

NNWSI AUDIT PLAN 87-1

1.0 SCOPE

The purpose of the audit is to evaluate the effectiveness of the Los Alamos National Laboratory Quality Assurance Program and implementing procedures with respect to the requirements of NNWSI NVO-196-17, Rev. 4, and to verify the implementation of the Quality Assurance Program as it relates to activities on the NNWSI Project.

2.0 ORGANIZATION TO BE AUDITED

Los Alamos National Laboratory (Los Alamos)

3.0 AUDIT SCHEDULE

- o Pre-Audit Team Meeting: 9:00 a.m., 3/27/87 - Las Vegas
- o Pre-Audit Conference: 10:00 a.m., 3/30/87 - Los Alamos
- o Audit Activities: 3/30/87 - 4/3/87
- o Post-Audit Conference: 10:00 a.m., 4/3/87 - Los Alamos

4.0 REQUIREMENTS TO BE AUDITED

The requirements to be audited are stated in the checklists which were generated from the following documents:

- o NNWSI NVO-196-17, Rev. 4, and NNWSI-SOP-02-01, Rev. 1
- o Los Alamos QAPP, Rev. 1, and the following applicable procedures:
  - TWS-MSTQA-QP-03, Rev. 6
  - TWS-MSTQA-QP-04, Rev. 2
  - TWS-MSTQA-QP-06, Rev. 2
  - TWS-QAS-QP-07, Rev. 2
  - TWS-MSTQA-QP-08, Rev. 3
  - TWS-MSTQA-QP-10, Rev. 0
  - TWS-MSTQA-QP-11, Rev. 1
  - TWS-MSTQA-QP-12, Rev. 0
  - TWS-MSTQA-QP-14, Rev. 1
  - TWS-MSTQA-QP-15, Rev. 0
  - TWS-MSTQA-QP-16, Rev. 0
  - TWS-QAS-QP-17, Rev. 0
  - TWS-MSTQA-QP-18, Rev. 1
  - TWS-MSTQA-QP-19, Rev. 0
  - TWS-QAS-QP-20, Rev. 0
  - TWS-QAS-QP-21, Rev. 0
  - TWS-QAS-QP-22, Rev. 0

- o Technical activities listed in Section 5.0 and the following applicable procedures:

- TWS-ESS-DP-01, Rev. 2
- TWS-ESS-DP-03, Rev. 2
- TWS-ESS-DP-04, Rev. 4
- TWS-ESS-DP-06, Rev. 2
- TWS-ESS-DP-07, Rev. 2
- TWS-ESS-DP-24, Rev. 0
- TWS-ESS-DP-25, Rev. 1
- TWS-ESS-DP-28, Rev. 0
- TWS-ESS-DP-50, Rev. 0
- TWS-ESS-DP-51, Rev. 0
- TWS-ESS-DP-52, Rev. 0
- TWS-ESS-DP-53, Rev. 0
- TWS-ESS-DP-54, Rev. 0
- TWS-ESS-DP-55, Rev. 0
- TWS-ESS-DP-56, Rev. 0
- TWS-INC-DP-02, Rev. 3
- TWS-CNC-DP-05, Rev. 1
- TWS-INC-DP-30, Rev. 0
- TWS-INC-DP-35, Rev. 0

#### 5.0 ACTIVITIES TO BE AUDITED

- o Programmatic Areas - Quality Assurance Elements 1.0, 2.0, 3.0, 4.0, 5.0, 6.0, 7.0, 10.0, 11.0, 12.0, 13.0, 15.0, 16.0, and 18.0
- o Mineralogy/Petrology - WBS Element 1.2.3.4.2.A
- o Sorption and Precipitation - WBS Element 1.2.3.4.1.5.A
- o Solubility Determination - WBS Element 1.2.3.4.1.4.A

#### 6.0 AUDIT TEAM MEMBERS

J. W. Estella	Lead Auditor	SAIC, Las Vegas
C. M. Thompson	Auditor	SAIC, Las Vegas
W. R. Kazor	Auditor	SAIC, Las Vegas
J. M. Gromer	Auditor	SAIC, Las Vegas
F. D. Peters	Auditor	SAIC, Las Vegas
Gerard Heaney	Auditor	SAIC, Las Vegas
S. R. Mattson	Technical Specialist	SAIC, Las Vegas
Dean Eppler	Technical Specialist	SAIC, Las Vegas
Dow Davidson	Technical Specialist	SAIC, Las Vegas
D. C. Newton	Auditor	DOE/HQ
J. R. Rinaldi	Observer	DOE/QAD
P. T. Prestholt	Observer	NRC/NV
Paul Bemba	Observer	NRC/HQ

7.0 AUDIT CHECKLIST NUMBERS

87-1-1 Programmatic Checklist

87-1-2 Technical Activities Checklist

Prepared By: John W. Estella Date: 3/26/87  
SAIC/QASC

Approved By: Walter R. Ligon Date: 3/26/87  
Manager, Audits & Surveillances

Approved By: James Blaylock Date: 3/26/87  
WMPO/PQM

Distribution:

V. J. Cassella, DOE/HQ  
D. C. Newton, DOE/HQ  
Henry Nunes, Los Alamos  
P. R. Guthals, Los Alamos  
S. H. Klein, SAIC  
W. R. Kazor, SAIC  
P. T. Prestholt, NRC/LV  
H. E. Valencia, LAAO  
L. W. Gage, OED, AL  
S. J. Guidice, OED, AL  
A. L. Gonzales, MSD, AL  
R. W. Gray, MED, NV  
J. R. Rinaldi, QAD, NV  
James Blaylock, WMPO, NV

OFFICIAL CONCURRENCE AND DISTRIBUTION RECORD

MEMORANDUM FOR: David Brooks, Acting Section Leader  
 Geochemistry Section  
 Technical Review Branch

FROM: Paul J. Bembia  
 Geochemistry Section

SUBJECT: Trip Report for the DOE Waste Management Project Office  
 Quality Assurance Audit of Los Alamos National Laboratory  
 Support of the Nevada Nuclear Waste Storage Investigation  
 Project, Los Alamos, NM, March 30 - April 3, 1987.

DATE: 87/04/14

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CONCURRENCES

ORGANIZATION/CONCUREE	INITIALS	DATE CONCURRED
HLWM/PJBembia	<u>PJB</u>	87/04/14

(original not received in the WMDCC)

4/15/87 10:50

Date 4 Time