



Department of Energy
Office of Civilian Radioactive Waste Management QA: L
Yucca Mountain Site Characterization Office
P.O. Box 98608
Las Vegas, NV 89193-8608

SEP 12 1994

Daniel L. Koss
Technical Project Officer
for Yucca Mountain
Site Characterization Project
Reynolds Electrical & Engineering Co., Inc.
P.O. Box 98521
Las Vegas, NV 89193-8521

ISSUANCE OF SURVEILLANCE RECORD YMP-SR-94-050 RESULTING FROM
YUCCA MOUNTAIN QUALITY ASSURANCE DIVISION (YMQAD) SURVEILLANCE OF
REYNOLDS ELECTRICAL AND ENGINEERING COMPANY, INC. (REECO)
(SCPB: N/A)

Enclosed is the record of Surveillance YMP-SR-94-050 conducted by
the YMQAD at the REECO facilities at the Exploratory Studies
Facility Pad, Yucca Mountain Site, Nevada, on July 31, 1994.

The purpose of the surveillance was to verify that the record
deficiencies in Shotcrete Placement Logs and Starter Tunnel Drill
and Blast Logs, identified on REECO Deficiency Notices 94-017 and
94-021, have been corrected.

No Corrective Action Requests were issued as a result of this
surveillance. This surveillance is considered completed and
closed as of the date of this letter. A response to this
surveillance record and any documented recommendations is not
required.

If you have any questions, please contact either Robert B.
Constable at 794-7945 or John F. Pelletier at (702) 794-7538.

Robert B. Constable for

YMQAD:RBC-5008

Richard E. Spence, Acting Director
Yucca Mountain Quality Assurance Division

Enclosure:
Surveillance Record YMP-SR-94-050

YMP-5

100016
9409200357 940912
PDR WASTE
WM-11 PDR

102.7
WM-11
NH23

SEP 12 1994

cc w/encl:

D. A. Dreyfus, HQ (RW-1) FORS
R. W. Clark, HQ (RW-3.1) FORS
C. J. Henkel, NEI, Washington, DC
W. L. Belke, NRC, Las Vegas, NV
R. L. Johnson, NRC, Washington, DC
R. R. Loux, NWPO, Carson City, NV
Cyril Schank, Churchill County Commission, Fallon, NV
D. A. Bechtel, Clark County Comprehensive, Las Vegas, NV
J. D. Hoffman, Esmeralda County, Goldfield, NV
Eureka County Board of Commissioners,
Yucca Mountain Information Office, Eureka, NV
Lander County Board of Commissioners, Battle Mountain, NV
Jason Pitts, Lincoln County, Pioche, NV
V. E. Poe, Mineral County, Hawthorne, NV
P. A. Niedzielski-Eichner, Nye County, Chantilly, VA
L. W. Bradshaw, Nye County, Tonopah, NV
William Offutt, Nye County, Tonopah, NV
Florindo Mariani, White Pine County, Ely, NV
B. R. Mettam, County of Inyo, Independence, CA
Mifflin and Associates, Las Vegas, NV
S. L. Bolivar, LANL, Los Alamos, NM
R. E. Monks, LLNL, Livermore, CA
W. J. Glasser, REECO, Las Vegas, NV
R. R. Richards, SNL, Albuquerque, NM, M/S 1333
R. P. Ruth, M&O/Duke, Las Vegas, NV
T. H. Chaney, USGS, Denver, CO
K. B. Johnson, SAIC, Las Vegas, NV
C. K. Van House, QATSS/SAIC, Las Vegas, NV
R. L. Maudlin, QATSS/CER, Las Vegas, NV

OFFICE OF
 RADIOACTIVE WASTE MANAGEMENT
 U.S. DEPARTMENT OF ENERGY
 WASHINGTON, D.C.

QUALITY ASSURANCE SURVEILLANCE RECORD

SURVEILLANCE DATA

¹ORGANIZATION/LOCATION:
 Reynolds Electrical and
 Engineering Company, Inc.
 (REECo), Exploratory Studies
 Facility (ESF), Yucca Mountain
 Site, Nevada

²SUBJECT:
 Starter Tunnel Construction Records

³DATE: 7/31-8/12/94

⁴SURVEILLANCE OBJECTIVE:
 To verify that the record deficiencies in Shotcrete Placement Logs and Starter Tunnel Drill and Blast Logs, identified on REECo Deficiency Notices (DNs) 94-017 and 94-021 have been corrected.

⁵SURVEILLANCE SCOPE:
 Records generated by REECo construction procedures, specifically TC-581-SP-0007, Revision 2, "Starter Tunnel Shotcrete" and TC-581-WP-003, Revision 1, "Drill and Blast for Underground Construction Activities."

⁶SURVEILLANCE TEAM:
 Team Leader:
John F. Pelletier
 Additional Team Members:
N/A

⁷PREPARED BY:
John F. Pelletier
 Surveillance Team Leader
7/28/94
 Date

⁸CONCURRENCE:
N/A
 QA Division Director
 Date

SURVEILLANCE RESULTS

⁹BASIS OF EVALUATION/DESCRIPTION OF OBSERVATIONS:
 Pages 2 and 3

¹⁰SURVEILLANCE CONCLUSIONS:
 Page 3

¹¹COMPLETED BY:
John F. Pelletier
 Surveillance Team Leader
9/9/94
 Date

¹²APPROVED BY:
Robert A. Quinlan
 QA Division Director
9.12.94
 Date

The following personnel were contacted during the surveillance:

Glasser, W. J., REECo, PQAM
Hackbert, D. A., REECo, Sr. QA Specialist
Hasson, B., REECo, Sr. QA Specialist
Ruth, F., REECo, Sr. QA Specialist
Keating, J., REECo, Senior Eng.
Mortenensen, C., REECo, Eng.
Pugmire, W., REECo, QC Sect. Chief

The following Shotcrete Placement Log Sheets were Reviewed:

Date:	Shift:
5/10/93	Day
6/09/93	Swing
6/23/93	Swing
6/25/93	Swing
7/02/93	Swing
7/19/93	Day
7/21/93	Swing
7/23/93	Day
8/06/93	Swing
9/10/93	Grave
9/13/93	Day
9/16/93	Grave
9/17/93	Days
9/17/93	Grave

The following Drill And Blast Log Sheets were Reviewed:

Drill and Blast Round Number:

NPA-NS/SS-001
NPA-NS/SS-014
NPA-CB-01
NPA-NS-004
NPA-SS-005
NPA/NB/CB/SB-006
NPA/NB/CB/SB-016

NPA/CB/NB/SB-020
NPA/NB/CB/SB-021
NPA/PD-003
NPA/PD-012
NPA/PD-026

The following REECo Deficiency Notices were Reviewed:

DN-94-017
DN-94-021

The surveillance was performed from July 31 through August 12, 1994, at the ESF, Yucca Mountain Site, Nevada. This surveillance was limited to a review of Construction records and the two DNs listed above. The evaluation focused on the verification of corrective action for the DNs to insure that all the deficiencies identified were addressed and resolved before closure. Review of the Construction records provided objective evidence that deficiencies regarding improper duplicate record storage and those associated with shotcrete placement log sheets have been resolved. DN-94-017 was closed by REECo. A review of the drill and blast log sheets provided objective evidence that all the deficiencies identified on DN-94-021 have also been resolved. However, it was noted during verification of the DN that when page 1 of the drill and blast log sheet was regenerated to correct DN-94-021 deficiencies, values indicated on some log sheets were incorrect. Specifically, the total pounds of explosives used did not match the page 2, Round Configuration Drawings.

No Corrective Action Requests were issued as a result of this surveillance. However, REECo issued DN-94-068 to identify the deficiencies associated with the regeneration of the 1st page of the drill and blast log sheets.

(Block 10 Continued) SURVEILLANCE CONCLUSIONS:

The surveillance indicated that record deficiencies on shotcrete placement logs and Starter tunnel drill and blast logs identified on DNs 94-017 and 94-021 have been corrected including duplicate records storage deficiencies. However, during performance of corrective action, REECo created additional deficiencies in the drill and blast log sheets. These deficiencies are identified on REECo DN-94-068.