



Department of Energy
Office of Civilian Radioactive Waste Management
Yucca Mountain Site Characterization Office
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WBS: 1.2.7.3
QA: N/A

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**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 May 14, 1994 through May 27, 1994:

1. FIELD OPERATIONS CENTER

A. Management and Administration

- a. Provided administration, operational, logistical support during this period to the following tours: Active Adult Tours; David Leslie; White Pine County; Western High School; Nye Co. Nuclear Waste; Public Open House; American Society for Quality Control Conference; Dan Dreyfus; Brinley Middle School; Andra; Meadow School; Study Committee; Garrett Middle School; International High-Level Radioactive Waste Management Conference.
- b. Received and imported data on Central Support Facility for new GIS System.
- c. Initiated inventory of hand held radios, supporting REECo Property Management.
- d. Processed 12 work order and 41 photographic services requests.
- e. Prepared 70 badging requests for site visits and daily field work.
- f. Continued revision of Duty Officer Handbook and working with T&MSS Training to develop Duty Officer training course.
- g. Reviewed ORPS Reports to assure compliance with current requirements.
- 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. Investigated power outage and small brush fire caused by lightning strike.
- n. Site Manager chaired a meeting on May 26, 1994 at FOC Training Room, E-105 with the users/occupants of Building 4015 to discuss the current and future space allocations and reassignment of Project participants occupying this facility.

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- o. Published FOI 1303, "Verbal Communications Documentation".
- p. Provided building evacuation maps to support hazardous waste accumulation area plans.
- q. Coordinated with REECo on the construction of the ramp/stairs for the visitor area near the ESF pad to assure Safety requirements are met.
- r. Received and imported data on Central Support Facility from EG&G for new GIS System.
- s. Demonstrated GIS System for HQ Personnel and ISD Manager.
- t. Reviewed open Environmental Surveillance Reports.
- u. Supported shift coverage of FOC for Area 25 activities.
- v. Provided Weekly Activity Report of YMP construction to Site Manager.
- w. Shuttled GSA vehicles between Area 25 and Las Vegas for performance of required maintenance.
- x. Accompanied JCWSI photographic personnel on visits to YMP field locations for photographic support of field work.
- y. Site prepared and issue a letter of Work Authorization to USGS for gravity and magnetic studies at Yucca Mountain Crest and vicinity. The study will be performed under Work Breakdown structure 1.2.3.2.2.1.1.2.
- z. Site Manager submitted to the Assistant Manager for Engineering & Field Operations, a detailed cost breakdown of public outreach tours for YMSCO. The Cost breakdown highlighted in detail the charges normally incurred for the "three" types of tours that are usually conducted: i.e. weekday tour (40-guests); week day Open House Public Tour (300-guests) and Saturday Open House Public Tour (300-guests and support personnel).
- aa. The Site Manager and selected members of his staff are evaluating and performing a value engineering analysis to determine the condition and suitability of four Tonopah Trailer Units complex for refurbishing and set-up in the ESF north portal pad or its location to an area immediately north of the Yucca Mountain Site Office, Building 4015.

B. Field Safety & Health

- a. Measured air quality, noise, and dust levels during a confined space entry into the drum of an 8-yard International Harvester Paystar 5000 Transit Mix Truck, NS 81703, for removing dry cement cake using a 25-lb hand chipper. This operation occurred at the Area 25 Batch on H Road. Proper PPE was worn including double hearing protection.
- b. Measured air quality during confine space entries into three manholes (CF, CE, and CK) at the ESF pad for pulling string thru electrical conduits in the vaults. A Coppus blower was used to ventilate the vaults. One vault, CK, had a dead rodent, a kangaroo rat, which was removed using special precautions outlined in REECo Distribution B letter from A. H. Burlingame, ES&H Division Manager.
- c. Completed reading the "Guidebook for Interactions between the DOE and NRC."

- 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. As-built Borehole USW UZN-85 collar.
- b. Lay-out of Environmental for subsurface wastewater at ESF.
- c. Lay-out of Borehole and Environmental Clearance for SRG-4.
- d. Continued Construction Control ESF.
- e. Layout of grade at Fran Ridge Large Block Experiment.
- f. As-built the North Portal and Box Cut.
- g. As-built the ESF utilities.
- h. Continued survey check of Yucca Mountain Control.
- i. As-built borehole SD-9 collar.
- j. Layout of Spreading Basin for Drainage Piping of C-Well Complex.

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 UZ-14.
- d. Performed verification activities at SD-9.
- e. Performed verification activities at UZ-7.
- f. Performed verification geophysical logging activities at NRG-7/7A, NRG-2C, & NRG-2D.

3. SAMPLE MANAGEMENT FACILITY (SMG/SAIC)

- A. Supported drilling activities on USW SD-12. Sampled and processed core from 720.6' to 760.8' (period of 5/19-5/25); planned depth is 2300.0'. Currently drilling in the Middle Lithophysical Zone of the Topopah Springs.
- B. Supported drilling activities on USW SD-9. Sampled and processed core and cuttings from 10.0' to 53.7' (period of 5/26). Planned depth is 2120.0'. Currently drilling in the Tiva Canyon Unit.
- C. Conducted two core examinations at the Sample Management Facility for Sandia National Laboratory.
- D. SMF processed core and cuttings from drilling activities.
- E. Created specimens from core samples for analysis by Principal Investigator. Prepared and shipped specimens for the U. S. Geological Survey.
- F. Conducted various geophysical logging activities on USW NRG#7, UE-25 NRG#2C, and UE-25 NRG#2D.
- G. Conducted Schmidt Hammer mechanical tests on USW SD-12 from 0.0' to 539.0' for SNL.

4. **YMP HYDROLOGIC RESEARCH FACILITY, (USGS)**

A. **Geologic Studies Program**

- a. Reviewed geologic maps of Antler Ridge Pavement #1 and the ESF North Portal drainage ditch under QMP-3.04 at the Ranch on May 16, 1994.
- b. Performed logging and unit descriptions in Trench CF#1 at Crater Flat from May 16-20th.
- c. Revised Windy Wash trench log in Crater Flat from May 16-20, 1994 to meet a PACS milestone.
- d. Public Open House on May 21, 1994 at Yucca Crest.
- e. Geographical field trip for the International High-Level Waste Conference on May 27, 1994.
- f. Field sites on the Ranch and NTS were checked for the erosion studies program.
- g. Seismometer sites were checked in the Yucca Mountain area.
- h. Performed surface-based gravity and magnetic surveys across the Ghost Dance Fault on site on May 26, 1994. This work is expected to continue through June 6.

B. **Saturated Zone**

- a. Measured water level in wells J-11, J-12 and J-13, USW WT-1, USW WT-7, USW WT-10, UE-25 WT#12, UE-25 WT#14, UE-25 WT#15, UE-25 WT#17, and UE-25 WT#18. Rising water was measured in USW UZ-14 on May 23, 25, and 27. Data was downloaded at USW G-2, USW H-1, USW H-4, USW H-5, USW H-6, UE-25p #1, USW WT-2, UE-25 WT#3, UE-25 WT#4 USW WT-11, and UE-25 WT#13.
- b. Checked C-well complex instrumentation from May 24-26, 1994.

C. **Unsaturated Zone**

- a. Public Open House on May 21, 1994 at the HRF.
- b. Collect water samples in the field, view cores and observe core presentation by the SMF.
- c. Coordinated inventory control and met with Calibration Lab staff at the HRF from May 25-27, 1994.
- d. Sampled air from UE-25 UZ#16 and USW NRG-6, and also observed the start of vacuum pumping on the ESF radial boreholes.
- e. Collected natural air flow data from barometric pressure changes in USW UZ-6s and other boreholes on Yucca Mountain.

5. **REYNOLDS ELECTRICAL AND ENGINEERING CO., (REECO)**

A. **Drilling**

- a. SD-12; cored to 760.82'. Reamed from to 720.66'.

- b. UZ-14; Monitored fluid level and took water samples. Rigged down Failing Stratmaster Drill Rig and moved rig.
- c. SD-9; drilled from 16.67' to 53.57' with 13-inch hammer bit; opened hole 15 inches to 53.57'. Ran 9 5/8-inch casing to 50.15' G.L.; cemented same to surface.
- d. UZ-7; cleaned out bore hole to 161 feet. Still having some problem with the hole sloughing in from above.

B. Logistics

- a. Assisted in the conducting of five (8) 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. Set up tables, a grill, trash cans, water jugs, etc. at Wilson's Pond in support of an appreciation picnic sponsored by SAIC.
- d. Completed the inventory of 53 property items that appeared on the latest Equipment Exception by Custody Report (PEPE No. 4401-03) and forwarded the results to REECo Property.

C. Construction

- a. Starter Tunnel
 - 1. Place mud slab on Thursday
- b. TBM assembly
 - 1. Completed on head assembly:
 - a. Hydraulic piping
 - b. Lubrication piping
 - c. Cooling & compressed air piping
 - 2. Installed the transfer conveyer on decks 1-3
 - 3. Installed vent system on decks 1 -3
 - 4. Installed both motor control centers (MCC)
 - 5. Continue electrical wiring (4-5 weeks).
 - 6. Continue welding tail shield to gripper shoe (2 weeks)
 - 7. Install bridge conveyer
 - 8. Install operator consol.
- c. Precast Yard
 - 1. Installed power line & waterline
 - 2. Form additional pads
 - 3. Continue mobilization.
- d. Batch Plant
 - 1. Continue certification (Qualify two trucks)
- e. North Portal Pad
 - 1. Finished grounding grid
 - 2. Pulled wire in duct banks
 - 3. Continued water and sewer line installation

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

- A. Continued removing dirt from the invert at the ESF starter tunnel.
- B. Report of tracer water used underground by Reynolds Electrical and Engineering Company Inc. (REECo) from May 16, 1994, through May 22, 1994, is 2.0 kiloliters (520 gallons). The total usage (revised) of tracer water used is 1,759.0 kiloliters (464,689 gallons).
- C. No geologic mapping took place this week.
- D. No perched water was identified during this week.
- E. No consolidated sampling took place this week.
- F. Sandia National Laboratories (SNL) Field Team monitored the Multipoint Borehole Extensometer gauges located in the test alcove and the main ESF. Additional readings for the rockbolt load cells located in the main ESF were taken.
- G. The lower left (Radial Borehole Test [RBT] #1) and the upper hole (RBT #3) were logged by the U. S. Geological Survey using a television camera/video recorder. The holes were closed in and further hydrochemistry tests will commence next week.
- H. The U.S. Geological Survey (USGS) completed running a T.V. camera in the lower right hole (ESF Alcove #1 - RBT #2). The USGS will run a T.V. camera in the other two drill holes next week.
- I. REECo continued installing wire mesh for ground control, on the sides of the excavation around the large block. The top of the block was cut horizontally so as to provide a smooth service. The top of the block that was cut off was moved as a single piece to the entrance of the road leading up to Fran Ridge. This block will be provided to others for study. Two additional areas of the dye testing were identified and cleaned of rubble. The SNL Field Team completed the dye test and mapped these two areas as well as the area where the original dye test took place. Excavation around the large block continued.

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

JOB PACKAGES

YMP/JP93-03 Rev. 0 Obsolete

TEST PLANNING PACKAGES

SPECIFICATIONS

YMP-025-1-SP098 Rev. 3

DRAWINGS

BC0000000-01717-2100-89100	Rev. 0
BC0000000-01717-2100-89101	Rev. 0
BC0000000-01717-2100-89102	Rev. 0
BC0000000-01717-2100-89103	Rev. 0

BC0000000-01717-2100-89103	Rev. 0
BC0000000-01717-2100-89104	Rev. 0
BC0000000-01717-2100-89105	Rev. 0

FCRs

93/254	Obsolete
93/276	Obsolete
93/280	Obsolete
93/318	Obsolete
93/320	Obsolete
93/331	Obsolete
93/404	Obsolete
94/204	Incorporation of Die/QA requirements into sanitary sewer system collection system
94/205	Revise batch ticket criteria for the cast-in-place concrete
94/206	Add reference to single line dwg.
94/207	JP92-20 updates
94/208	Grounding connector inspection clarification
94/212	Finish of embedded items
94/213	Grounding detail clarification
94/217	Borehole UE-25 NRG-2B Program Addition
94/218	Borehole UW NRG-7/7A program addition and name change
94/220	Addition of Inspection Requirements of the Waste Water Pond to the Distribution
94/221	Launch Chamber YMP-025-1-STRU-ST128 Rev. 01
94/222	BAB000000-01717-6300-03301 Rev. 0 Specification Section 03301
94/223	Ground Support for the starter tunnel face
94/224	Launch Chamber - YMP-025-1-STRU-ST126 Rev. 01
94/226	Borehole UE-25 NRG-2A Program Addition
94/229	Switchgear building ductbank configuration correction

REPRODUCTION:

8993 pages copied
114 drawings copied

DOCUMENTS ISSUED:

473 controlled documents
- 321 FCR's
- 30 JP's
- 122 SPEC's

DTAR LOGOFFS: 197

8. FIELD TRAINING (SAIC)

a. GET 1.5 Refresher Training; 14 students passed

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- b. ESF Visitor Training; 28 people. Conducted special ESF briefing for 7 people with the French NRC tour on 05/24/94.
- c. GERT/GET Training ; 24 people attended.
- d. Standard First Aid Training 8 people.
- e. Conducted special GERT class for 8 USGS personnel in Reno, NV on 5/19/94.

Winfred A. Wilson

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

YMP:WAW-94/123

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