) new or revised procedures has been completed.
- Two sessions of the SRP Lead Auditor Training course have been presented since October 1986. A third session is being planned for March or April.
- A "Fundamentals of Auditing" course is being planned for February 1987 for personnel having little audit experience.
- Training Files - Reviewing legal requirements associated with personnel training files and DOE/CH support capabilities regarding SRPO training information.

4. STAFFING

- SRPO QA Staff - DOE Manager, one (1) QA Specialist and five (5) - contractor QA Specialists. A search has been initiated for a sixth contractor QA Specialist.

5. IMPLEMENTATION

- Three (3) internal surveillances and four (4) external surveillances have been performed since June.
- Three (3) audits of SRPO activities have been performed by DOE-CH.

6. READINESS FOR NRC AUDIT

- It is expected that SRPO will be prepared for an NRC Audit during the fourth quarter of FY 87. This timing is dependent on completion of the Administrative Procedures, training of SRPO staff, internal surveillances and audits by the SRPO QA organization, and an audit by DOE-HQ. It is planned that sixty (60) days after completion of those activities DOE-HQ can be notified that the SRPO is prepared for an NRC audit.
- Organizations and activities provided to OGR as being ready for an NRC "Mini" audit:
  - TBEG - Sample Storage Facility
  - ONWI - Technical Reviews/QA Department
  - PB/PB-K&B - Whole program
  - PNL - Waste package laboratory work
  - ANL - Technical and Peer Reviews