



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

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TO: Joseph Holonich, Director, HLPD, M/S 4 H 3
FROM: Sr. On-Site Licensing Representatives' Office, Las Vegas
DATE: February 14, 1994
SUBJECT: YUCCA MOUNTAIN SITE OFFICE (YMSO) ACTIVITY REPORT FOR THE
PERIOD OF 1/14 TO 1/28/94

Please find enclosed the above-referenced information. There is nothing requiring specific management attention.

cc: w/enc.: Charlotte Abrams, M/S 4 H 3
Anne Garcia, M/S 4 H 3

Enclosure as stated

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Department of Energy
Yucca Mountain Site Characterization
Project Office
P. O. Box 98608
Las Vegas, NV 89193-8608

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WBS: 1.2.7.3
QA: N/A

R. M. Nelson, Jr., Acting Project Manager, YMP, NV

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

The following are the significant activities for the period from January 14, 1994 to January 28, 1994:

1. FIELD OPERATIONS CENTER

A. Management and Administration

- a. Provided operations, administrative, and security support to the Yucca Mountain Site Manager and his DOE staff.
- b. The Site Manager and FOC staff provided operational and logistical support to the following tours during this period: B&W Fuel Company, VP; Public Open House; Procurement and Property Management Review Team; Steering Committee on HLWM Project-Japan.
- b. Provided operational and administrative support for site characterization activities in the field.
- c. Site Manager prepared the Job Package Authorization Letter along with the Field Operations Permit for JP 94-03, "Preparation of Access, Drilling and Testing of Boreholes UE-25 NRG-2C and 2D." This was pursuant to receipt of Notice to Proceed from the Acting Project Manager, YMP, NV.
- d. Site Manager prepared the Job Package Authorization Letter along with the Field Operations Permit for JP 94-04, "Drilling and Testing of Borehole USW SD-12." This was pursuant to receipt of Notice to Proceed from the Acting Project Manager, YMP, NV.
- e. Site Manager has initiated action through the FOC Logistics Coordinator for an additional 50 radios/battery chargers to facilitate the needed support to Peter Kiewit and other REECo functions.
- f. Site Manager is presently working on the Job Package Authorization and Field Operations Permit preparation for two forthcoming activities: USW SD-9, "Access Road and Drill Pad", and UE 25 NRG-2C and NRG-2D, "Auger Drilling Operations."
- g. Site Manager submitted the December 1993 report on "Portable Radios on Permanent Assignment, YMP Project," to the REECo TPO.

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- h. Site Manager continued having dialogue with the DOE/NTSO personnel relative to concurrence and approved being granted YMSO for use of the fenced yard around the E-MAD Facility, Area 25 and utilization of three vacant warehouses to be used for YMP storage facilities.
- i. Site Manager presently working on JP Authorization Letter and Field Operations Permit for the "Construction of Access Road and Drill Pad for USW SD-9 Borehole." This JP 94-06 is forthcoming from the Project Office.
- j. Provided logistical support for issuing vehicles, first aid kits, fire extinguisher, and other necessary equipment to personnel performing field duty.
- k. Prepared and transmitted daily operations reports to NORSOC, and the biweekly reports to HQ OCRWM.
- l. Prepared twenty-five (25) badge requests for visitors and field work.
- m. Commenced review of the RSN GSFC Consolidated Conceptual Design Report Document.
- n. Conducted an evacuation drill of the FOC Building and continued tunnel exercise planning.
- o. Processed nine (9) Work Order Requests, providing for communications, field support and building maintenance.
- p. Processed thirteen (13) photographic service/support requests.
- q. Continue to provide photographic coverage of ESF operations.
- r. Provided underground visitors training for visitors and workers requiring access.
- s. Commenced review of SP 1.3
- t. Responded to Environmental Audit findings.
- u. Reviewed the rewrite of FOI 5000.1 for updating.
- v. Commenced work on FOC task descriptions and background requirements.
- w. Reviewed Job Package 94-04 for drilling SD-12.

B. Project Safety & Health (DOE/SAIC)

- a. Three employees successfully completed the Construction Safety for DOE class presented by Pacific Northwest Laboratory.
- b. Prepared and presented a briefing for Assistant Manager, Environmental Safety and Health.
- c. Performed respirable sampling at NRG-7 on two drillers and two geologists. Also sampled respirable dust at SMF warehouse during janitorial activities.
- d. Conducted a planning meeting for an emergency exercise to test readiness of all participants.

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- e. Updated YMP Organizational Safety and Health chart.
- f. Continue with preparation for "Safety Awareness Day".
- g. Inspected fire extinguishers at the SMF and HRF buildings.
- h. Reviewed and commented on hantavirus training material; coordinated rodent control activities for Area 25.
- i. Researched California Tunnel Orders and Electrical codes for application to YMP.
- j. Worked on resolution of comments on YMP 93-23, Emergency Evacuation - Bank of America.
- k. Continued activities for YMP Emergency Management Plan evacuation scenario.
- l. Performed 35 surveillances from January 19 to January 26, 1994.
- m. OCCURRENCE REPORTS: no outstanding reports

C. Bullfrog Planning Commission

- a. Continued work on Gate 510 Upgrade Report.

2. Raytheon Services Nevada, (RSN)

A. Field Support

- a. As-built survey of Ghost Dance Fault Roadcuts, JP 93-123.
- b. Continuing to work on the Area 25 Survey Control Net.

B. Quality Control

- a. Performing an evaluation of the YMPO Nonconformance Report, YMPO-94-0004. One Hundred and six boreholes have been inspected and evaluated. The final report is in process.

3. Sample Management Facility (SMF/SAIC)

- a. Supported drilling activities on USW NRG#7/7A. DS sampled and processed core from 1033.7' to 1134.9'.
- b. Continued monitoring and oversight of prototype drilling tool development conducted at Colorado School of Mines.
- c. Created 18 specimens from core samples for analysis by PI's.
- d. Conducted 34 core examinations at SMF for SNL and USGS.
- e. Processed core from drilling activities and processed Specimen Removal Requests.

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4. YMP Hydrologic Research Facility, (USGS)

The following activities were accomplished by USGS Staff:

Geologic Studies Program:

- a. Performed a field surveillance of the borehole permeability testing, trench logging, instrument calibration and pavement mapping activities.
- b. Mapped and viewed new excavations at Trench 14 and Midway Valley.
- c. Continued fracture mapping at Antler Ridge Pavement #1.

Hydrologic Investigation Program:

Saturated Zone:

- a. Water levels were measured, data was downloaded and transducer were calibrated at various locations.
- b. The first phase of work on the C-well testing is now complete and the rig was released from the site on 1/21/94.
- c. Personnel trained at the HRF on the use of new computer software for water level data.

Unsaturated Zone:

- a. Continued to run air permeability tests at UZ-16.
- b. Calibrated water baths and locating shelter sites for data communications gear.
- c. Collected air samples from unsaturated-zone boreholes and measure natural air movement into and out of Yucca Mountain.

5. Reynolds Electric and Engineering Co., Inc. (REECO)

A. Drilling

- a. JP 92-17 - USW UZ-14: Finished rigging down LM-300 Drill Rig.
- b. JP 93-15 - NRG-7/7A: Hammer drilled from 1008.22' to 1026.60'; cored from 1056.05' to 1134.90'. Directional survey at 1115 feet - 6 degrees, 30 mins, south 2 degrees west.
- c. JP 93-03a - UE 25 NRG-5: Attempted to pull casing with hydraulic jacks; casing stuck.
- d. JP 94-04 - USW SD-12: Moved the LM-300 onto location.
- e. RSN WP 93-10 - C-Hole Complex: Finished pulling packers on C-1; ran dummy packer to 2940.88'; ran packers on 2 7/8" tubing; set

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packers at various locations; found bad connection on inflation line; Rig released by USGS.

- f. Measured air quality and relative humidity during rockbolt operations, installation of rounds at the face, and post-blast gas sampling in the Test Alcove.
- g. Conducted noise levels, etc. at the REECo YMP office reproduction room (BoA). Results indicate levels are below standards.

B. Logistics

- a. Continued requisitioning supplies, materials, and services for Field Operations Center.
- b. Supported on going tours.
- c. Supported construction efforts in Area 25.

C. Construction

- a. JP92-20- "ESF North Portal Pad/Facilities." REECo is continuing with the placement and compacting of the sand bedding in the new waterline trench; 1,600 feet of the 8" PVC pipe has been installed; backhoe is trenching from the pump station to the new water tank location above the ESF. At the Batch Plant, REECo carpenters have constructed eight columns to hold the new cement silos. Concrete will be poured in these columns on 1/27. At the Canyon Substation, REECo is putting in new footings for the transformer installation. The alcove face, at the ESF Portal Pad, is at 114' from the centerline of the main drift; cleaning and mapping in the alcove.
- b. January 24, 1994, REECo completed drilling and shooting round NP-TA-018, the last round planned to complete the test alcove. Muck out test alcove and install splitset rock bolts and welded wire fabric. Continue excavating ductbank trenches and foundation for switchgear building on north portal pad. Continue work on concrete batch plant foundation. Resume laying water line pipe.
- c. January 25, 1994, installed splitset rockbolts and welded wire fabric in test alcove. Face of test alcove now at 34.5 m from centerline of starter tunnel. Continue excavating for ductbanks and switchgear building foundation on north portal pad. Placed concrete for conduit at transformer building pad. Stripping topsoil from temporary transmission line alignment. Placing bedding material in water line trench.
- d. January 26, 1994, finished cleaning and geologic mapping of last section of test alcove. Continue excavating for ductbanks and switchgear building on north portal pad. Placing concrete for conduit at

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- transformer pad. Forming for concrete batch plant foundation. Placing bedding material in water line trench and laying pipe.
- e. Thursday, January 27, 1994, continue work on electrical facilities on north portal pad. Continue forming concrete batch plant foundation. Continue laying water line pipe.
 - f. TPP 92-1- "NRG-4 & NRG-5." Pulled casing from NRG-4 and are attempting to dislodge bridge at 536 feet. Casing stuck in NRG-5; preparing fishing operation for next week.
 - g. JP 93-15, WP 93-19, TPP 92-1- "NRG-7/7A Borehole." Core depth 1173.3 feet.
 - h. JP 92-17, WP 93-03, TPP T93-9- "UZ-14 Borehole." Core depth 1442.1, ream depth 1421.6. The Stratmaster drill rig will be moved onto the UZ-14 location in near future.
 - i. JP 92-3, WP 92-03, TPP T92-02- "UZ-16 Borehole." Air permeability testing by USGS is scheduled to run through 3/94.
 - j. JP 94-04, WP 93-18, TPP T93-9- "SD-12 Borehole Drill Pad & Access Road." The LM-300 drilling rig and support equipment is being rigged up on the site. Work authorization in place.
 - k. JP 93-11, WP 93-10, TPP 92-09- "C-Well Testing." Placement and testing of downhole equipment completed in all three holes. Stratmaster rig released for use at UZ-14.
 - l. JP 92-05- "Trenches A-1 & MWV-T3 (Alice Ridge)." Excavations complete. Waiting on Soils Engineer report to be provided prior to mapping.
 - m. TPP T-93-3, JP 93-10- "Engineered Barrier: Large Block Test." LLNL is 60% complete on the first cut of the large block experiment. Five cuts total are going to be made. Still sawing the sides of the test block.
 - n. JP 94-02- "Bow Ridge Fault." The NRT-1 trench has been cut deeper with a slot in the middle of the existing bottom.
6. Los Alamos National Laboratory, (LANL)
- a. JP 92-20 -"ESF North Portal Pad and Facilities": REECo commenced installation of the recording system for SNL rockbolt load cells and MPBX gauges. Tested eight "shell bolts" at the entrance of the test alcove. The test was successful.
 - b. JP 92-20D: SNL took readings of previously installed convergence pins and rockbolt load cells.
 - c. Total tracer water used is 441,241 gallons.
 - d. Large Block Experiment: Continued sawing the first cut (north side).

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7. Documents and Records Center, (CRWMS M&O)

a. Received and Issued the following Controlled Documents:

JOB PACKAGES

YMP/JP94-03 Rev. 0, "Preparation of Access, Drilling and Testing of Boreholes UE-25 NRG-2c and D (Also Known as UE-25 NRG-2c and d)"

TEST PLANNING PACKAGES

SPECIFICATIONS

DRAWINGS

WORK PROGRAMS

YMP/WP/94-01 Rev. 0, "UE-25 NRG-2c North Ramp Geologic Borehole Work Program"

YMP/WP/94-02 Rev. 0, "UE-25 NRG-2d North Ramp Geologic Borehole Work Program"

FCRs

FCR 94/079, "Reconciliation of Specification Conflicts for Ductbank Excavation"

FCR 94/081, "Change Pipe Bedding Material Placement Method"

FCR 94/099, "Change of Compaction Requirement of Pipe Bedding Material"

FCR 94/091, "Supplementary Information for Ductbank Trenching Drawing"

b. REPRODUCTION:

18,416 pages copied

619 drawings copied

c. DOCUMENTS ISSUED:

77 controlled documents

- 41 JP's
- 0 SPEC's
- 134 WP's
- 0 DWG's

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- 236 FCR's
743 information copies

- d. DTAR logoffs: 404
- e. Coordination of design package 2A and 1B with Document Control Manager and ESF Facilitator.
- f. Establishing photographic services station in DRC.

8. Field Training (SAIC)

- a. ESF Visitor Briefing, 39 people attended.
- b. GET 1.5 Annual Refresher Testing, 39 people passed.
- c. Standard First Aid Training for 15 people.
- d. GERT/GET Training for 23 people.



Winfred A. Wilson
Site Manager

YMP:WAW-94/032

cc:

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