



Department of Energy

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86-QSB-161

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1986  
WM Record File  
101.7

WM Project 10  
Docket No. \_\_\_\_\_  
PDR   
LPDR

Director  
Pacific Northwest Laboratory  
Richland, Washington

Distribution:  
Linehan  
Hildenbrand  
Kennedy  
Riddle RDM  
Bilhorn  
Delligatti  
H. Miller

Dear Sir:

DOE/RL QUALITY ASSURANCE AUDIT 8701, BASALT WASTE ISOLATION PROJECT (BWIP) AND ENVIRONMENTAL STUDIES PROGRAM, JANUARY 5-8, 1987

A DOE/RL Quality Assurance audit of Pacific Northwest Laboratory's (PNL) Environmental Studies Program and Basalt Waste Isolation Project, is planned for January 5-8, 1987. The scope of Audit 8701 is provided in Attachment A and will address QA Program elements as applicable to the specific project tasks described in the Statements of Work and Work Orders. Attachment B is a tentative schedule for the audit activities.

The entrance meeting is scheduled for 3:00 p.m., January 5, 1987, in the Sigma I Conference Room (Omega Room). The exit meeting is tentatively planned for 3:00 p.m., January 8, 1987, in the same Omega Room. Planning has been coordinated with your Mr. Cecil Hughey.

The Audit Team Leader, Mr. C. A. Smirolfo, will be contacting Mr. Hughey and Mr. T. L. Page next week to arrange for the availability of the PNL personnel involved in the audit.

Any questions regarding this audit may be directed to Mr. J. H. Rusk on 6-9313 or Mr. C. A. Smirolfo on 6-9902.

Sincerely,

*R. P. Saget*

R. P. Saget, Director  
Quality Systems Division

MAC:CAS  
QA09K6.03

Attachment

cc: See Page 2

8612220109 861203  
PDR WASTE  
WM-10 PDR

2221

cc's for Letter No. 86-QSB-161, dated December 3, 1986

cc w/attach:

D. C. Gibbs, Rockwell  
J. P. Knight, DOE-HQ  
D. C. Newton, DOE-HQ  
J. J. Linehan, NRC  
L. B. Ibe, Weston  
T. Husseman, Washington State  
Department of Ecology  
D. Stewart-Smith, Oregon State  
Department of Energy  
B. Burke, CTUIR  
R. Halfmoon, Nez Perce Tribe  
R. Jim, Yakima Indian Nation

bcc: QSD Record Cy, w/attach.  
QSD Rdg File, w/o attach.  
AMC Rdg File, w/o attach.  
MAC Project File, w/attach.  
MAC Reading File, w/o attach.  
MAC/QA Reading File, w/attach.  
BRMC, w/attach.  
DCC, w/o attach.  
D. H. Dahlem, BWI, w/attach.  
R. A. Holten, BWI, w/attach.  
J. J. Keating, BWI, w/o attach.  
M. J. Plahuta, SMD, w/attach.  
J. H. Rusk, MAC, w/attach.  
C. A. Smirolodo, MAC, w/attach.

ATTACHMENT A

Attachment to Letter 86-QSB-161

PROJECT TASKS	NUMBER	AUDITOR	TECH ADVISOR
TOTAL SYSTEM PERFORMANCE ASSESSMENT	L1E	Smiraldo/Newby	Knepp
Verification and Benchmark Codes	L1E2		Knepp
WASTE FORM AND MATERIALS TESTING	L2D	Marcella/Bohn	Furman
Enviromechanical Study	L2D2R		Lamont
Solubility/Sorption Studies	L2D3P/ L3E2B		Furman
Hydrotherm Mat'l Testing	L2D4P		Furman
EH/PH Probe	L2D4R		Furman
DESIGN, FABRICATE AND PROTOTYPE TESTING	L2E	Williams/Penchansky	Lamont
Design Work Packing Development Testing	L2E2T/ 2G3T		Lamont
WASTE PACKAGE PERFORMANCE ASSESSMENT	L2F	Hedzik/Kasch	Lamont
Geothermal Code Evaluation and Application	L2F1CR		Lamont/Knepp
Impact Stress and Fracture Mechanics Study	L2F1P/ L2G4P		Lamont
PACKING MATERIALS	L2G	Hedzik/Kasch	Lamont
HYDROLOGY	L3D	O'Brien/Litz	Thompson
Minimal Reqs Hydro Work Group	L3D1A		Thompson
Gravity & Density Effect Deep Borehole	L3D1C		Lassila
GEOCHEMISTRY	L3E	O'Brien/Welsch	Furman
Work Received As Needed Via Work Order	L3E1		Furman
Two Projects for Similar Analyses and Virtually the Same QA Reqs	L3E2A/ L2D3R		Furman
U/TH Disequilibrium	L3E2C		Furman
ENVIRONMENTAL STUDIES PROGRAM	L3G/L3H	Subramanian	Whitfield
MANAGEMENT AND INTEGRATION	L9A	Marcella/Hoe	----
PROJECT CONTROL	L9C	Marcella/Hoe	----
QUALITY ASSURANCE	L9D	Sandall/Moist	----
OTHERS	Work Orders	Smiraldo/Newby	Lassila
Well Logging	WO CD 6824		Lassila
Statistical Analysis	WO CD 5854		Lassila

ATTACHMENT B

Attachment to Letter 86-OSB-161

PNL AUDIT TEAM ASSIGNMENTS

TEAM	MEMBERS	TASK
A	Smiraldo, Newby, Knepp	L1E2
B	Marcella, Hoe	L9A
C	Marcella, Bohn, Furman	L2D4P L2D3P/L3E2B L2D4R
D	Marcella, Bohn, Lamont	L2D2R
E	Williams, Penchansky, Lamont	L2E2T/2G3T
F	Hedzik, Kasch, Lamont	L2G L2FICR L2F1P/2G4P
G	O'Brien, Litz, Thompson	L3D1A
H	O'Brien, Litz, Lassila	L3D1C
I	O'Brien, Welsch, Furman	L3E1 L3E2A/2D3R L3E2C
J	Marcella, Hoe	L9C
K	Sandall, Moist	L9D
L	Smiraldo, Newby, Lassila	Work Orders
M	Subramanian, Whitfield	

ATTACHMENT B

Attachment to Letter 86-OSB-161

SCHEDULE OF PNL AUDIT ACTIVITIES

1/5, Monday, Day 1

3:00 Entrance Meeting

1/6, Tuesday, Day 2

8:00 - 8:30 Audit Team Caucus

8:30 - 12:00 1E 2D 2E 3D 9C 9D  
Team A Team C Team E Team G Team J Team K

1:00 - 3:30 2D 2E 3D 9C 9D  
Team C Team E Team H Team J Team K

3:30 - 4:30 Audit Team Caucus

1/7, Wednesday, Day 3

8:00 - 8:30 Audit Team Caucus

8:30 - 12:00 9A 2F 3E Work Order 3G 9D  
Team B Team F Team I Team L Team M Team K

1:00 - 3:30 9A 2G 3E 3G 9D  
Team B Team F Team I Team M Team K

3:30 - 4:30 Audit Team Caucus

1/8, Thursday, Day 4

8:00 - 12:00 2D Finish up auditing/prepare audit findings  
Team D

1:00 - 3:00 Audit Team Caucus

3:00 Exit Interview