



Department of Energy

Washington, DC 20585

JUN 1 1993

Mr. Joseph J. Holonich, Director  
Repository Licensing and Quality Assurance  
Project Directorate  
Division of High-Level Waste Management  
Office of Nuclear Material Safety  
and Safeguards  
U.S. Nuclear Regulatory Commission  
Washington, DC 20555

Dear Mr. Holonich:

The enclosed Yucca Mountain Site Characterization Project participant monthly status reports are forwarded for your information.

Also enclosed for your information are U.S. Department of Energy responses to State of Nevada comments on study plans.

If you have any questions on the enclosed reports, please contact Priscilla Bunton at (202) 586-8365.

Linda J. Desell, Chief  
Regulatory Integration Branch  
Office of Civilian Radioactive  
Waste Management

Enclosures:

- (1) EG&G/EM Progress Report, April 1993
- (2) REECO Yucca Mountain Status Report, April 1993
- (3) Sandia National Laboratories Monthly Highlights and Status Report, March 1993
- (4) DOE Responses to State of Nevada Comments on Study Plan 8.3.1.9.2.2
- (5) DOE Responses to State of Nevada Comments on Study Plan 8.3.1.17.3.4

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cc: (w/out encl.)  
C. Gertz, YMPO  
(w/encl.)  
Ken Hooks, NRC  
T. J. Hickey, Nevada Legislative Committee  
R. Loux, State of Nevada  
D. Bechtel, Las Vegas, NV  
Eureka County, NV  
Lander County, Battle Mountain, NV  
P. Niedzielski-Eichner, Nye County, NV  
W. Offutt, Nye County, NV  
L. Bradshaw, Nye County, NV  
C. Schank, Churchill County, NV  
F. Mariani, White Pine County, NV  
V. Poe, Mineral County, NV  
J. Pitts, Lincoln County, NV  
J. Hayes, Esmeralda County, NV  
B. Mettam, Inyo County, CA

*see envelope on shelf*

Rec'd with letter  
6/1/93

Submitted to  
Project Office  
Liaison 3



# EG&G ENERGY MEASUREMENTS

Santa Barbara Operations

EG&G ENERGY MEASUREMENTS, INC., 101 CONVENTION CENTER DRIVE, LAS VEGAS, NEVADA 89109

TEL: (702)794-7463

MAY 6 10 47 AM '93

April 5, 1993  
LV93-RAG-036

WBS 1.2.13.4.11  
QA: N/A

I-34/324  
RAT

Wendy Dixon, Director  
Project and Operations Control Division  
Yucca Mountain Project Office  
DOE Field Office, Nevada  
P. O. Box 98518  
Las Vegas, NV 89193-8518

## APRIL 1993 PROGRESS REPORT

Attached is the April 1993 progress report on biological studies and support activities conducted by EG&G/EM for the Yucca Mountain Site Characterization Project. Please contact Tom O'Farrell (293-7762) or Kent Ostler (794-7474) if you have questions regarding this report.

5-5-93

W. Kent Ostler, Manager  
Environmental Sciences Department

vrk

Attachment

cc: G. Ryder, DOE/YMP  
D. Sorensen, SAIC  
P. Niles, SAIC

DIVISION

RECORD SOURCE

DIXON  
Ryder / GERTZ  
Dyer  
MORRIS / OCB DE  
Brodsky / S. Jones  
Gandhi / Simmons  
Lamerton-Ray  
Schrecongost

REC'D IN YMP

5/6/93 102-8

ENCLOSURE 1

**YUCCA MOUNTAIN PROJECT  
BIOLOGICAL RESOURCES PROGRAM  
MONTHLY PROGRESS REPORT  
APRIL 1993**

**Summary of Work Accomplished During Report Period**

EG&G Energy Measurements (EG&G/EM) conducted work for the Biological Resources task (WBS 1.2.13.4.11) for the Project Office. Activities included conducting preactivity surveys; continuing site characterization effects studies, support studies for the radiological monitoring program, desert tortoise studies, and habitat reclamation studies; development of work instructions and study designs for new studies; and responding to requests for biological support by Project Office.

**KEY ISSUES and CONCERNS**

- EG&G/EM provides an on-call biologist to remove tortoises found in existing construction sites, on roads, and undisturbed sites with approved land access agreements. There is a continuing misunderstanding among YMP workers as to what the on-call biologist can do. During the past month, the on-call biologist was called to do a real time survey to clear an area for use. WilTel was laying a telephone line from H-Road over Exile Hill to the North Portal pad. They wanted permission to use an off-road area to turn equipment around on as well as permission to access a corridor previously surveyed for a power line. The biologist clear areas only when directed by Project Office. EG&G/EM recommends that Project Office reemphasize the policy concerning land access and the duties of the on-call biologist to contractors.
  
- Obtaining gasoline for EG&G/EM vehicles remains a major problem. All our vehicles are used on a daily basis. Seldom are field vehicles parked near the FOC during the day when the mobile gas truck makes its round. Vehicles have had to be driven to Mercury during the day to obtain gas or parked overnight in Mercury to get gas in the morning. The Mercury gas station closes at 1715 hours. EG&G/EM field crews frequently do not arrive in Mercury until after the gas station closes. A temporary gas station like the one set up in Mercury a year ago when the underground gas tanks were being replaced would be helpful until the Area 25 station is reopened.

**MAJOR ACCOMPLISHMENTS**

- EG&G/EM participated in the Technical Review Board tour of the Yucca Mountain Site Characterization Project Site.

**April Monthly Report  
EG&G Energy Measurements**

**PLANNED WORK NOT ACCOMPLISHED**

- None.

**MAJOR WORK IN PROGRESS**

- EG&G/EM conducted six preactivity surveys for proposed activities to assess potential impacts on biological resources. Casual access surveys were conducted at three sites. Reclamation inventories were completed at three sites. One biological resource survey and one postactivity survey report were submitted to Project Office. Tortoise resurveys were conducted at two sites.
- EG&G/EM continued monitoring radiomarked tortoises. Previously displaced tortoises were located 2-3 times each week. Two marked and two unmarked tortoises were found inside the fence of the borrow pit. Six tortoises were regularly found outside of the fence. This area now is being more closely monitored. One incidental take of a tortoise was reported along the Canyon substation road that extends northwest from H-road.
- EG&G/EM continued monitoring animal populations and vegetation communities for the Radiological Monitoring (RMP) and Site Characterization Effects Programs (SCEP). Radiomarked quail were located 1-3 times during the month, and small mammal specimens were collected at six locations for the RMP. Small mammal populations were monitored at eight locations for the SCEP by capturing, marking, and recapturing individual animals. Vegetation studies for the SCEP were started. Cover measures were completed on 40 of 48 study plots.
- Hydroseeding and hydromulching was completed for the borrow pit topsoil stockpile. The NRG-5 topsoil stockpile was seeded, and stockpiles at NRG-5, NRG-6, and UZ-16 were irrigated. Measurement of plant density was started on the reclamation demonstration plots near Forty Mile Wash. The reclamation site at Well JF-3 was fenced to reduce herbivory on plant seedlings.
- EG&G/EM participated in a working group to reevaluate the Site Characterization Plans goals for thermal loading from a potential repository.



# Reynolds Electrical & Engineering Co., Inc.

Post Office Box 98521 • Las Vegas, NV 89193-8521

May 12 2 33 PM '93

IN REPLY REFER TO:  
580-01-420

WBS 1.2.9.1  
QA: N/A

May 10, 1993

Carl P. Gertz, Project Manager  
Yucca Mountain Site Characterization  
Project Office  
U.S. Department of Energy  
Post Office Box 98608  
Las Vegas, NV 89193-8608

I-341578  
BWH

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT (YMP) STATUS REPORT (SCP: N/A)

Attached is the April YMP Status Report for Reynolds Electrical & Engineering Co., Inc.'s participation in the YMP.

If further information is required, please contact Rene' R. Knott at 794-7193.

*Bruce Hardulla For R.F.P.*

R. F. Pritchett, Manager  
Yucca Mountain Project Division  
YMP Technical Project Officer

5-10-93

RFP:RRK:mab

Enclosure  
Status Report (3 pages)

cy: See page 2

DIVISION *Yest*  
*see Distribution*  
CC: *Just (YMP)*  
CC: *Behr*  
CC: *Brodsky*  
CC: *H-Raup*  
CC: *Stucker - ewe2*  
CC: \_\_\_\_\_  
CC: \_\_\_\_\_

REC'D IN YMP  
5/12/93

TOTAL QUALITY IS OUR BUSINESS

REECO  
AN EG&G COMPANY

Enclosure 2



**REYNOLDS ELECTRICAL & ENGINEERING CO., INC.  
(REECO)**

**YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT (YMP)**

**APRIL 1993 - STATUS REPORT**

Reeco has no reportable Level 0 or Level 1 Milestones. REECO met Proposed Level 3 Milestone 0R02 for initiation of underground excavation on April 2, 1993.

**SITE (1.2.3)**

**WBS 1.2.3.2**

**Task: USGS Integrated Data Acquisition System (IDAS)**

Continued support of IDAS to include technical support, equipment testing, maintenance and repairs.

**WBS 1.2.3.5**

**Task: Capital Equipment to support Drilling Programs**

Awaiting approval and funding transfer of \$100,000 requested in the Capital Requirements Plan submitted in February.

**Task: USW UZ-14 Drilling (Job Package 92-17)**

Completed mobilization of the LM-300 drill rig and associated equipment from UZ-16 to UZ-14 and began coring/drilling operations on April 15, 1993. Set 16-inch surface casing at 51.36 feet and cemented to surface. Currently coring and reaming from under surface casing at 141 feet. Scheduled total depth for UZ-14 is 2,000 feet.

**Task: UE-25 NRG-5 North Portal Ramp Borehole (Job Package 93-3A)**

Constructed access road and drill pad. Began mobilizing the Joy 1 Drill Rig and associated equipment on April 16, 1993. Currently hammer drilling at 689 feet. Scheduled total depth of NRG-5 is 950 feet with continuous core from 710 feet to 950 feet.

**Task: USW WT-7 Additional Work Activities (Job Package 93-13)**

Completed USW WT-7, Additional Work Activities, April 9, 1993. All equipment was returned to the Area 25 Subdock.

**Procurement Actions**

Issued a Notice to Proceed to Central Fishing Tool, Inc. so that support of drilling fishing operations would be available within ten hours following notification.

**REGULATORY (1.2.5)**

**WBS 1.2.5.2.4**

**Task: Site Characterization Plan (SCP) Reference Library and Database**

Continued distribution and database maintenance for the SCP and Progress Reports. Distributed two sets of the SCP and four copies of Progress Report #7 during this reporting period.



## **EXPLORATORY STUDIES (1.2.6)**

### **WBS 1.2.6.1**

#### **Task: Exploratory Studies Facility (ESF)**

Continued administrative support for ESF activities to include planning, scheduling, and management. Revised three Technical Control (TC) Procedures and wrote three Interim Change Notices to TC procedures in response to Field Change Requests issued by the M&O affecting design specifications; performed 50% Title II Design Review of Package 1B; and issued rental request for shotcrete boom.

#### **Task: Technical Support and Underground Excavation for the ESF (RFP 1-DH-92)**

Definitized the selected offeror's proposal received on April 27, 1993, for Request For Proposal (RFP) 1-DH-93, Technical Support for Underground Excavation. The package is in Procurement review. Conducted a meeting with Kiewit Construction Company at their request, to clarify accomplishment of Task 1 requirements.

#### **Task: Procurement of a Tunnel Boring Machine (RFP 2-DH-93)**

Procurement is proceeding on schedule. Revised proposals received from all offerors on April 6, 1993. Received written permission from DOE/NV on April 20, 1993 for use of Progress Payments. Best and Final Offers were received from all proposers on April 20, 1993. Review of apparent successful offeror's accounting system for acceptability for progress payments performed on April 20 through April 23, 1993. Technical review of proposer's facilities completed on April 23, 1993. Purchase Order file has been assembled and is in the Procurement Review cycle.

#### **Task: ESF North Portal Pad & Facilities (Job Package 92-20)**

Completed fill work on North Portal Pad to top of subgrade; completed grouting and testing 10-foot rockbolts on highwall for portal protection; mined 61 feet of Pilot Drift in the top heading; bolted, wired, and fibercreted same; supported mappers in pilot drifts; lowered ramp pad to spring line elevation and predrilled slash cut perimeter holes; continued mobilizing mining infrastructure including walkers' office, telephones, electrical utilities, and traced water batch system; continued Drainage Channel rip rap production and placement; completed Topsoil and Rock Storage Access Road, all drainage ditches associated with this area and the Rock Storage Pad; completed the installation of the twin 48-inch reinforced concrete pipe storm drains under the North Portal Pad Access road; and began plating the North Portal Pad Access road with aggregate base course.

The work to be performed by St. George Steel and the manufacturer of the portal gate, with Curtis Steel for reinforcing bars, was suspended until further notice. St. George Steel has submitted a claim for the suspended work which will have to be resolved. Wulfenstein Construction Company was also directed to delay the delivery of aggregate for one month.

RFP 12-DH-93, Prefabricated Metal Building (Switchgear Building), issued on April 14, 1993 with a closing date of May 4, 1993.

## **TEST FACILITIES (1.2.7)**

### **Task: Field Operations Support**

Continued logistical and tour support for DOE Yucca Mountain Site (YMSO) staff. Fourteen tours were held during this period with 669 people attending. Support included but was not limited to arrangements for buses, registration of guests, coordination of lunches/beverages, medical service, furniture, and mechanical service. Continued preparations for upcoming tours.



Continued support services to participants and maintenance of YMP utilized facilities, utilities, equipment and roads in Area 25. Suspended installation of new chiller unit and auxiliary units for Building 4015, Area 25 Field Operations Center, due to funding limitations. Incremental funding was identified and authorized by the Project Office. Operations scheduled to resume on May 10, 1993. We are working with the Project Office to obtain remaining funding required to complete this task.

#### **PROJECT MANAGEMENT (1.2.9)**

##### **WBS 1.2.9**

##### **Task: Technical Project Office Management/Project Control**

Continued normal administrative level of effort support. Continued status and update of Planning and Control System (PACS); supported ESF Construction activities, drilling activities, and completed cost estimates as required.

#### **QUALITY ASSURANCE (1.2.11)**

##### **WBS 1.2.11**

##### **Task: Quality Assurance**

Continued normal administrative level of effort support. One Corrective Action Report (CAR) was issued identifying a significant condition adverse to quality in the area of material control.

Responses to the CARs issued as a result of the March 1993 audit of inspection activities have been received by the QA Office. The responses are currently being evaluated for acceptability.

#### **ENVIRONMENT, SAFETY & HEALTH (1.2.13)**

##### **WBS 1.2.13**

##### **Task: Safety & Occupational Health**

Provided medical, occupational safety, industrial hygiene and fire protection support. Completed training for experienced underground workers during this period.

#### **SUPPORT SERVICES (1.2.15)**

##### **WBS 1.2.15**

##### **Task: Administrative Support and Training**

Continued to provide procurement, logistical, and information management administrative level of effort support; continued support services to various YMP participants.

Staffed the Technical Information Display at the American Association of Petroleum Geologists 1993 annual convention in New Orleans, Louisiana; and provided a technical information display at the International High-Level Radioactive Waste Management Conference in Las Vegas, Nevada.