

Robert Johnson



# Department of Energy

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

WBS: 1.2.7.3  
QA: N/A

JUN 29 1994

William B. Simecka, Assistant Manager, for Engineering and Field Operations, YMSCO, NV

## YUCCA MOUNTAIN SITE OFFICE (YMSO) ACTIVITIES REPORT (SCP: N/A)

The following are the significant activities from June 11, 1994 through June 24, 1994:

### 1. FIELD OPERATIONS CENTER

#### A. Management and Administration

- a. Provided administration, operational, logistical support during this period to the following tours: NRC; National Federation of Press Women; Lesson Workshop; Babcock & Wilcox; Public Open House; DOE Waste Acceptance Technical Review Group; Nye County Nuclear Waste Repository Office; Study Committee and DOE Project Management Meetings.
- b. Developed outline of Training Plan for Duty Officer training course.
- c. Created map that depicts Area 25 Boreholes and Trenching activities to be used weekly during Site Manager's meeting.
- d. Processed 7 work order and 25 photographic services requests.
- e. Prepared 80 badging requests for site visits and daily field work.
- f. Issued draft B of SP 1.3, "Occurrence Reporting and Processing of Operations", for review.
- g. Provided information to UNR seismologist on 1993 blasting activities.
- h. Coordinated the photographic coverage of TBM assembly and ESF North Portal operations.
- i. Prepared and transmitted Daily Operations Reports to NORSOC, and biweekly Reports to HQ OCRWM.
- j. Provided operations, administrative, and security support to the Yucca Mountain Site Manager and his DOE staff, including support and escort of tours.
- k. Provided logistical support by issuing vehicles, first aid kits, fire extinguisher, and other necessary equipment to personnel performing field duty in the YMP area of operations.
- l. Provided operational and administrative support for Site Characterization activities in the field.
- m. Coordinated with DOE/YMSCO Institutional Affairs Office on emergency reporting requirements.
- n. Site Manager prepared and issued the Job Package Authorization Letter for JP 94-09, "Ghost Dance Fault Trenches". This was pursuant to receipt of JP with attachments and Notice to Proceed from the DOE/YMSCO Deputy Project Manager.

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WM-11

- o. Site Manager and selected staff members prepared initial WBS 1.2.7 Budget Scenario for FY 1995 for presentation to YMSCO Management, 6/20.
- p. Supported shift coverage of FOC for Area 25 activities.
- q. Provided Weekly Activity Report of YMP construction to Site Manager.

**B. Field Safety & Health**

- a. Measured air quality during trawling operations by Kiewit/PB to smooth top of right gripper assembly.
- b. Measured air quality during confine space entries into manholes PD, PA, PB, PF, PR, and PP at the ESF pad for pulling string through electrical conduits in the vaults. A Coppus blower was used to ventilate the vaults.
- c. Conducted sampling for total dust and respirable silica at the Batch Plant.
- d. Conducted illumination survey of ESF during swing shift. Four areas of inadequate lighting were identified, Kiewit/PB Safety was advised.
- d. Attend the Site Manager's Update Meeting and the Field Test Coordination Meeting held at the FOC.

**2. RAYTHEON SERVICES NEVADA, (RSN)**

**A. Field Support**

- a. Cross-sections of ST Launch Chamber.
- b. Lay-out environmental clearance SRG-3 Borehole.
- c. Support Large Block Testing, Fran Ridge.
- d. Continued Construction Control ESF.
- e. Set survey control at SGFC.
- f. As-built ESF underground utilities.
- g. Set survey control for the ESF.
- h. Continued survey check of Yucca Mountain Control.
- i. Layout SD-7 Borehole and Pad.

**B. Quality Control**

- a. Performed verification of drilling activities on SD-12.
- b. Performed verification activities at C-Well Complex Water pipeline.
- c. Performed verification activities at SD-9.
- d. Performed evaluation of RVC's as part of remedial action on CAR YM-94-022.

**3. SAMPLE MANAGEMENT FACILITY (SMG/SAIC)**

- A. Supported drilling activities on USW SD-12. Sampled and processed core to 1,003.3 feet. Currently drilling in the Lower Lithophysal Zone of the Topopah Springs Member.
- B. Supported split shift drilling activities on USW SD-9. Sampled and processed core and cuttings to 1,196.6 feet. Currently drilling in the Lower Lithophysal zone of the Topopah Springs.

- C. SMF processed core and cuttings from drilling activities. Accepted 6 soil samples collected by T&MSS Radiological/Environmental Field Programs.
- E. Created 415 specimens from core samples for analysis by Principal Investigator. Prepared and shipped specimens to USGS and LANL.
- F. Conducted various geophysical logging activities on USW NRG#7/7A.
- G. Conducted 13 sample examinations at SMF for USGS, SNL, and LANL
- H. Submitted revision to FOI 1401, "Borehole Security and Access".

4. YMP HYDROLOGIC RESEARCH FACILITY, (USGS)

- a. USGS QA on site to perform an informal surveillance of ongoing USGS field activities.

A. Geologic Studies Program

- a. Summer students started field work on the Rock Characteristics Program.
- b. Doing field work on the Mine Mountain Fault.
- c. Preparing for start of trenching across the Ghost Dance Fault on Whaleback Ridge, and repair and restoration of old trenches across the fault in Split Wash and Drillhole Wash.
- d. Performed field work on eastern flanks of Yucca Mountain and in lower Forty Mile Wash.

B. Saturated Zone

- a. Measured water level in wells UE-25 WT#3, UE-25 WT#10, UE-25 WT#11, UE-25 WT#14, UE-25b #1, USW G-3, USW H-1, J-11, J-12, J-13, UE-25 WT#12, and USW UZ-14. Data was downloaded at USW G-2, USW H-1, USW H-3, USW H-4, USW H-5, USW H-6, UE-25p #1, UE-25 WT#, UE-25 WT#3, UE-25 WT#5, UE-25 WT#10, UE-25 WT#11, and UE-25 WT#13.
- b. Worked on water testing equipment and instruments.

C. Unsaturated Zone

- a. Worked on field data transmission file server and radio modem.
- b. Collected Carbon Isotope samples at USW NRG-4
- c. Oversee repair work on packer system winch and trailer in Mercury.
- d. Repaired Gas Chromatograph, and maintain field equipment.
- e. Inspect the radial borehole cores and down hole video logs and boreholes.

5. REYNOLDS ELECTRICAL AND ENGINEERING CO., (REECo)

A. Drilling

- a. SD-12; cored to 1,020.82 feet, reamed from to 1.020.70 feet.
- b. SD-9; cored to 1,248.45 feet

**B. Logistics**

- a. Assisted in the conducting of tours which were being held during this time period.
- b. Requisitioned needed supplies and arranged for services needed in the operation of the Field Operation Center (FOC) and related facilities.

**C. Construction**

- a. Starter Tunnel
  1. Completed Invert concrete.
  2. Installed extensometers.
  3. Form, tie rebar for Stub Walls and Gripper Walls.
- b. TBM assembly
  1. Installed left side Gripper Shoe.
  2. Installed top two Gripper Cylinders.
  3. Installed top Gripper Shoe.
  4. Welded outer segments to Cutter Head (back side).
  5. Turned over Cutter Head.
  6. Continued Electrical Wiring.
  7. Excavate and shotcrete at Muck Dump.
- c. Precast Yard
  1. Poured Containment Curb.
  2. Worked on placement of select material for final grade.
- d. North Portal Pad
  1. Continued work on underground utilities.

**6. LOS ALAMOS NATIONAL LABORATORY, (LANL)**

- A. Construction at the ESF continued as Kiewit/PB completed pouring a concrete leveling slab on the invert at the ESF starter tunnel. Started installing rebar for the launch chamber and poured the first lift for the chamber.
- B. The total underground usage of tracer water by REECo is 1,832 kiloliters (483,958 gallons).
- C. SNL Field Team monitored the Multipoint Borehole Extensometer gauges and rockbolt load cells located in the ESF and Test Alcove. SNL installed the borehole pressure cells located at the intersection of the ESF. The holes to reestablish the convergence pins in the invert have been drilled.
- D. Excavation around Large Block continued, depth is now 3 meters (10 feet) from the top of the block. REECo cleaned surface of rock at dye test areas and SNL mapped the fractures. The vertical compression system was removed and LLNL mapped the top of the block. RSN surveyed the corners of the block and location of the instrument holes.
- E. USGS continued monitoring the temperature and pressure in Radial Borehole #1, #2, and #3.

**JUN 29 1994**

William B. Simecka, Assistant Manager for  
Engineering and Field Operations, YMSCO, NV

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**7. DOCUMENTS AND RECORDS CENTER, (CRWMS M & O)**

**JOB PACKAGES**

**YMP/JP94-09                      Ghost Dance Fault Trenches**

**FCR's**

**FCR 94/239                      Invert Levelling Slab Pour**  
**FCR 94/245                      Addition of Meter to SWW Line**  
**FCR 94/240                      Conduit Repair Detail and Communication Conduit Stub-Up Details**  
**FCR 94/253                      Change Distribution Piping Fitting**

**VENDOR DOCUMENTS**

**BABFAF000-01717-6300-16363-VD-01, REV. 0**  
**BABFAF000-01717-6300-16363-VD-02, REV. 0**  
**BABFAF000-01717-6300-16363-VD-03, REV. 0**  
**BABFAF000-01717-6300-16363-VD-04, REV. 0**  
**BABFAF000-01717-6300-16363-VD-05, REV. 0**  
**BABFAF000-01717-6300-16363-VD-06, REV. 0**  
**BAB000000-01717-6300-03101-VD-1, REV. 0**  
**BAB000000-01717-6300-03101-VD-2, REV. 0**  
**BAB000000-01717-6300-03101-VD-3, REV. 0**  
**BAB000000-01717-6300-03101-VD-4, REV. 0**  
**BAB000000-01717-6300-03101-VD-5, REV. 0**  
**BAB000000-01717-6300-03101-VD-6, REV. 0**  
**BAB000000-01717-6300-03101-VD-7, REV. 0**  
**BAB000000-01717-6300-03101-VD-8, REV. 0**

**WORK PROGRAMS**

**YMP/WP/93-09, REV. 2**

**DOCUMENTS ISSUED:**

**420 controlled documents**  
**- 121 FCR's**  
**- 47 WP's**  
**- 38 JP's**  
**- 214 VENDOR's**  
**77 uncontrolled documents**

**REPRODUCTION:**

**22,504 pages copied**  
**382 drawings copied**

**DTAR LOGOFF's :                      460**

**Redlined NLP-17-1 for change to align it with new YAP-17.1Q**

JUN 29 1994

8. FIELD TRAINING (SAIC)

- a. GET 1.5 Refresher Training; 19 students passed
- b. ESF Visitor Training briefing for 16 people
- c. Standard First Aid Training, 23 people attended.
- d. YMP Orientation, 11 people attended.

*Winfred A. Wilson*

Winfred A. Wilson, Site Manager for  
Assistant Manager for Engineering  
and Field Operations

YMP:WAW-94/144

cc:

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*Robert Johnson*

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LLYMP9406134  
June 27, 1994

WBS 1.2.9  
QA: N/A

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Yucca Mountain Site Characterization Office  
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SUBJECT: Yucca Mountain Project Status Report - May 1994  
SCP: N/A

Attached is the May Project Status Report for LLNL's participation in the Yucca Mountain Project.

If further information is required, please contact Carol Passos at 702-794-7511 or Jim Blink at 702-794-7157.

Sincerely,

*for*   
W.L. Clarke  
LLNL Technical Project Officer  
for YMP

WC/CP

cc: Distribution

## DISCLAIMER

The LLNL Yucca Mountain Project cautions that any information is preliminary and subject to change as further analyses are performed or as an enlarged and perhaps more representative data base is accumulated. These data and interpretations should be used accordingly.



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