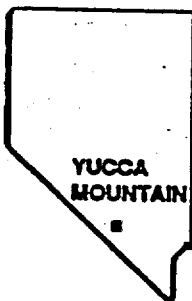


U.S. DEPARTMENT OF ENERGY

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YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT

MIDWAY VALLEY EXCAVATIONS PHASES I AND II

JOB PACKAGE 92-05



9203120362 920305
PDR WASTE
WM-11

PDR

FEBRUARY 1992
UNITED STATES DEPARTMENT OF ENERGY

YMP-057-R0
8/19/91

YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
JOB PACKAGE APPROVAL

1. Job Number 92-05
2. Job Title Midway Valley Excavations Phases I and II
3. Summary of Scope Test pits and trenches will be excavated; Midway Valley vicinity.
4. Responsibilities: Name Ronald Nance Responsibility JPC
5. Participants GEOMATRIX Organization/Individual R. Swan Responsibility PT
6. Milestones:
Early Start 2/24/92
Late Start 2/24/92
Early Finish 5/15/92
Late Finish 6/15/92
7. Project Package Total Cost \$127,449 ^{RPN 2/17/92} \$96,590
8. WBS (3rd Level) 1.2.3
9. TPO Concurrences: USGS: Larry R. Hays 2/19/92
REECO: 127 Ditcher - 2/19/92
RSN: Joseph C. Colburn 2/18/92
10. YMPO Approvals:
- | | |
|--|--|
| <u>Vince [Signature]</u> PCB Date <u>2/19/92</u> | <u>JPC [Signature]</u> Responsible Division Director Date <u>2/19/92</u> |
| <u>WBS [Signature]</u> Division Director Date <u>2/19/92</u> | <u>Womack [Signature]</u> Division Director Date <u>2/19/92</u> |
| <u>Winifred A. Wilson</u> Site Manager Date <u>2/19/92</u> | <u>J. Blaylock</u> Director, QA Date <u>2/19/92</u> |

Maxwell B. Blanchard 2-19-92
YMPO - Project Manager Date

JOB PACKAGE JP 92-05: MIDWAY VALLEY EXCAVATIONS, PHASES I AND II

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A. JOB PACKAGE SCOPE:

1. SCOPE OF WORK:

- a. This Job Package covers excavation by Reynolds Electrical & Engineering Co., Inc. (REECO) and field engineering support by Raytheon Services Nevada (RSN) in and near Midway Valley. Work will be conducted in two phases. The first, two week phase will be the excavations of a series of closely spaced test pits along the proposed alignment of a "long trench" and other test pits in Midway Valley. The second, four week phase will include excavation of a "long trench" (also known as trench E) adjacent to the proposed repository surface facilities and other excavations on the west side of Fran Ridge and at the south end of Midway Valley. Also, geologic investigations by the United States Geological Survey (USGS), under that organization's procedures, include ongoing non-surface-disturbing geologic mapping of surficial deposits that will continue during Fiscal Year (FY) 1992, identification of proposed sites for future excavations during FY 1992 and mapping of trenches along the proposed alignment of a long trench on the east side of Exile Hill and other approved locations in Midway Valley after they are excavated. Excavation of trenches is scheduled to begin in February 1992. Deliverables in FY 1992 from the non-surface disturbing activities include a draft of the surficial geology map and a description of the types and locations of proposed future excavations. Deliverables from the surface-disturbing work include trench maps, descriptions and as-builts within 6 months of completion of the excavations.

The final locations of excavations along the alignment of the long trench and elsewhere in Midway Valley were determined by the Principal Investigator (PI); any changes in the locations will be determined by the PI. The final dimensions and shoring requirements of the excavations will be determined jointly by the PI, the U.S. Department of Energy (DOE) safety specialist, and the RSN soils engineer.

b. SPECIFIC REFERENCES TO SCOPING DOCUMENTS:

- o Drawings, specifications and Work Program are prepared by Raytheon Services Nevada (RSN).

| <u>Specifications</u> (current revisions) | <u>ID Numbers</u> |
|--|-------------------|
| 1. Specification for Standard Exploratory Trenches | YMP-025-9-SP01 |
| 2. Specification for Standard Test Pits | YMP-025-9-SP02 |

JOB PACKAGE 92-05: MIDWAY VALLEY EXCAVATIONS; PHASES I and II

| <u>Drawings</u> (current revisions) | <u>ID Numbers</u> |
|---|---------------------|
| 1. Standard Test Pit Site Plan and Section | YMP-025-9-CIVL-GEO1 |
| 2. Standard Test Pit Excavation Sections | YMP-025-9-CIVL-GEO2 |
| 3. Standard Test Pit Shoring Details | YMP-025-9-CIVL-GEO3 |
| 4. Standard Exploratory Trench Site Plan and Section | YMP-025-9-CIVL-GEO5 |
| 5. Standard Exploratory Trench Excavation Details | YMP-025-9-CIVL-GEO6 |
| 6. Standard Exploratory Trench Shoring Details | YMP-025-9-CIVL-GEO7 |

~~As built drawings and specifications for this job package are complete. The POC secretary will provide specific configuration item numbers for these drawings. These drawings will be identified on the respective drawings.~~

- o Study Plan 8.3.1.17.4.2 Location and Recency of Faulting Near Prospective Surface Facilities, Revision 2.
- o Test Planning Package 92-03, Revision 0, Midway Valley Excavations.
- o Environmental compliance approval for 6 test pits was granted in a letter from Grassmeier to Clanton dated 10/11/91 and amended in a letter from Grassmeier to Clanton dated 1/29/92. A letter from K. Grassmeier to U. Clanton (dated 2/14/92) provides land access and environmental compliance approval for the additional five test pits that are to be excavated in phase I Midway Valley excavation activities.

Compliance approval for other pits and trenches are open prerequisites. Preactivities surveys will be initiated upon request and approval request will be submitted and approved by POC before phase two activities are initiated. *See Attachment: RSN 3, This JP for Environmental Compliance Approval & Requirements.*

- o The following QA Grading Reports covering Midway Valley activities have been approved:

USGS- s1232842A,B,C

REEC - R90-1.2.3-0002.2, Rev. 0

RSN - GR-028

Environmental:

| | |
|---|----------|
| Environmental Compliance: | ECPD-001 |
| Land Acquisition: | ECPD-002 |
| T&MSS Air Quality Monitoring | T12542A |
| T&MSS Meteorological Monitoring | T12542B |
| Archaeological Resources | D12543A |
| Radiological Monitoring Plan for Air and Water | RFP-1 |
| Radiological Monitoring Plan for Air and Water | RFP-3 |

Section A.1.b: Bullet Below #6

Technique for providing CI numbers to the as-builts, should be discussed.

As specific trenches and pits are identified, the AE will be notified, and CI numbers will be assigned by configuration management. The CI numbers along with a description of the item (generally name and location) will be listed in tabular form on the standard drawings, and specifically identified on the as-builts. The former action can be accomplished by means of an approved field change request, with a incorporation into the drawing in accordance with project procedures.

o RSN Field Verification Plan (see Attachment 4).

JOB PACKAGE 92-05: MIDWAY VALLEY EXCAVATIONS; PHASES I and II

o Procedures (Latest Available Revision)

REECc:

CND-SOP-001, Water Accountability on the Yucca Mountain Project.

CND-SOP-019, Dust Control for the Yucca Mountain Project.

YMP-FOI-4702, Job Package Field Management Reporting

YMP-FOI-4703, Preparation of Work Completion Reports

Note: All applicable Administrative Procedures (APs) and Field Operating Instructions shall be adhered to in preparation, construction and completion of the work.

RSN:

RSN-01-03, Survey Dept. Work Functions

RSN-01-04, Survey Dept. Document Control and Distribution

RSN-02-08, Training, Qualification and Certification of Materials Testing Laboratory Personnel.

RSN-03-23, Field Change Control Process

RSN-03-22, Preparation of As Built Drawings and Specifications

RSN-11-1 General Testing Procedures for Materials Testing Laboratory

RSN-12-1 Control of Measuring and Test equipment

QAP-10.1Y Field Verification

YMP-FOI-4702, JP Field Management Reporting

Note: All applicable Administrative Procedures (APs) and Field Operating Instructions (FOIs) shall be adhered to in preparation, construction and completion of the work.

USGS: Technical procedures for mapping by the USGS are listed in study plan 1-8-3.17.4.2 rev. 2.

8.3.1 RPN 2/27/92

c. SPECIFIC SCOPE DEFINITIONS BY PARTICIPANT:

USGS or Geomatrix

- o Field work related to preparation of a surface geological map of the Midway Valley study area (see study plan for map area).
- o Identification of locations and size for all exploratory trenches and soil test pits required for the Midway Valley study.
- o Field work related to preparation of trench maps and descriptions of soil test pits.

REECo

- o Excavate the trenches and soil test pits for this study.
- o Provide labor, material and equipment.
- o REECo is responsible for ensuring a safe work site.

JOB PACKAGE 92-05: MIDWAY VALLEY EXCAVATIONS; PHASES I and II

RSN

- o Field engineering support for Midway Valley activities.
- o Surveying and As-built drawings
- o Provide inspection and testing services (see execution records package, part Blc).

d. WBS DEFINITION BY PARTICIPANT:

WBS 1.2.3.2.8.4.2 USGS
WBS 1.2.3.5.3.22, REECc
WBS 1.2.3.5.3.22 RSN

e. FINAL GUIDANCE FOR PLANNING AND SCHEDULING ACCOUNTS:

DOE has directed the involved participants (referenced) to prepare P&S accounts for all Midway Valley Activities. Participants have identified the following P&S Accounts for work at Midway Valley:

USGS: OG32842

REECc: OR353M

Note: The total for this P&S account for FY 1992 is \$99K.

RSN: RS3522

Note: The total for this P&S account for FY 1992 is \$1039K.

f. GENERAL GUIDANCE FOR SUMMARY ACCOUNTS:

Participants have identified the following Summary Account Numbers under which Surface-Based Testing Activities will proceed.

USGS: OG3284IB, OG3284IC, OG3284JB, OG3284JC

REECc: OR35322D1

RSN: RS3522C92

JOB PACKAGE 92-05: MIDWAY VALLEY EXCAVATIONS; PHASES I and II

g. DEFINITION OF SCOPE COMPLETION:

The scope of this JP will be complete when: 1) Activities under the scope of the JP have been completed (phases 1 and 2); 2) concurrence on completion has been reached by RSN, REECO, USGS and YMPO and documented; 3) final locations have been surveyed and as-built drawings prepared by RSN; 4) information has been entered through YMPO direction into the Geographic Information System (GIS); and 5) all applicable records associated with the execution of this JP have been submitted to DRC to expedite disposition to affected participants. REECO will submit a completion report after each phase of the JP in accordance with YMP-FOI-4703.

B. SPECIAL CONDITIONS:

1. SPECIAL PROJECT OFFICE CONDITIONS:

a. CHANGE CONTROL:

All changes are initiated through the Field Change Control Board. The Field change threshold will be 10% cost and schedule. The Field Change Control Board will be informed of all proposed changes, including those that exceed the above mentioned thresholds. Changes exceeding the 10% threshold will be elevated to the Change Control Board via AP-3.3Q.

b. REPORTING/DOCUMENTATION REQUIREMENTS:

All JP participants shall comply with YMP-FOI-4702, Job Package Field Management Reporting and YMP-FOI-4703, Preparation of Work Completion Reports. A description of site activities activated by this JP will be included in weekly reports by the FTC to the director of RSED and the YMSO manager.

c. RECORD TURNOVER PACKAGE REQUIREMENTS:

Two records packages will be developed for the work activated in this JP.

- 1) JP preparation records package, developed in accordance with section 8 of AP-5.21Q, will be submitted to the YMPO Local Records Center (LRC) by the JPC. It will include:

- o The approved JP
- o Field Operations Permit
- o Initiation forms
- o JP approval forms
- o Notice to proceed
- o JP cover letter
- o PACS information
- o Work Program
- o SM approval letter
- o Environmental compliance letters.

- 2) Execution Records Package will be submitted to the Document Records Center (DRC) by the SM upon completion of the work. It will include:

- o The JP
- o As built drawings
- o Inspection reports
- o Daily and weekly progress reports
- o All changes posted against the original JP.

JOB PACKAGE 92-05: MIDWAY VALLEY EXCAVATIONS; PHASES I and II

The acting Construction, Operations and Testing Support (COTS) manager, acting as a Job Package Records Coordinator (JPRC), will obtain a records package tracking number from the DRC. This number will be used by Participants in submitting documents or specific records to the records package. Specific Records to be Generated by Participants are listed below:

RSN:

- Field Inspection Plan
- Survey Field Notes
- As-Built Drawings
- Field Change Requests
- Field Change Evaluations
- Material Test Lab (MTL) Work Requests Forms
- MTL Records
- MTL Final Tests Reports
- Daily Inspection Reports
- Job Package Field Management Reports
- Records of concurrence of PI, Safety Specialist and Soils Engineer for excavations.

REECo:

- Daily Water Accountability Reports (submitted to RSN).
- Work Completion Reports
- Job Package Field Management Reports

Note: when all records are complete, the COTS manager (JPRC) will compile a complete records package and submit it to the DRC. The COTS manager will inform the SM and FTC.

d. SUMMARY OF OPEN PREREQUISITES:

- o A biological resources preactivity resurvey is required prior to excavation. therefore, POCD shall be informed five working days before work begins (see section B2e).
- o An Environmental Compliance approval will be required prior to initiation of phase two activities.
- o The RSN Field Inspection Plan will be approved prior to initiation of work in the field.

e. SIGNIFICANT INTERFACES:

- o YMSO interface with NTSO is required prior to obtaining required equipment.
- o The Field Test Coordinator or his designee will monitor all technical work at each site.
- o REECo will be responsible for site safety during excavation.
- o RSN will provide a soils engineer at the site during excavation.

JOB PACKAGE 92-05: MIDWAY VALLEY EXCAVATIONS; PHASES I and II

JOB PACKAGE 92-05: MIDWAY VALLEY EXCAVATIONS; PHASES I and II

1. ADMINISTRATIVE PROJECT OFFICE HOLD POINTS:

None have been identified.

2. SPECIAL FIELD CONDITIONS:

a. SAFETY TRAINING REQUIREMENTS:

4-11-92 No unusual hazards have been identified in the work scope covered by this job package. Occupational Safety and Health Administration standards relating to such work provide adequate coverage and no special training is deemed necessary. The General Employee Training (GET) field orientation class must be completed by all personnel performing work and non-escorted personnel visiting the job site. All personnel wishing to visit the job site must be escorted by an individual who has completed the training.

b. FIELD ORIENTATION REQUIREMENTS:

No special field orientation requirements are identified at this time.

c. RESOURCE ALLOCATIONS:

Light duty vehicles and portable radios are available at the Site Office through the Logistics Coordinator. Requests for temporary and permanent office space may be made to the Site Manager or the T&MSS FOC Manager.

d. POINTS OF CONTACT:

| | | | |
|-----------|------------------------------|---------------|--------------|
| USGS | | J. Whitney | 776-1246 |
| Geomatrix | Principal Investigator | B. Swan | 915-957-9557 |
| YMPO | Project Engineer | T. Sullivan | 794-7915 |
| YMPO | WBS Manager | T. Sullivan | 794-7915 |
| T&MSS | Job Package Coordinator | R. Nance | 794-7874 |
| YMPO | Field Test Coordinator | U. Clanton | 794-7943 |
| YMPO | YMPO QA Field Representative | A. Williams | 794-7591 |
| YMPO | Environmental Branch Chief | K. Grassmeier | 794-7525 |
| YMPO | Environmental Compliance | G. Ryder | 794-7573 |
| YMSO | Site Manager | W. Wilson | 295-5914 |
| REECo | Safety Coordinator | J. Henze | 544-7563 |
| YMPO | Safety Specialist | R. Baumeister | 575-5871 |
| YMSO | FOC Manager | R. Schneider | 295-5956 |
| YMSO | Operations | B. Simms | 794-7179 |
| YMSO | Logistics Coordinator | J. Grundman | 575-5975 |
| YMSO | Visitor Control | L. Camp | 295-5915 |
| RSN | Soils Engineer | A. Asgarian | 794-7374 |
| RSN | Field Engineer | J. McNeely | 295-7763 |
| REECo | Operations Superintendent | J. Catozzi | 794-7304 |
| YMSO | Progress Reporting | B. Cameron | 295-5977 |
| T&MSS | COTS Manager | T. Grant | 794-7647 |
| T&MSS | JPRC | T. Grant | 794-7647 |
| T&MSS | Safety Coordinator | G. Milligan | 295-5801 |
| EG&G | Biologist | K. Ostler | |

R12/41
5-60.

JOB PACKAGE 92-05: MIDWAY VALLEY EXCAVATIONS; PHASES I and II

JOB PACKAGE 92-05: MIDWAY VALLEY EXCAVATIONS; PHASES I and II

e. SPECIAL INSTRUCTIONS:

- o All field personnel must comply with applicable Field Operating Instructions (FOIs) .
- o Head counts and location of personnel in the field must be reported to the Field Operations Center each day before 08:30 hours. Each project participant is responsible for reporting their own head counts unless other arrangements are made with Operations in advance. The reporting number is (FOC) 295-5915. The SM has required daily reporting by RSN and REECO, submitted to the FOC by 08:30 hours the following day. Ranch Control, Net 14, may be used for reporting.
- o COTS Manager will insure that complete records of construction, operations and test support activities are submitted to the LRC in accordance with the Field Management Plan (FMP), page 2-8, paragraph 2.5.
- o The Operations Control Branch (OCB) must be contacted by RSED five working days prior to field activities at this site so that EG&G/EM can perform a biological preactivity survey prior to excavations at these sites. Identification of any important resources (such as Native American artifacts) by field personnel should be reported to the OCB.
- o A biologist will be present at the time of access of the backhoe, construction of the pits and exit of the backhoe.

f. SUMMARY OF OPEN PREREQUISITES:

Open prerequisites in B.1.d apply.

g. FIELD INTERFACES:

No significant interfaces have been identified under this heading.

h. ADMINISTRATIVE HOLD POINTS:

No administrative hold points have been identified to date.

i. WORK ACCEPTANCE AND TURNOVER:

Partial acceptance of the non-surface-disturbing activities is anticipated prior to trench excavation. The PI, Project Engineer and Field Test Coordinator are responsible for accepting the work as complete. Documentation of work acceptance will be provided in the work completion reports. The FTC will inform the SM when mapping and description of excavation is complete.

JOB PACKAGE 92-05: MIDWAY VALLEY EXCAVATIONS: PHASES I and II

j. FIELD CHANGE CONTROL BOARD:

The FCCB shall be informed of all proposed changes to the JP, including those exceeding 10% budget and schedule thresholds defined in this JP.

JOB PACKAGE 92-05: MIDWAY VALLEY EXCAVATIONS; PHASES I and II

C. COST/SCHEDULE SUMMARY:

1. SCHEDULE:

a. PROJECT OFFICE SUMMARY NETWORK:

N/A

b. PROJECT OFFICE MILESTONES:

Excavation and Mapping of the Midway Valley trenches and test pits contributes to the final report on Midway Valley faulting, number T553, scheduled for completion in March, 1993.

2. BUDGET:

a. PARTICIPANT BUDGET:

Estimate of the participants budgets for field work on Midway Valley in Phases I and II are as follows:

REECO: \$85,000

RSN: \$11,590

Note: REECO estimates are based on earthwork crew for two weeks during phase 1 and earthwork crew for four weeks in phase two. This is a level-of-effort estimate.

b. P&S ACCOUNT BUDGET:

Approved WBS numbers for FY 1992 that include the Midway Valley field activities are as follows:

REECO - 1.2.3.5.3.22

RSN - 1.2.3.5.3.22

P&S accounts approved for this work are:

REECO: OR353M

Note: Total budget for this P&S account for FY 1992 is \$99K.

RSN: RS3522

Note: Total budget for this P&S account for FY 1992 is \$1039K.

Note: PACS information is included as attachment 1 of this JP.

c. TOTAL BUDGET:

Estimate of total budget for trenching and excavations in Midway Valley: \$96,590

D. INPUTS FROM AFFECTED PARTICIPANTS:

1. PARTICIPANTS COST/SCHEDULE PLAN:

a. GENERAL APPROACH:

In response to a letter of request from the YMPO (Dyer to Participants, dated 12/5/91), Participants have provided information to be incorporated into the JP. The technical tasks described in this JP will be performed by John Whitney (the PI) and USGS subcontractor Bert Swan of Geomatrix. The deliverables will be reviewed by the appropriate levels of USGS management, then will be delivered to YMPO. In addition, the PI will report progress as required in Section B(1)(b) of this job package. The PI is responsible for all technical aspects of this work. Points of contact are identified in Section B(2)(d) of this job package; an alternative point of contact at USGS, if the PI cannot be reached, is Bob Craig at 794-7142.

b. NETWORKS:

N/A

c. SUMMARY ACCOUNTS:

Summary account numbers for Midway Valley activities are:

USGS: OG32841B, OG32841C, OG3284JB, OG3284JC

REECO: OR35322D1

RSN: RS3522C92

d. LOWER-LEVEL ACCOUNT:

Lower-level accounts are contained in the participants cost/schedule control systems. These accounts are directly related to the Project Summary Account.

e. SIGNIFICANT LOWER-LEVEL MILESTONES:

Significant lower-level milestones are contained in participants cost/schedule control systems.

f. KEY INTERFACES AND SUPPORT REQUIREMENTS:

Interfaces are identified in section B 1 e.

g. KEY PREREQUISITES FOR SUCCESSFUL COMPLETION:

No key prerequisites have been identified, but particular attention should be paid to YMP-FOI 4702, Job Package Field Management Reporting and YMP-FOI 4703, Preparation of Work Completion Reports.

ATTACHMENT 1

PACS INFORMATION

P&S Account No. - 0G32842

P&S Account Manager - XXXXX

P&S Account Title - Loc. & Rec. of Fault. Near Prosp. Surf. Facil.

Sch. Start Date - 01-oct-1991

Sch. Finish Date - 01-jul-1993

PWBS No. - 1.2.3.2.8.4.2

PWBS Manager - SULLIVAN

PWBS Title - LOC. & REC. OF FAULT. NEAR PROSP. SURF. FACIL.

Statement of Work

Not Available

| Id | Description | F i s c a l Y e a r 1992 | | | | | | | | | | | | Total |
|----------|--------------------------------|--------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | |
| 0G32841B | 8.3.1.17.4.2.1 Identify Approp | 17 | 14 | 16 | 17 | 15 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 100 |
| 0G32841C | 8.3.1.17.4.2.1 Identify Approp | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 6 | 7 | 7 | 6 | 6 | 37 |
| 0G32841B | 8.3.1.17.4.2.2 Conduct Explora | 13 | 11 | 13 | 13 | 11 | 13 | 13 | 12 | 13 | 13 | 13 | 13 | 151 |
| Total | | 30 | 25 | 29 | 30 | 26 | 30 | 22 | 18 | 20 | 20 | 19 | 19 | 287 |

| Fiscal Year 1992 | Resource Distributions | | | | | | | | | | | | Total |
|---------------------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | |
| Budgeted Cost of Work Scheduled | | | | | | | | | | | | | |
| Operating Dollars | 30 | 25 | 29 | 30 | 26 | 30 | 22 | 18 | 20 | 20 | 19 | 19 | 287 |
| Total BCWS | 30 | 25 | 29 | 30 | 26 | 30 | 22 | 18 | 20 | 20 | 19 | 19 | 287 |

| | Fiscal Year Distributions | | | | | | | | | | | At | |
|---------------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | Prior | FY1992 | FY1993 | FY1994 | FY1995 | FY1996 | FY1997 | FY1998 | FY1999 | FY2000 | FY2001 | Future | Complete |
| Annual Budget | 0 | 287 | 338 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 625 |

INFORMATION COPY

Approvals

N/A

P&S Account Manager

Date

Technical Project Officer Date

Project WBS Element Manager Date

Summary Account No. - 0G3284IB
Summary Account Title - 8.3.1.17.4.2.1 Identify Appropriate Trench Locatio
Status -
P&S Account No. - 0G32842
P&S Account Title - Loc. & Rec. of Fault. Near Prosp. Surf. Facil.

Summary Account Manager - SWAN
Type of Effort - DISCRETE
P&S Account Manager - XXXXX

Sch. Start Date - 01-oct-1991
Sch. Finish Date - 07-apr-1992
Pln. Start Date - 01-oct-1991
Pln. Finish Date - 07-apr-1992
Act. Start Date -
Act. Finish Date -

Statement of Work

EXCAVATE AND LOG SOIL FITS [3GFP001]:
Determine vertical distribution and ages of soil deposits.
SURFICIAL MAPPING IN MIDWAY VALLEY [3GFP002]:
Determine lateral distribution of surficial deposits. Locate any recent disruptions of surficial deposits by faults.

| Fiscal Year 1992 | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | Total |
|---------------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| Budgeted Cost of Work Scheduled | | | | | | | | | | | | | |
| Subcontractor Dolla | 17 | 14 | 16 | 17 | 15 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 100 |
| Total BCWS | 17 | 14 | 16 | 17 | 15 | 17 | 4 | 0 | 0 | 0 | 0 | 0 | 100 |

| | Prior | FY1992 | FY1993 | FY1994 | FY1995 | FY1996 | FY1997 | FY1998 | FY1999 | FY2000 | FY2001 | Future | At Complete |
|---------------|-------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|
| Annual Budget | 0 | 100 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 100 |

INFORMATION COPY

Approvals

n/a _____
Summary Account Manager Date

_____ 
P&S Account Manager Date

| | | |
|---|--------------------------------|--------------------------------|
| Summary Account No. - 0G32841C | Summary Account Manager - SWAN | Sch. Start Date - 08-apr-1992 |
| Summary Account Title - 8.3.1.17.4.2.1 Identify Appropriate Trench Location | Type of Effort - DISCRETE | Sch. Finish Date - 08-apr-1993 |
| Status - | | Pln. Start Date - 08-apr-1992 |
| P&S Account No. - 0G32842 | P&S Account Manager - XXXXX | Pln. Finish Date - 08-apr-1993 |
| P&S Account Title - Loc. & Rec. of Fault. Near Prosp. Surf. Facil. | | Act. Start Date - |
| | | Act. Finish Date - |

Statement of Work

CONTINUE SURFICIAL MAPPING IN MIDWAY VALLEY [3GFP003]:
Determine vertical distribution and ages of soil deposits.
WRITE REPORT ON MAPPING MIDWAY VALLEY [3GFP004]:
Produce final map of surficial deposits in Midway Valley and identify faults. Evaluate Quaternary tectonic history of faults and identify locations for trench studies.

PRODUCTS:

REPORT: FINAL GEOLOGIC MAP OF MIDWAY VALLEY - 9/93 [3GFP004M]

| Fiscal Year 1992 | Resource Distributions | | | | | | | | | | | | Total |
|---------------------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | |
| Budgeted Cost of Work Scheduled | | | | | | | | | | | | | |
| Subcontractor Dollars | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 6 | 7 | 7 | 6 | 6 | 37 |
| Total BCWS | 0 | 0 | 0 | 0 | 0 | 0 | 5 | 6 | 7 | 7 | 6 | 6 | 37 |

| | Fiscal Year Distributions | | | | | | | | | | | At Complete | |
|---------------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|-------------|--------|
| | Prior | FY1992 | FY1993 | FY1994 | FY1995 | FY1996 | FY1997 | FY1998 | FY1999 | FY2000 | FY2001 | | Future |
| Annual Budget | 0 | 37 | 38 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 75 |

INFORMATION COPY

Approvals

N/A

Summary Account Manager Date

P&S Account Manager Date

| | | |
|--|--------------------------------|--------------------------------|
| Summary Account No. - 0G3284JB | Summary Account Manager - SWAN | Sch. Start Date - 01-oct-1991 |
| Summary Account Title - 8.3.1.17.4.2.2 Conduct Exploratory Trenching in Mi | Type of Effort - DISCRETE | Sch. Finish Date - 01-jun-1993 |
| Status - | | |
| P&S Account No. - 0G32842 | P&S Account Manager - XXXXX | Pln. Start Date - 01-oct-1991 |
| P&S Account Title - Loc. & Rec. of Fault. Near Prosp. Surf. Facil. | | Pln. Finish Date - 01-jun-1993 |
| | | Act. Start Date - |
| | | Act. Finish Date - |

Statement of Work

WRITE CRITERIA AND ASSEMBLE JOB PACKAGE FOR TRENCHES [3GFP005]
COMPLETE TRENCH LOG ON TRENCH ABR-B [3GFP012]:
Conduct field examination of Trench walls. Make a map showing vertical distribution of units and any faults.
WRITE REPORT ON TRENCH ABR-B [3GFP013]:
Prepare draft of ESF Trench log and Trench 17 log.
EXCAVATE AND LOG TRENCH THROUGH PROPOSED ESF [3GFP007]:
Conduct field examination of Trench walls. Make a map showing vertical distribution of units and any faults.
CLEAN AND LOG TRENCH 17 [3GFP009]:
Remove material sloughed over the walls of Trench 17. Conduct field examination of Trench walls. Make a map showing vertical distribution of units and any faults.
EXCAVATE AND LOG TRENCH A-3 ON PAINTBRUSH FAULT [3GFP010]:
Conduct field examination of Trench walls. Make a map showing vertical distribution of units and any faults.
CONTINUE TO ASSEMBLE JOB PACKAGES FOR TRENCHES [3GFP006]

PRODUCTS:

REPORT: TRENCH ABR-B - 2/92 [3GFP013M]

| Fiscal Year 1992 | Resource Distributions | | | | | | | | | | | | Total |
|---------------------------------|------------------------|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-------|
| | Oct | Nov | Dec | Jan | Feb | Mar | Apr | May | Jun | Jul | Aug | Sep | |
| Budgeted Cost of Work Scheduled | | | | | | | | | | | | | |
| Subcontractor Dolla | 13 | 11 | 13 | 13 | 11 | 13 | 13 | 12 | 13 | 13 | 13 | 13 | 151 |
| Total BCWS | 13 | 11 | 13 | 13 | 11 | 13 | 13 | 12 | 13 | 13 | 13 | 13 | 151 |

| | Fiscal Year Distributions | | | | | | | | | | | At | |
|---------------|---------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|----------|
| | Prior | FY1992 | FY1993 | FY1994 | FY1995 | FY1996 | FY1997 | FY1998 | FY1999 | FY2000 | FY2001 | Future | Complete |
| Annual Budget | 0 | 151 | 99 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 0 | 250 |

INFORMATION COPY

Approvals

N/A

Summary Account Manager Date

P&S Account Manager

Date



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

WBS 1.2.5.3
QA: N/A

JAN 29 1992

Uel S. Clanton, Chief, Site Investigations Branch, RSED, YMP, NV

AMENDED APPROVAL FOR LAND ACCESS AND ENVIRONMENTAL COMPLIANCE FOR MIDWAY
VALLEY SOIL TEST PITS AND TRENCHES

Reference: Ltr, Grassmeier to Clanton, dtd 10/11/91

The referenced letter has been amended to include the following
archaeological and reclamation stipulations:

While conducting an archaeological preactivity survey for a different activity, a previously unrecorded archaeological site was found near proposed Pit MWV-1. Due to the size and type of site and the amount of surface-disturbing activity planned for this area, the archaeological site will be collected on January 27, 1992. This eliminates the need for archaeological stipulations for MWV-1.

Reclamation stipulations include:

Topsoil Salvage: The top 6 to 18 inches (15 to 46 centimeters) of topsoil should be removed from each pit. The exact depth will be determined during excavation by a reclamation specialist.

Topsoil Location: The topsoil should be stored in one or two piles on one side of the pit (see Figure 1). It should be separate from the spoil (subsoil pile).

Topsoil Storage and Management: The depth of the stockpile should be 3 to 4 feet (1 meter) and should not exceed 6 feet (2 meters). The slopes should not exceed 1.5:1 (h:v).

If you have any questions, please contact Mayo E. Ryder at 794-7573.

Kathleen F. Grassmeier, Chief
Operations Control Branch
Project & Operations Control Division

FOCD:MER-1735

Enclosures:

1. Figure 1-Trench Example
2. Ltr, 10/11/91, Grassmeier to Clanton

Uel S. Clanton

-2-

JAN 29 1992

cc w/o encls:

G. A. Fasano, SAIC, Las Vegas, NV
W. R. Jacobs, SAIC, Las Vegas, NV
E. W. McCann, SAIC, Las Vegas, NV
T. H. Pysto, SAIC, Las Vegas, NV
W. K. Ostler, EG&G/EM, Las Vegas, NV
Paul Buck, DRI, Las Vegas, NV
L. C. Pippin, DRI, Reno, NV
W. A. Wilson, YMP, Mercury, NV, M/S 717
W. R. Dixon, YMP, NV
K. F. Grassmeier, YMP, NV

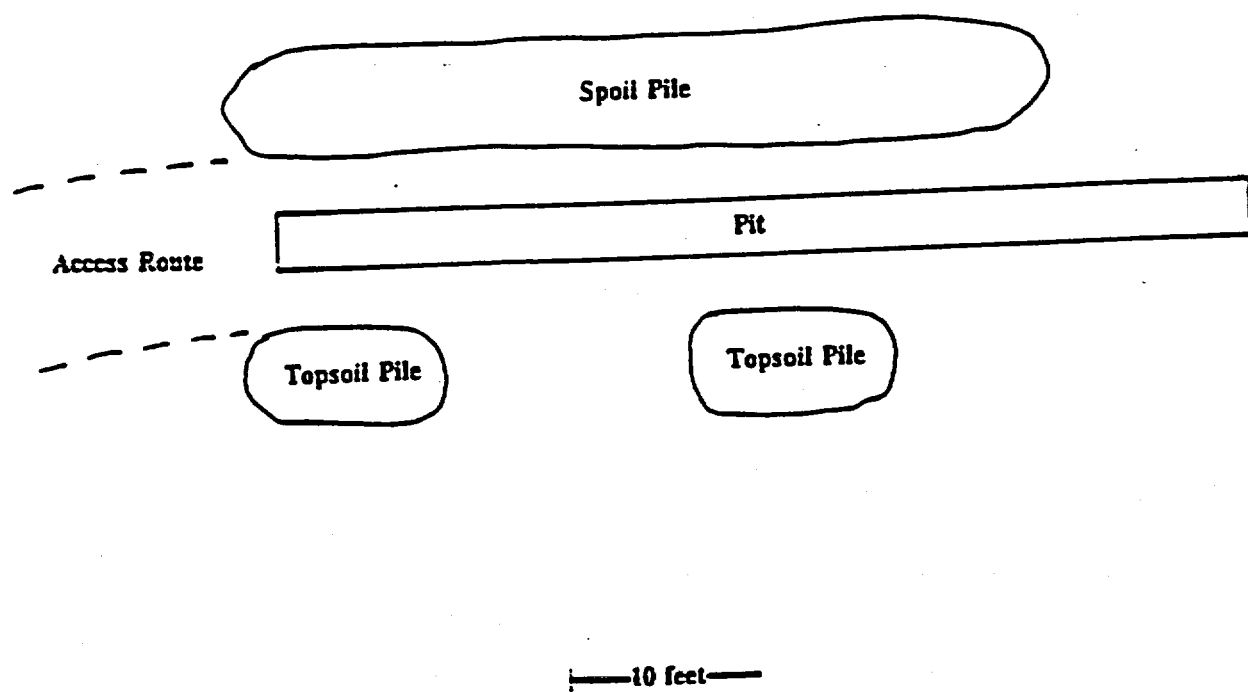


Fig. 1 Approximate dimensions of 12 pits to be excavated in Midway Valley (Area 25), and suggested topsoil and spoil pile locations.



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

WBS 1.2.5.4
QA: N/A

OCI 11 1991

Uel S. Clanton, Chief, Site Investigations Branch, RSED, YMP

**REQUEST FOR LAND ACCESS AND ENVIRONMENTAL COMPLIANCE APPROVAL FOR MIDWAY
VALLEY SOIL TEST PITS AND TRENCHES**

Your submittal for land access and environmental compliance approval for Midway Valley soil test pits has been processed. This letter grants approval for 6 of the 24 soil test pits, which include MWV-P1, MWV-P2, MWV-P3, MWV-P4, MWV-P5, and MWV-P15. The trenches have not been surveyed at this time. The following is provided regarding this activity:

1. The locations of the six soil test pits are on the Nevada Test Site. For access, only U.S. Department of Energy requirements apply.
2. The activity complies with applicable environmental regulatory requirements as defined by the Environmental Regulatory Compliance Plan.
3. The activity does not conflict with Environmental Monitoring and Mitigation Plan commitments. However, identification of any important resources, such as the desert tortoise or Native American artifacts, by field personnel should be reported to the Operations Control Branch (OCB).
4. The biological preactivity survey indicated that the soil test pits are in a common tortoise area. Many of the tortoises in the area are radio marked for study. Several of the sites have the centerline of specific routes into each of the soil test pits, which is flagged with red or orange flagging to minimize disturbance. The access routes are arranged so that all tortoise burrows are a minimum of 9 meters from the flagging. Since this activity is in an area with known tortoise activity, OCB would like to have a biologist present at the time of access of the backhoe, construction of the pit, and exit of the backhoe. The following stipulations are applicable:
 - a. Access to the sites must be along the flagged routes.
 - b. Please notify OCB at least a week before activities begin.
5. The archaeological preactivity survey for the six soil test pits indicated that no important cultural resources will be impacted by the proposed work.

OCT 11 1991

Uel S. Clanton

-2-

6. The radiological preactivity surveys have been completed for the six subject soil test pits.
7. Please notify OCB upon completion of this activity.


On February 9, 1990, the U.S. Fish and Wildlife Service (USFWS) issued a biological opinion for the Yucca Mountain Site Characterization Project. The USFWS found "It is the opinion of the Service that the proposed activities associated with the Yucca Mountain Nuclear Waste Repository Site Characterization Plan are not likely to jeopardize the continued existence of the listed endangered desert tortoise (Gopherus agassizii).". On April 2, 1990, the desert tortoise was determined to be threatened.

This approval incorporates the following stipulations to protect the desert tortoise:

1. Vehicular and equipment traffic is restricted to specifically designated roads. NO OFF ROAD TRAVEL IS PERMITTED ON ROADS NOT CLEARED BY EG&G ENERGY MEASUREMENTS, INC. AND DESERT RESEARCH INSTITUTE (DRI) (see enclosed map of approved roads).
2. All harassment of the desert tortoise is to be avoided. Neither the animal itself nor its burrow should be touched or disturbed. Stay at least ten feet away from any burrow that is six inches or larger. Take special care to avoid hitting animals which may be crossing roads on which vehicle traffic is permitted.
3. All participants working on this activity must have received the environmental training before entering the field.

Access and environmental compliance approval is hereby granted for the excavation of six soil test pits, subject to the conditions specified above. Seven of the eighteen remaining sites are in areas where DRI is conducting archaeological data recovery. Approval will be granted when that activity is complete. Eleven of the remaining eighteen sites are not identified (staked) in the field, but once identified, preactivity surveys and environmental reviews will be initiated.

If you have any questions regarding this activity, contact Chelsea E. Muntean at 794-7580 or Mayo E. Ryder at 794-7573.


Kathleen F. Grassmeier, Chief
Operations Control Branch
Project & Operations Control Division

POCD:CEM-249

Enclosure:
Map of Approved Roads

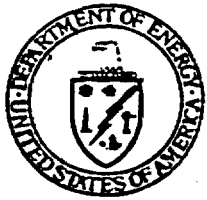
OCT 11 1991

Uel S. Clanton

-3-

cc w/o encl:

W. K. Ostler, EG&G, Las Vegas, NV
E. W. McCann, SAIC, Las Vegas, NV
G. A. Fasano, SAIC, Las Vegas, NV
T. H. Pysto, SAIC, Las Vegas, NV
W. R. Jacobs, SAIC, Las Vegas, NV
L. C. Pippin, DRI, Reno, NV
Paul Buck, DRI, Las Vegas, NV
W. A. Wilson, YMP, Mercury, NV, M/S 717
W. R. Dixon, YMP, NV



T/M

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

WBS 1.2.5.3
QA: N/A

FEB 14 1992

Uel S. Clanton, Chief, Site Investigations Branch, RSED, YMP, NV

AMENDED APPROVAL FOR LAND ACCESS AND ENVIRONMENTAL COMPLIANCE FOR MIDWAY VALLEY SOIL TEST PITS AND TRENCHES

References: (1) Ltr, Grassmeier to Clanton, dtd 10/11/91
(2) Ltr, Grassmeier to Clanton, dtd 1/29/92

Land access and environmental compliance approval for Midway Valley soil test pits and trenches is amended to include five additional soil test pits, MWV 29, MWV 30, MWV 31, MWV 32, and MWV 33. All stipulations (including reclamation) listed in the referenced letters are applicable.

If you have any questions, please contact Mayo E. Ryder at 794-7573.

Kathleen F. Grassmeier, Chief
Operations Control Branch
Project & Operations Control Division

POCD:MER-2050

cc:

W. K. Ostler, EG&G, Las Vegas, NV
E. W. McCann, SAIC, Las Vegas, NV
G. A. Fasano, SAIC, Las Vegas, NV
T. H. Pysto, SAIC, Las Vegas, NV
W. R. Jacobs, SAIC, Las Vegas, NV
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K. F. Grassmeier, YMP, NV