

APPENDIX B10

YMP-FOI-3001

YUCCA MOUNTAIN FIELD TRAINING PROGRAM

9410180389 Part 2

CONFIDENTIAL

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U.S. DEPARTMENT OF ENERGY
FIELD OPERATING INSTRUCTIONS
YUCCA MOUNTAIN SITE CHARACTERIZATION
PROJECT OFFICE

YMP-FOI-3001, REV. 1

3001 YUCCA MOUNTAIN FIELD TRAINING PROGRAM

1. POLICY

A Field Training Program is established to assure that all project participants, contractors, and sub-contractors have been appropriately trained for conducting field activities/operations on the Nevada Test Site (NTS).

2. OBJECTIVES

Establish a Field Training Program for the training of all project participants, providing directions and instructions for performing field activities/operations at the NTS.

Provide documentation of all required field training activities and maintain a training records management system.

This training program is an administrative control only program and is not to be construed as a quality related program.

3. RESPONSIBILITIES AND AUTHORITIES

a. The YMP Site Manager

Responsible for ensuring that an effective field training program is established and maintained through a continuous monitoring and improvement program.

b. Training Department Manager

As directed by the Project Office Training Officer, appoints and directs Field Training staff to support the Yucca Mountain Site Office, and fulfills all field training needs and requirements as directed by the YMP Site Manager.

c. Field Training Staff

- (1) Receives programmatic guidance and direction from the Training Department Manager for the Field Training Program.
- (2) Ensures field training is conducted and documented in accordance with the Project Office Training Program.
- (3) Responsible for the development of the Field Training Program.

- (4) Responsible for the requisitioning of training aids and equipment and the maintenance of same.
- (5) Responsible for developing, scheduling and distributing field training schedules to all project participants and contractors.
- (6) Provides general employee training (GET).
- (7) Coordinates with other project participants as necessary to assure that all field training needs and requirements are fulfilled.
- (8) Responsible for issuing clips and dots for coded site badges to all project participants, contractors, sub-contractors and DOE personnel who complete initial and refresher GET training, respectively.
- (9) Responsible for the proper documentation and records management of the Field Training Program.
- (10) Responsible for notifying project personnel of their annual GET refresher training (henceforth referred to as GET 1.5) requirement.

d. Technical Project Officers (TPO's)

Responsible for ensuring that all their personnel assigned to project field duties/activities have attended and completed the YMSO mandatory field training program before scheduling their personnel for field activities.

4. PROCEDURES AND CONTROLS

- a. General Employee Training (GET) shall be required for those individuals who are physically assigned to the field or who need frequent unescorted access to perform field work.
 - (1) Individuals who do not have GET shall be escorted at all times by an individual who has completed GET.
- b. This training requires the compliance of all project participants, contractors, sub-contractors and DOE personnel assigned to field activities.
 - (1) Similar training programs conducted by other training organizations may not be substituted for this required training.
- c. Maintenance of GET training is achieved by successfully completing annual refresher training (that is, GET 1.5). All project personnel requiring initial GET training must successfully complete this refresher training to continue their field activities.

- d. GET refresher training may be accomplished by passing a written examination following self-study of course material and/or after attending a refresher class. (A "satisfactory" or "unsatisfactory" grade will be given, which will be based on whether a minimum of 70% of the test questions were answered correctly.) Those who fail this examination after self-study are required to: (1) attend a refresher or initial GET training class; and then (2) pass the written examination.
- e. Site visitors may attend GET training before being authorized to visit field work sites. Escorted visitors shall be given a safety briefing by the escorting official.
- f. Job specific training is the responsibility of each project participant and/or contractor as required, consistent with the job.
- g. Original documentation generated by the Field Training Program will be maintained at the Project Office Training Center for turnover to the Local Records Center (LRC). Copies of this documentation will be kept at the Yucca Mountain Site Office.

APPENDIX B11

YMP-FOI-4705

YMP WORK SITE AND AREA
ACCESS AND CONTROLS

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responsible to the Site Manager for oversight and monitoring of work site access and controls to ensure Project Participants and contractors comply with applicable safety and health policies, regulations and procedures.

2. VPO Safety Staff

- (1) Responsible for the implementation of the provisions of this Field Operation Instruction.
- (2) Responsible to ensure clear guidance is provided to Project Participants and contractors regarding their responsibility in executing the access control system and in particular when multiple participants/contractors will be involved at the same work site or area at the same time.

a. VMP Site Manager (SM)

RESPONSIBILITIES AND AUTHORITIES

To establish a system of controls adequate to ensure that protective measures are exercised to meet the requirements identified by project participants to establish and control access to selected work sites and areas. Such control may be required or instituted for reasons of security, for the protection of property, personal health and safety, or maintenance or assure site security, integrity, and to control and/or protect environmental interests. These controls could involve a combination of all or several of these controls at each site or area.

OBJECTIVE

To ensure that adequate controls are established and maintained at selected VPOA Mountain Project field work sites and areas for the purpose of protecting various project interests and for meeting specific requirements that are identified by responsible project officials.

SCOPE

FIELD WORK SITE AND AREA ACCESS AND CONTROLS

U.S. DEPARTMENT OF ENERGY
FIELD OPERATIONS DIVISION
VPOA MOUNTAIN SITE SUPERVISION
PROJECT OFFICE

c. Field Operations Center (FOC) Manager

- (1) Responsible for scheduling and coordinating work site access for all visitors with work site supervision and visitor control.
- (2) Maintains a point-of-contact listing for all work sites/shop supervisors responsible for work site access and controls.
- (3) Maintains a log of all work sites and the controls put in place to control access to these work sites and any special restrictions that may have been placed into effect.

d. ES&MS Field Safety and Health Office

Responsible for the coordination of field safety and health issue associated with all field activities and work site locations.

e. Project Participants/Contractors

- (1) Assure that job site supervisors have been appointed and identified in the Job Package with telephone numbers as to where they can be located.
- (2) Responsible for ensuring that any special instructions/controls for site access have been established and incorporated into the Job Package.
- (3) All revised access site controls or new instructions after issuance of the Job Package must be reported to the FOC.
- (4) Provide the FOC with a detailed list of personnel authorized to approve access if such a list is required; if not, the FOC will authorize access.

4. PROCEDURES AND CONTROLS

- a. Normal access to work areas whether in shop areas or field work sites (drill pads, trenches, construction, mining sites, etc.) are restricted to employees regularly assigned or those having official business. It is the responsibility of site supervision to regulate visitor control (persons not on official business) at all times.

11/8/91

B11-5

MP-5100 - Field Work Activities
MP-5101 - Field Safety and Health Program
MP-5102 - Field Safety and Health Program and Coordination
MP-5103 - Field Personnel and Workers Control Procedures

REFERENCES

Field work areas - any work area where special access and controls are necessary for the protection of property, technical integrity of experiments, and where safety and health of assigned personnel, visitors and the public may be at stake. These work areas include, but are not limited to, the following: building, site, cleaning/exhaustion sites, mining, construction, SWF area, sub-dock area, warehouses and machine shops.

Contractors/contractors - all organizations that are authorized by the NMP to conduct site characterization studies/field activities. These may include DOE, contractors, sub-contractors, and other government and state agencies.

DEFINITIONS

FIELD CHARACTERIZATION PROJECT - FIELD OPERATION INSTRUCTIONS
MP-5101 - FIELD WORK AREA AND AREA ACCESS AND CONTROLS
MP-5102 - FIELD PERSONNEL AND WORKERS CONTROL PROCEDURES

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APPENDIX B12

YMP-FOI-5601

YUCCA MOUNTAIN PERSONNEL AND
VISITORS CONTROL PROCEDURE

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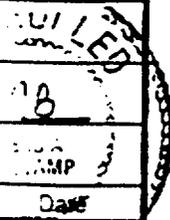
**AUTHORITY TO PUBLISH AND DISTRIBUTE
YUCCA MOUNTAIN PROJECT FIELD OPERATING INSTRUCTIONS**

Y-AD-109
7-90

YMP-FOI Title:

Yucca Mountain Personnel and Visitors
Control Procedures

YMP-FOI No.: YMP-FOI-5601
Date of Submission: 11-5-90



Initiated By: (Responsible office, contact person and phone number)
Robert Simms, YMP, Las Vegas Operations Center 794-7179

From: Yucca Mountain Site Office

Signature _____ Date _____

Routing:	Do Not Concur	Concur	Comments Attached	Signature	Date
1 Manager FOC		✓		<i>Robert Simms</i>	8 Nov 90

Remarks:

Forwarded for Approval.

FOI has been reviewed by YMPO and comments evaluated by YMSO personnel.

INFORMATION COPY

Signature of Approving Officer: *Winfred A. Wilson*
Winfred A. Wilson, YMP, Site Manager

Date: 11-8-90

outside of the YMP dedicated land area without proper NTS badging could face U.S. Government trespassing charges, be dismissed from their job and no longer have access to the YMP land area. The YMP identification and control system will permit security personnel to instantly recognize properly cleared/identified project personnel. NTS badged personnel must have a YMP identification badge in addition to their NTS Badge before entry can be granted into certain restricted YMP areas. An NTS Badge does not authorize NTS personnel into all YMP areas of Area 25.

- (2) NTS Badges shall be worn in the thermoluminescent dosimeter (TLD) holder and conspicuously displayed on the upper portion of the body. YMP identification badges will be conspicuously displayed on the upper portion of the body. They will also be displayed in a thermoluminescent dosimeter (TLD) holder if they work with radioactive materials.
- (3) YMP identification badges shall be surrendered upon request to uniformed security personnel, DOE Security personnel, law enforcement official, DOE/YMP personnel, or FOC supervisory personnel.
- (4) Personal owned cameras, recorders, copying or reproduction devices shall not be taken into the forward area of the NTS without proper authorization. This is to include the YMP dedicated land area or any where outside of Mercury base camp of the NTS. This includes all of Area 25.
- (5) The YMSO Visitor Control Center (receptionist area) main entrance to Building 4015 Area 25 will properly badge project visitors with the proper identification, training and a need or requirement for visitation.
- (6) Training in most cases can be received in the FOC or in some cases the LVOC in Las Vegas. Personnel requesting access to most scientific and construction areas located within Area 25 will need special training requirement certificates before identification badges to the area will be issued. There are no exceptions to this policy.
- (7) Badging for ACCESS to the NTS proper can also be acquired at the Reception Desk upon proper identification and need for such a request. At no time will foreign nationals be issued access to the NTS proper. All foreign nationals visiting the NTS must be approved by DOE/HQ.

b. Visitor Requests

- (1) Any project participant may initiate a NTS Site visit by request. All requests, however, must be submitted to the YMSO for coordination and schedule arrangements.

- (2) Under certain conditions, such as maintenance of ongoing monitoring programs, walking access to off-road sites may be allowed. Field investigators should check with their supervisors to verify that their activity falls within acceptable parameters.
- (3) All harassment of the desert tortoise is to be avoided. Neither the animal itself nor its burrow should be touched or disturbed. Take special care to avoid hitting animals which may be crossing those roads on which vehicle travel is permitted.
- (4) All tours must stop at the FOC Building, 4015, to check in. The Site Manager's designee will perform a head-count, provide a briefing as required based on the itinerary for the visit, and ensure that the appropriate safety gear is issued to each visitor. If any training is required prior to going underground, the Site Manager's designee will direct the tour to the training center.
- (5) The tour guide and/or Site Manager's designee shall assure that non-media visitors do not use cameras, optical instruments, or binoculars and telescopes unless they have the appropriate permits.
- (6) The Site Manager shall ensure that the visitors are aware that they are not allowed to collect any rock, vegetation, or other material specimens from the site.

c. Special Controls

Listed below are specific actions required of all project personnel in order to ensure protection of the desert tortoise and its habitat during the consultation process. These measures as modified and adopted during the consultation process, as well as any other mitigation measures to be developed in consultation with the U.S. Fish and Wildlife Service, will become standard operating practices once the consultation process has been completed. These restrictions will remain in effect until you are notified otherwise.

- (1) Vehicular traffic is restricted to only the main and secondary roads. Main and secondary roads are defined as those roads which are paved or graveled, and which are regularly maintained. No off-road vehicle or equipment traffic is allowed. This condition must be strictly adhered to by all field personnel in order to avoid possible damage to the desert tortoise, its habitat or to burrows that may be occupied by the species.
- (2) Under certain conditions, such as maintenance of ongoing monitoring programs, walking access to off-road sites will be allowed. Field investigators should check with their supervisors to verify that their activity falls within acceptable parameters.
- (3) All harassment of the desert tortoise is to be avoided. Neither the animal itself nor its burrow should be touched or disturbed. Take special care to avoid hitting animals which may be crossing those roads on which vehicle travel is permitted.

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- (4) If a desert tortoise is seen at the Yucca Mountain site, the sighting and location should be reported to the activity supervisor and the Project Office within 24 hours (contact FOC 295-5915).

Harassment of the desert tortoise could result in fines and jail sentences for individuals. These restrictions are part of our continuing effort to protect the desert tortoise.

d. Property Control

- (1) A complete list of equipment to be taken on to the NTS must be provided to the FOC upon reporting into the YMSO. The FOC will issue a property removal pass for the proper removal of personal property from the test site. If you have any problems, please notify 295-5915.
- (2) All rock samples leaving the NTS must be accompanied by a property removal form bearing a radioactive clearance sticker authorizing the material to be removed from the test site.

e. Entry into USAF Gunnery Ranges

The FOC coordinates all project participant requests requiring air space and/or land penetrations into the Nellis Bombing and Gunnery Range. Entry will be restricted to those who are participating in support of the project or site characterization activities. All personnel entering the Nellis Bombing and Gunnery Range must first report in to the FOC to double check that they have Air Force approval and to pick up radios if they do not have them. All parties entering into any off site or remote NTS areas must have a two-way radio with them.

f. BLM and Air Force

Right-of-Way land access must also be coordinated thru the FOC, not to be approved or disapproved but for the ingress parties welfare and contact in cases of emergency. These parties must also have radios in their possession when entering into these areas.

- g. Instruction for arrangements of YMP NTS tours will be contained in a separate FOI.

5. REFERENCES

- a. NTS-SOP-1202 Visits to NTS and Test Observation
b. NTS-SOP-4401 Personal Property
c. NTS-SOP-5602 General Security Operations
d. NTS-SOP-5603 Physical Protection of Classified Matter
e. DOE/NV Orders 5600 Series

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APPENDIX C1

AIR QUALITY PERMIT TO CONSTRUCT
NO. 2693

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STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
123 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 269:

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, NEVADA OPERATIONS OFFICE
P.O. Box 98518, LAS VEGAS, NEVADA 89193-8518
Location: T13S, R49E; T13S, R50E; MDS&M (HA 227A)

is granted a permit to construct, modify or establish the following source of air contaminant:

Surface area disturbance, Nevada Nuclear Waste Storage Investigation Project, consisting of: roads, surface facilities, storage areas, parking and power magazines, electrical substations, waste rock storage pit, mine waste-water ponds, beach plant area, sewage treatment plant, borrow areas, topped storage area - 18.2 hectares (45.0 acres); drill pads - 62.7 hectares (146.0 acres); roads - 60.8 hectares (128.0 acres); seismic surveys - 2.0 hectares (70.0 acres); trenches, pits and pavements - 4.0 hectares (15.0 acres); drill holes without pads - 2.0 hectares (8.0 acres); miscellaneous disturbances - 24.3 hectares (60.0 acres) for a total of 188.1 hectares (468 acres);

in accordance with Nevada Administrative Code (NAC) 445.430 through 445.846 and the plan specifications or other materials submitted.

Restrictions:

1. Fugitive dust from all disturbed areas must be controlled at all times. As a minimum water and/or chemical stabilizer or other controls approved in advance by the Bureau of Air Quality must be utilized 24 hours per day, 365 days per year.
2. Fugitive dust from roads and parking areas shall be controlled by paving and/or graveling as indicated on Map 4 entitled "Expanded View of E37 Show on Map 3", hereby incorporated as part of this permit to construct.
3. The contractor/owner may not clear more land than can be controlled by the methods specified in Permit Restrictions #1 & 2.
4. The Bureau of Air Quality must be notified in writing of commencement of construction, completion of construction, commencement of operation in accordance with Nevada Administrative Code 445.481.
5. Local grazing, building, health or any other permits must be obtained from the appropriate agency as the issuance of this permit to construct does not preclude the necessity for their procurement.
6. This permit to construct expires if construction of the source is not commenced within one year from the date of issue or construction of the source is delayed for one year after initiated.
7. The U.S. Department of Energy must sample the ambient air for PM₁₀ and monitor and record wind speed, direction, and ambient temperature in accordance with the requirements in Attachment A (Rev. April 23, 1991) and documents listed therein. Sampling and monitoring must be conducted during construction and for at least one year after operation commences. Findings must be submitted to the Bureau of Air Quality within 60 days after the end of each quarter. After the first year of operation further monitoring may be required upon review of the data.
8. Any person who:
 - A. makes any false material statement, representation, or certification in, or omits material information from, or alters, permits or director;
 - B. fails to notify or report as required by the permit or director;
 - C. falsifies, tamers with, renders inaccurate, or fails to install any monitoring device or method required by the permit or director;

shall constitute a violation of this permit and will result in a revocation of this permit.

C1-1

Page 1 of 2

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
123 WEST WYE LAKE
CARSON CITY, NEVADA 89730

NO. 2693

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, NEVADA OPERATIONS OFFICE
P.O. BOX 98518, LAS VEGAS, NEVADA 89193-8518
Location: T13S, R49E; T13S, R50E; MDB&M (HA 227A)

Restrictions Continued:

9. The proposed facility is subject to and must comply with the Clean Air Act, including the provisions of the 1990 amendments and any regulations adopted by the Federal Government and/or the State of Nevada pursuant thereto.
10. The blue copy of this permit must be signed and returned to the Bureau of Air Quality postmarked within ten days of receipt. Failure to do so will result in this permit being invalidated.

This permit:

1. Is non-transferable in accordance with NAC 445.704.
2. Is issued on condition that the holder allows inspection of the premises by authorized representative of the department at any time during hours of construction or operation, without prior notice.
3. Is issued on condition of acceptance of all restrictions and conditions contained on this permit evidenced by the signing hereof by an authorized representative.

Signature Lowell H. Shifley, Jr.
Issued by Lowell H. Shifley, Jr., P.E.
Chief, Bureau of Air Quality

Signature _____
Print Name _____
Authorized Representative of
U.S. Department of Energy

Phone 687-5065 Date June 12, 1991 Phone _____ Date _____

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APPENDIX C2

AIR QUALITY PERMIT TO CONSTRUCT
NO. 2893

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
123 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 289

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. Box 98608, LAS VEGAS, NEVADA 89193-8608

Location: T13S, R49E, MDB&M (HA 227A)
N4076.94 KM, E548.06 KM, UTM (ZONE 11)

is granted a permit to construct, modify or establish the following source of air contaminant:

Cummins 600 horsepower portable engine, model FPC DE66007, serial #37129213.

in accordance with Nevada Administrative Code (NAC) 445.430 through 445.846 and the pla specifications or other materials submitted.

Restrictions:

1. Maximum heat input must not exceed 3,769,600 Btu's per hour, utilizing #2 diesel as fuel.
2. Source must not operate in excess of 7,104 hours per calendar year.
3. The maximum allowable emission limits are as follows:
 - Particulates - 1.32 pounds per hour
 - Sulfur oxide - 1.23 pounds per hour
 - Carbon monoxide - 4.00 pounds per hour
 - Nitrogen oxide - 18.68 pounds per hour
4. Yearly consumption of #2 diesel and hours of operation must be submitted in writing to the Bureau of Air Quality by 15 annually for the preceding calendar year.
5. The Bureau of Air Quality must be notified in writing of commencement of construction, completion of construction, commencement of operation in accordance with NAC 445.681.
6. Local grading, building, health or any other permits must be obtained from the appropriate agency as the issuance of permit to construct does not preclude the necessity for their procurement.
7. The owner/operator subject to the restrictions of this Permit to Construct shall cease operation when an upset or malfunction to the process or control equipment causes excess emissions, as defined in NAC 445.504.
8. This permit to construct expires if construction of the source is not commenced within one year from the date of iss or construction of the source is delayed for one year after initiated.
9. The opacity from this source must not exceed 20% as specified in the NAC.
10. The act of any person who:
 - A. makes any false material statement, representation, or certification in, or omits material information from, or at conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required t permit or director;
 - B. fails to notify or report as required by the permit or director;
 - C. falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required by the r or director;shall constitute a violation of this permit and may result in a revocation of this permit.

C2-1

Page 1 of 2

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REPUBLIC OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
123 WEST NYE LANE
CARSON CITY, NEVADA 89710

284
NO. 2E

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. BOX 98608, LAS VEGAS, NEVADA 89193-8608

Location: T13S, R49E, MOB&M (HA 227A)
N4076.94 KM, E548.06 KM, UTM (ZONE 11)

Restrictions Continued:

11. Any relaxation of any limits contained in this permit that increases the potential to emit above the application threshold will require a full PSD/NSR review of the source as though construction had not yet commenced.
12. The proposed facility is subject to and must comply with the Clean Air Act, including the provisions of the 1990 act and any regulations adopted by the federal Government and/or the State of Nevada pursuant thereto.
13. The blue copy of this permit must be signed and returned to the Bureau of Air Quality postmarked within ten days of failure to do so will result in this permit being invalidated.

This permit:

1. Is non-transferable in accordance with NAC 445.704.
2. Is issued on condition that the holder allows inspection of the premises by authorized representative of the department at any time during hours of construction or operation, without prior notice.
3. Is issued on condition of acceptance of all restrictions and conditions contained on this permit evidenced by the signing hereof by an authorized representative.

Signature Lowell H. Shifley, Jr.
Issued by Lowell H. Shifley, Jr., P.E.
Chief, Bureau of Air Quality

Signature _____
Print Name _____
Authorized Representative of
U.S. Department of Energy

Phone 687-5065 Date Nov. 4, 1991 Phone _____ Date _____

C2-2

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APPENDIX C3

AIR QUALITY PERMIT TO CONSTRUCT
NO. 3084

3084

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3084

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: UNITED STATES DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. Box 98608, LAS VEGAS, NV 89193-8608

Location: SECTION 19, T13S, R50E (HA 227)
NORTH 4074.55 KM, EAST 554.19 KM, UTM (ZONE 11)

is granted a permit to construct, modify or establish the following source of air contaminant:

Screen borrow, Reynolds Electrical and Engineering manufacturer.

in accordance with Nevada Administrative Code (NAC) 445.430 through 445.846 and the plans, specifications or other materials submitted.

Restrictions:

1. Facilities Operation

All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of the Permit to Construct will at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions.

The owner/operator subject to the restrictions of this Permit to Construct will cease operation when an upset or malfunction to the process or control equipment occurs.

2. Excess Emissions

The Bureau of Air Quality will be notified by telephone within 24 hours following any failure of air pollution control equipment, process equipment, or of a process, to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in the Permit to Construct restrictions. In addition, the Bureau of Air Quality will be notified in writing within fifteen (15) days of any such failure. This notification will include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the Permit to Construct, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision will not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulation which such malfunction may cause.

3. Right to Entry

The Bureau of Air Quality staff, upon the presentation of credentials, will be permitted at any time:

- A. to enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of the Permit to Construct;
- B. to have access to and copy any records required to be kept under the terms and conditions of the Permit to Construct;
- C. to inspect any equipment, operation, or method required in the Permit to Construct;
- D. to sample emissions from the source or other process materials and conditions.

4. Severability

The provisions of the Permit to Construct are severable, and if any provision of the Permit to Construct is held invalid the remainder of the Permit to Construct will not be affected thereby.

5. Other Applicable Regulations

The owner or operator of the facility will operate in compliance with all other applicable provisions of 40 CFR Parts 60 & 61 and Nevada Administrative Code 445.430 through 445.846.

C3-1

Page 1 of 3

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STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3084

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: UNITED STATES DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. BOX 98608, LAS VEGAS, NV 89193-8608

Location: SECTION 19, T13S, R50E (HA277)
NORTH 4074.55 KM, EAST 554.19 KM, UTM (ZONE 11)

Restrictions Continued:

6. Air Pollution Equipment

U.S. - Department of Energy will operate and maintain the following air pollution controls to meet the emission limits specified in Section 7 (Emission Limits) of this Permit to Construct.

Control system consisting of water sprays.

7. Emission Limits

On and after the date of startup of the borrow screen, U.S. - Department of Energy will not discharge or cause the discharge into the atmosphere from the borrow screen, the following pollutants in excess of the following specified-limits:

- A. The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed 4.8 pounds per hour.
- B. The opacity from the borrow screen will not exceed 20%.

8. Operating Parameters

A. Maximum production will not exceed 200 tons per hour.

B. HOURS

- (1) The borrow screen will not operate in excess of 8 hours per day.
- (2) The borrow screen will not operate more than 1560 hours total per calendar year.

C. Yearly production and hours of operation will be submitted in writing to the Bureau of Air Quality by April 15 annual for the preceding calendar year.

9. Testing and Sampling

A. The Bureau of Air Quality may require such testing and sampling as determined necessary, at any time, to verify compliance with NAC 445.430 through 445.846.

10. Noncompliance with any restrictions of the Permit to Construct (defined in Nevada Administrative Code 445.5635) will be deemed a violation of Nevada Administrative Code 445.430 through 445.846 and a notice of Alleged Violation may be issued.

11. Fugitive dust from the handling, transporting or storing of any material will be controlled.

12. The Bureau of Air Quality will be notified in writing of commencement of construction, completion of construction, and commencement of operation in accordance with NAC 445.681.

13. The owner/operator subject to the restrictions of this Permit to Construct will cease operation when an upset or malfunction to the process or control equipment occurs.

14. Local grading, building, health or any other permits will be obtained from the appropriate agency as the issuance of this Permit to Construct does not preclude the necessity for their procurement. This permit does not cover any possible requirements water quality or hazardous waste permits that may be required by Nevada statutes or regulations.

C3-2

Page 2 of 3

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STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3084

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: UNITED STATES DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. BOX 98608, LAS VEGAS, NV 89193-8608

Location: SECTION 19, T13S, R50E (HA227)
NORTH 4074.55 KM, EAST 554.19 KM, UTM (ZONE 11)

Restrictions Continued:

15. This Permit to Construct expires if construction of the source is not commenced and pursued diligently within one year from the date of issuance or construction of the source is delayed for one year after initiated.
16. The act of any person who:
 - A. makes any false material statement, representation, or certification in, or omits material information from, or alters, conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required by the permit or director;
 - B. fails to notify or report as required by the permit or director;
 - C. falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required by the permit or director;will constitute a violation of this permit and may result in a revocation of this permit.
17. Any relaxation of any limits contained in this permit that increases the potential to emit above the application PSD/NSR threshold will require a full PSD/NSR review of the source as though construction had not yet commenced.
18. The proposed facility is subject to and must comply with the Clean Air Act, including the provisions of the 1990 amendment and any regulations adopted by the Federal Government and/or the State of Nevada pursuant thereto.
19. The blue copy of this permit will be signed and returned to the Bureau of Air Quality postmarked within ten days of receipt failure to do so will result in this permit being invalidated.

This permit:

1. Is non-transferable in accordance with NAC 445.704.
2. Is issued on condition that the holder allows inspection of the premises by authorized representatives of the department at any time during hours of construction or operation, without prior notice.
3. Is issued on condition of acceptance of all restrictions and conditions contained on this permit evidenced by the signing hereof by an authorized representative.

Signature Lowell H. Shifley, Jr.
Issued by Lowell H. Shifley, Jr., P.E.
Chief, Bureau of Air Quality

Signature _____
Print Name _____
Authorized Representative of
U.S. Department of Energy

Phone 687-5065 Date June 8, 1992 Phone _____ Date _____

C3-3

Page 3 of 3

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APPENDIX C4

AIR QUALITY PERMIT TO CONSTRUCT
NO. 3197

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3197

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. Box 98608, LAS VEGAS, NEVADA 89193-8608

Location: PORTABLE

is granted a permit to construct, modify or establish the following source of air contaminant:

Kolberg screening plant, Series 26, and associated conveyors.

in accordance with Nevada Administrative Code (NAC) 445.430 through 445.846 and the plans, specifications or other materials submitted.

Restrictions:

1. Facilities Operation

All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of the Permit to Construct will at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions.

2. Excess Emissions

The Bureau of Air Quality will be notified by telephone within 24 hours following any failure of air pollution control equipment, process equipment, or of a process, to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in the Permit to Construct restrictions. In addition, the Bureau of Air Quality will be notified in writing within fifteen (15) days of any such failure. This notification will include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the Permit to Construct, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision will not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulation which such malfunction may cause.

3. Right to Entry

The Bureau of Air Quality staff, upon the presentation of credentials, will be permitted at any time:

- A. to enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of the Permit to Construct;
- B. to have access to and copy any records required to be kept under the terms and conditions of the Permit to Construct;
- C. to inspect any equipment, operation, or method required in the Permit to Construct;
- D. to sample emissions from the source or other process materials and conditions.

4. Severability

The provisions of the Permit to Construct are severable, and if any provision of the Permit to Construct is held invalid the remainder of the Permit to Construct will not be affected thereby.

5. Other Applicable Regulations

The owner or operator of the facility will operate in compliance with all other applicable provisions of 40 CFR Parts 60 and 61 and Nevada Administrative Code 445.430 through 445.846.

C4-1

Page 1 of 3

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3197

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. Box 98608, LAS VEGAS, NEVADA 89193-8608

Location: PORTABLE

Restrictions Continued:

6. Air Pollution Equipment

The U.S. Department of Energy will operate and maintain the following air pollution controls to meet the emission limits specified in Section 7 (Emission Limits) of this Permit to Construct.

Control system consisting of water sprays

7. Emission Limits

On and after the date of startup of the screening plant, the Department of Energy will not discharge or cause the discharge into the atmosphere from the screening plant, the following pollutants in excess of the following specified limits:

- A. The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed 12.60 pound per hour.
- B. The opacity from the screening plant into the atmosphere will not exceed 20%.

8. Operating Parameters

- A. Maximum production will not exceed 350.00 tons per hour.

B. Hours

- (1) The screening plant will not operate in excess of 8 hours per day.
- (2) The screening plant will not operate more than 2,000 hours total per calendar year.

C. The specified maximum throughput, emission limit, and pollution controls only apply when the screening plant is operating as a single unit. The maximum throughput, emission limit, and pollution controls may be modified when this source operated in conjunction with other portable or stationary sources. Any restrictions specified on a Site Specific Permit Attachment supersede those contained in this permit if more stringent.

D. Actual production and hours of operation must be submitted in writing to the Bureau of Air Quality within 30 days of completion of each job.

9. Testing and Sampling

The Bureau of Air Quality may require such testing and sampling as determined necessary, at any time, to verify compliance with NAC 445.430 through 445.846.

10. Noncompliance with any restrictions of the Permit to Construct (defined in Nevada Administrative Code 445.5635) will be deemed a violation of Nevada Administrative Code 445.430 through 445.846 and a Notice of Alleged Violation may be issued.
11. Fugitive dust from the handling, transporting or storing of any material will be controlled.
12. The Bureau of Air Quality will be notified in writing of commencement of construction, completion of construction, and commencement of operation in accordance with NAC 445.681.
13. The owner/operator subject to the restrictions of this Permit to Construct will cease operation when an upset or malfunction to the process or control equipment occurs.
14. Local grading, building, health or any other permits will be obtained from the appropriate agency as the issuance of this Permit to Construct does not preclude the necessity for their procurement. This permit does not cover any possible requirements: water quality or hazardous waste permits that may be required by Nevada statutes or regulations.

C4-2

Page 2 of 3

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3197

AIR QUALITY PERMIT TO CONSTRUCT

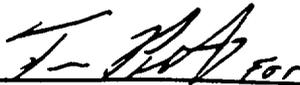
Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. Box 98608, LAS VEGAS, NEVADA 89193-8608
Location: PORTABLE

Restrictions Continued:

15. This Permit to Construct expires if construction of the source is not commenced and pursued diligently within one year from the date of issuance or construction of the source is delayed for one year after initiated.
16. The act of any person who:
 - A. makes any false material statement, representation, or certification in, or omits material information from, or alters concepts, or fails to file or maintain any notice, application, record, report, plan, or other document required by the permit or director;
 - B. fails to notify or report as required by the permit or director;
 - C. falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required by the permit or director;will constitute a violation of this permit and may result in a revocation of this permit.
17. Any relaxation of any limits contained in this permit that increases the potential to emit above the applicable PSD/MSR threshold will require a full PSD/MSR review of the source as though construction had not yet commenced.
The proposed facility is subject to and must comply with the Clean Air Act, including the provisions of the 1990 amendment and any regulations adopted by the Federal Government and/or the State of Nevada pursuant thereto.
19. The blue copy of this permit will be signed and returned to the Bureau of Air Quality postmarked within ten days of receipt failure to do so will result in this permit being invalidated.

This permit:

1. Is non-transferable in accordance with NAC 445.704.
2. Is issued on condition that the holder allows inspection of the premises by authorized representatives of the department at any time during hours of construction or operation, without prior notice.
3. Is issued on condition of acceptance of all restrictions and conditions contained on this permit as evidenced by the signing hereof by an authorized representative.

Signature 
Issued by Lowell H. Shifley, Jr., P.E.
Chief, Bureau of Air Quality

Signature _____
Print Name _____
Authorized Representative of
Department of Energy

Phone 687-5065 Date Sept. 21, 1992

Phone _____ Date _____

C4-3

Page 3 of 3

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APPENDIX C5

AIR QUALITY PERMIT TO CONSTRUCT
NO. 3198

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3198

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. Box 98608, LAS VEGAS, NEVADA 89193-8608
Location: PORTABLE

is granted a permit to construct, modify or establish the following source of air contaminant:

Adas-Cooco air compressors (2), skid mounted, model 71837000, serial #86078-18VA017963 and #86078-18VA017966, each rated at 53 horsepower.

in accordance with Nevada Administrative Code (NAC) 445.430 through 445.846 and the plans specifications or other materials submitted.

Restrictions:

1. Facilities Operation

All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of the Permit to Construct will at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions.

2. Excess Emissions

The Bureau of Air Quality will be notified by telephone within 24 hours following any failure of air pollution control equipment, process equipment, or of a process, to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in the Permit to Construct restrictions. In addition, the Bureau of Air Quality will be notified in writing within fifteen (15) days of any such failure. This notification will include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the Permit to Construct, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision will not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulation which such malfunction may cause.

3. Right to Entry

The Bureau of Air Quality staff, upon the presentation of credentials, will be permitted at any time:

- A. to enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of the Permit to Construct;
- B. to have access to and copy any records required to be kept under the terms and conditions of the Permit to Construct;
- C. to inspect any equipment, operation, or method required in the Permit to Construct;
- D. to sample emissions from the source or other process materials and conditions.

4. Severability

The provisions of the Permit to Construct are severable, and if any provision of the Permit to Construct is held invalid the remainder of the Permit to Construct will not be affected thereby.

5. Other Applicable Regulations

The owner or operator of the facility will operate in compliance with all other applicable provisions of 40 CFR Parts 60 or 51 and Nevada Administrative Code 445.430 through 445.846.

6. Air Pollution Equipment

The Department of Energy will operate and maintain the compressors to meet the emission limits as specified in Section (Emission Limits) of this Permit to Construct.

C5-1

Page 1 of 3

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3198

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. Box 98608, LAS VEGAS, NEVADA 89193-8608
Location: PORTABLE

Restrictions Continued:

7. Emission Limits

On and after the date of startup of the two air compressors, the Department of Energy will not discharge or cause the discharge into the atmosphere from the exhaust stack of the air compressors, the following pollutants in excess of the following specific limits:

1. The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere from both compressors will not exceed 2.36 pounds per hour (1.17 pounds per hour per compressor).
2. The opacity from each compressor into the atmosphere will not exceed 20%.
3. The discharge of sulfur oxides to the atmosphere from both compressors will not exceed 2.18 pounds per hour (1.09 pounds per hour per compressor).
4. The discharge of carbon monoxide to the atmosphere from both compressors will not exceed 7.10 pounds per hour (3.55 pounds per hour per compressor).
5. The discharge of nitrogen oxides to the atmosphere from both compressors will not exceed 32.76 pounds per hour (16.38 pounds per hour per compressor).

8. Operating Parameters

- A. Maximum horsepower will not exceed 532 horsepower per compressor.
- B. Hours
 - (1) Each compressor will not operate in excess of 6 hours per day.
 - (2) Each compressor will not operate more than 1,560 hours total per calendar year.
- C. Actual production and hours of operation must be submitted in writing to the Bureau of Air Quality within 30 days completion of each job.

9. Testing and Sampling

The Bureau of Air Quality may require such testing and sampling as determined necessary, at any time, to verify compliance with NAC 445.430 through 445.846.

10. Noncompliance with any restrictions of the Permit to Construct (defined in Nevada Administrative Code 445.5635) will be deemed a violation of Nevada Administrative Code 445.430 through 445.846 and a Notice of Alleged Violation may be issued.
11. Fugitive dust from the handling, transporting or storing of any material will be controlled.
12. The Bureau of Air Quality will be notified in writing of commencement of construction, completion of construction, and commencement of operation in accordance with NAC 445.681.
13. The owner/operator subject to the restrictions of this Permit to Construct will cease operation when an upset or malfunction to the process or control equipment occurs.
14. Local grading, building, health or any other permits will be obtained from the appropriate agency as the issuance of this Permit to Construct does not preclude the necessity for their procurement. This permit does not cover any possible requirements water quality or hazardous waste permits that may be required by Nevada statutes or regulations.

C5-2

Page 2 of 3

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3198

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. BOX 98608, LAS VEGAS, NEVADA 89193-8608

Location: PORTABLE

Restrictions Continued:

15. This Permit to Construct expires if construction of the source is not commenced and pursued diligently within one year from the date of issuance or construction of the source is delayed for one year after initiated.
16. The act of any person who:
 - A. makes any false material statement, representation, or certification in, or omits material information from, or alter conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required by this permit or director;
 - B. fails to notify or report as required by the permit or director;
 - C. falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required by the permit or director;will constitute a violation of this permit and may result in a revocation of this permit.
17. Any relaxation of any limits contained in this permit that increases the potential to emit above the applicable PSD/h threshold will require a full PSD/MSR review of the source as though construction had not yet commenced.
 - A. The proposed facility is subject to and must comply with the Clean Air Act, including the provisions of the 1990 amendment and any regulations adopted by the Federal Government and/or the State of Nevada pursuant thereto.
19. The blue copy of this permit will be signed and returned to the Bureau of Air Quality postmarked within ten days of receipt. Failure to do so will result in this permit being invalidated.

This permit:

1. Is non-transferable in accordance with NAC 445.704.
2. Is issued on condition that the holder allows inspection of the premises by authorized representatives of the department at any time during hours of construction or operation, without prior notice.
3. Is issued on condition of acceptance of all restrictions and conditions contained on this permit evidenced by the signing hereof by an authorized representative.

Signature *L. H. Shifley, Jr.*
Issued by Lowell H. Shifley, Jr., P.E.
Chief, Bureau of Air Quality

Signature _____
Print Name _____
Authorized Representative of
Department of Energy

Phone 687-5065 Date Sept. 21, 1992 Phone _____ Date _____

C5-3

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STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3199

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. BOX 98608, LAS VEGAS, NEVADA 89193-8608

Location: PORTABLE

is granted a permit to construct, modify or establish the following source of air contaminant:

Atlas-Copco air compressors (2), skid mounted, model 71837000, serial #88079-16VA017981 and #88079-16VA017892, each rated at 532 horsepower.

in accordance with Nevada Administrative Code (NAC) 445.430 through 445.846 and the plans, specifications or other materials submitted.

Restrictions:

1. Facilities Operation

All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of the Permit to Construct will at all times be maintained in good working order and be operated as efficiently as possible so as to minimize air pollutant emissions.

2. Excess Emissions

The Bureau of Air Quality will be notified by telephone within 24 hours following any failure of air pollution control equipment, process equipment, or of a process, to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in the Permit to Construct restrictions. In addition, the Bureau of Air Quality will be notified in writing within fifteen (15) days of any such failure. This notification will include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the Permit to Construct, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision will not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulation which such malfunction may cause.

3. Right to Entry

The Bureau of Air Quality staff, upon the presentation of credentials, will be permitted at any time:

- A. to enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of the Permit to Construct;
- B. to have access to and copy any records required to be kept under the terms and conditions of the Permit to Construct;
- C. to inspect any equipment, operation, or method required in the Permit to Construct;
- D. to sample emissions from the source or other process materials and conditions.

4. Severability

The provisions of the Permit to Construct are severable, and if any provision of the Permit to Construct is held invalid the remainder of the Permit to Construct will not be affected thereby.

5. Other Applicable Regulations

The owner or operator of the facility will operate in compliance with all other applicable provisions of 40 CFR Parts 60 and 61 and Nevada Administrative Code 445.430 through 445.846.

6. Air Pollution Equipment

The Department of Energy will operate and maintain the compressors to meet the emission limits as specified in Section (Emission Limits) of this Permit to Construct.

C6-1

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3199

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. Box 98608, LAS VEGAS, NEVADA 89193-8608
Location: PORTABLE

Restrictions Continued:

7. Emission Limits

On and after the date of startup of the two air compressors, the Department of Energy will not discharge or cause the discharge into the atmosphere from the exhaust stack of the air compressors, the following pollutants in excess of the following specific limits:

- A. The discharge of PM₁₀ (particulate matter less than 10 microns in diameter) to the atmosphere from both compressors will not exceed 2.34 pounds per hour (1.17 pounds per hour per compressor).
- B. The opacity from each compressor into the atmosphere will not exceed 20%.
- C. The discharge of sulfur oxides to the atmosphere from both compressors will not exceed 2.18 pounds per hour (1.09 pounds per hour per compressor).
- D. The discharge of carbon monoxide to the atmosphere from both compressors will not exceed 7.10 pounds per hour (3.55 pounds per hour per compressor).
- E. The discharge of nitrogen oxides to the atmosphere from both compressors will not exceed 32.76 pounds per hour (16.38 pounds per hour per compressor).

8. Operating Parameters

- A. Maximum horsepower will not exceed 532 horsepower per compressor.
- B. Hours
 - (1) Each compressor will not operate in excess of 6 hours per day.
 - (2) Each compressor will not operate more than 1,560 hours total per calendar year.
- C. Actual production and hours of operation must be submitted in writing to the Bureau of Air Quality within 30 days of completion of each job.

9. Testing and Sampling

The Bureau of Air Quality may require such testing and sampling as determined necessary, at any time, to verify compliance with MAC 445.630 through 445.646.

10. Noncompliance with any restrictions of the Permit to Construct (defined in Nevada Administrative Code 445.5635) will be deemed a violation of Nevada Administrative Code 445.630 through 445.646 and a Notice of Alleged Violation may be issued.
11. Fugitive dust from the handling, transporting or storing of any material will be controlled.
12. The Bureau of Air Quality will be notified in writing of commencement of construction, completion of construction, and commencement of operation in accordance with MAC 445.681.
13. The owner/operator subject to the restrictions of this Permit to Construct will cease operation when an upset or malfunction to the process or control equipment occurs.
14. Local grading, building, health or any other permits will be obtained from the appropriate agency as the issuance of this Permit to Construct does not preclude the necessity for their procurement. This permit does not cover any possible requirements for water quality or hazardous waste permits that may be required by Nevada statutes or regulations.

C6-2

Page 2 of 3

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3199

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. BOX 98608, LAS VEGAS, NEVADA 89193-8608

Location: PORTABLE

Restrictions Continued:

15. This Permit to Construct expires if construction of the source is not commenced and pursued diligently within one year from the date of issuance or construction of the source is delayed for one year after initiated.
16. The act of any person who:
 1. makes any false material statement, representation, or certification in, or omits material information from, or alter conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required by this permit or director;
 2. fails to notify or report as required by the permit or director;
 3. falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required by the permit or director;will constitute a violation of this permit and may result in a revocation of this permit.
17. Any relaxation of any limits contained in this permit that increases the potential to emit above the applicable PSD/A threshold will require a full PSD/MSR review of the source as though construction had not yet commenced.
18. The proposed facility is subject to and must comply with the Clean Air Act, including the provisions of the 1990 amendment and any regulations adopted by the Federal Government and/or the State of Nevada pursuant thereto.
19. The blue copy of this permit will be signed and returned to the Bureau of Air Quality postmarked within ten days of receipt. Failure to do so will result in this permit being invalidated.

This permit:

1. Is non-transferable in accordance with NAC 445.704.
2. Is issued on condition that the holder allows inspection of the premises by authorized representatives of the department at any time during hours of construction or operation, without prior notice.
3. Is issued on condition of acceptance of all restrictions and conditions contained on this permit evidenced by the signing hereof by an authorized representative.

Signature 
Issued by Lowell H. Shifley, Jr., P.E.
Chief, Bureau of Air Quality

Signature _____
Print Name _____
Authorized Representative of
Department of Energy

Phone 687-5065 Date Sept. 21, 1992

Phone _____ Date _____
C6-3

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STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3267

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. Box 98608, LAS VEGAS, NEVADA 89193-8608

Location: PORTABLE

Restrictions Continued:

6. Air Pollution Equipment

The Department of Energy will operate and maintain the following air pollution controls during all times the above referenced sources are operational, in accordance with NAC 445.664, to meet the emission limits as specified in Section 7 (Emission Limits) of this Permit to Construct.

Control system consisting of water sprays

7. Emission Limits

On and after the date of startup of the cone plant, the Department of Energy will not discharge or cause the discharge into the atmosphere from the cone plant the following pollutants in excess of the following specified limits:

- A. The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed 9.25 pounds per hour.
- B. The opacity from the cone crusher into the atmosphere will not exceed 15%. The opacity from the screen into the atmosphere will not exceed 10%.

8. Operating Parameters

- A. Maximum production will not exceed 225.00 tons per hour.
- B. HOURS
 - (1) The cone plant will not operate in excess of 8 hours per day.
 - (2) The cone plant will not operate more than 2,000 hours total per calendar year.
- C. The specified maximum throughput, emission limit, and pollution controls only apply when the cone plant is operating as a single unit. The maximum throughput, emission limit, and pollution controls may be modified when this source is operated in conjunction with other portable or stationary sources. Any restrictions specified on a Site Specific Permit Attachment supersede those contained in this permit if more stringent.
- D. Actual production and hours of operation must be submitted in writing to the Bureau of Air Quality within 30 days of completion of each job.

9. Testing and Sampling

The Department of Energy will perform such testing and sampling as required by NAC 445.682, to verify compliance with NAC 445.430 through NAC 445.846, and the restrictions contained in this Permit to Construct.

10. Noncompliance with any restrictions of the Permit to Construct (defined in Nevada Administrative Code 445.5635) will be deemed a violation of Nevada Administrative Code 445.430 through 445.846 and a Notice of Alleged Violation may be issued.
11. Fugitive dust from the handling, transporting or storing of any material will be controlled.
12. The Bureau of Air Quality will be notified in writing of commencement of construction, completion of construction, and commencement of operation in accordance with NAC 445.681.
13. This Permit to Construct does not preclude or substitute for local grading, building, health or any other required federal state or local permits, nor does it cover applicable requirements for water quality or hazardous waste permits required under Nevada statutes or regulations.
14. This Permit to Construct expires if construction of the source is not commenced and pursued diligently within one year from the date of issuance or construction of the source is delayed for one year after initiated.

Revised January 28, 1993

C7-2

Page 2 of 3

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3267

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. BOX 98608, LAS VEGAS, NEVADA 89193-8608

Location: PORTABLE

Restrictions Continued:

15. The act of any person who:

- A. makes any false material statement, representation, or certification in, or omits material information from, or alters, conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required by the permit or director;
- B. fails to notify or report as required by the permit or director;
- C. falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required by the permit or director;
- D. violates any of the applicable provisions of NAC 445.630 through 445.846;

will constitute a violation of this permit and may result in a revocation of this permit and/or enforcement action in accordance with NAC 445.696.

17. Any relaxation of any limits contained in this permit that increases the potential to emit above the applicable PSD/NSR threshold will require a full PSD/NSR review of the facility as though construction of the new or altered equipment had not yet commenced.
18. The proposed facility is subject to and must comply with the Clean Air Act, including the provisions of the 1990 amendments and any regulations adopted by the Federal Government and/or the State of Nevada pursuant thereto.
19. The blue copy of this permit will be signed and returned to the Bureau of Air Quality postmarked within ten days of receipt. Failure to do so will result in this permit being invalidated.
20. Requests for change of location must be submitted, on the form provided, to the Bureau of Air Quality at least five working days prior to operation of the source at the new location. The request must include a \$90.00 fee and the estimated production in tons at the new location. However, operation must not commence until the Bureau of Air Quality approves the change of location.

This permit:

1. Is non-transferable in accordance with NAC 445.704.
2. Is issued on condition that the holder allows inspection of the premises by authorized representatives of the department at any time during hours of construction or operation, without prior notice.
3. Is issued on condition of acceptance of all restrictions and conditions contained on this permit as evidenced by the signing hereof by an authorized representative.

Signature Lowell H. Shibley, Jr.
Issued by Lowell H. Shibley, Jr., P.E.
Chief, Bureau of Air Quality

Signature _____
Print Name _____
Authorized Representative of
U.S. Department of Energy

Phone 687-5065 Date October 28, 1992 Phone _____ Date _____

Initial location:
Section 7, T13S, R50E

Revised January 28, 1993

C7-3

Page 3 of 3

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STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3268

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. BOX 98608, LAS VEGAS, NEVADA 89193-8608

Location: PORTABLE

is granted a permit to construct, modify or establish the following source of air contaminant:

Kolberg Series 28 diesel-hydraulic screening plant, serial # unknown.

in accordance with Nevada Administrative Code (NAC) 445.430 through 445.846 and the plans, specifications or other materials submitted.

Restrictions:

1. Facilities Operation

All equipment, facilities, and systems installed or used to achieve compliance with the terms and conditions of the Permit to Construct will at all times be maintained in good working order and be operated as efficiently as practical so as to minimize air pollutant emissions.

The owner/operator subject to the restrictions of this Permit to Construct will cease operation when an upset or malfunction to the process or control equipment occurs that results in continued excess emissions, subject to the provisions of NAC 445.667 through NAC 445.668.

2. Excess Emissions

The Bureau of Air Quality will be notified by telephone within 24 hours following any failure of air pollution control equipment, process equipment, or of a process, to operate in a normal manner which results in an increase in emissions above any allowable emissions limit stated in the Permit to Construct restrictions. In addition, the Bureau of Air Quality will be notified in writing within fifteen (15) days of any such failure. This notification will include a description of the malfunctioning equipment or abnormal operation, the date of the initial failure, the period of time over which emissions were increased due to the failure, the cause of the failure, the estimated resultant emissions in excess of those allowed under the Permit to Construct, and the methods utilized to restore normal operations. Compliance with this malfunction notification provision will not excuse or otherwise constitute a defense to any violations of this permit or of any law or regulations which such malfunction may cause.

3. Right to Entry

The Bureau of Air Quality staff, upon the presentation of credentials, will be permitted at any time:

- A. to enter upon the premises where the source is located or in which any records are required to be kept under the terms and conditions of the Permit to Construct;
- B. to have access to and copy any records required to be kept under the terms and conditions of the Permit to Construct;
- C. to inspect any equipment, operation, or method required in the Permit to Construct;
- D. to sample emissions from the source or other process materials and conditions.

4. Severability

The provisions of the Permit to Construct are severable, and if any provision of the Permit to Construct is held invalid, the remainder of the Permit to Construct will not be affected thereby.

5. Other Applicable Regulations

The owner or operator of the facility will operate in compliance with all other applicable provisions of 40 CFR Parts 60 and 61 and Nevada Administrative Code 445.430 through 445.846.

Air Pollution Equipment

The Department of Energy will operate and maintain the following air pollution controls during all times the above referenced sources are operational, in accordance with NAC 445.664, to meet the emission limits as specified in Section 7 (Emission Limits) of this Permit to Construct.

Control system consisting of water sprays

C8-1

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3268

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. Box 98608, LAS VEGAS, NEVADA 89193-8608
Location: PORTABLE

Restrictions Continued:

7. Emission Limits

On and after the date of startup of the screening plant, the Department of Energy will not discharge or cause the discharge into the atmosphere from the screening plant the following pollutants in excess of the following specified limits:

- A. The discharge of PM_{10} (particulate matter less than 10 microns in diameter) to the atmosphere will not exceed 12.60 pounds per hour.
- B. The opacity from the screening plant into the atmosphere will not exceed 10%.

8. Operating Parameters

- A. Maximum production will not exceed 350.00 tons per hour.
- B. Hours
 - (1) The screening plant will not operate in excess of 8 hours per day.
 - (2) The screening plant will not operate more than 8,760 hours total per calendar year.
- C. The specified maximum throughput, emission limit, and pollution controls only apply when the screening plant is operating as a single unit. The maximum throughput, emission limit, and pollution controls may be modified when this source is operated in conjunction with other portable or stationary sources. Any restrictions specified on a Site Specific Permit Attachment supersede those contained in this permit if more stringent.
- D. Actual production and hours of operation must be submitted in writing to the Bureau of Air Quality within 30 days of completion of each job.

9. Testing and Sampling

The Department of Energy will perform such testing and sampling as required by MAC 445.682, to verify compliance with MA 445.430 through MAC 445.846, and the restrictions contained in this Permit to Construct.

10. Noncompliance with any restrictions of the Permit to Construct (defined in Nevada Administrative Code 445.5635) will be deemed a violation of Nevada Administrative Code 445.430 through 445.846 and a Notice of Alleged Violation may be issued.
11. Fugitive dust from the handling, transporting or storing of any material will be controlled.
12. The Bureau of Air Quality will be notified in writing of commencement of construction, completion of construction, and commencement of operation in accordance with MAC 445.681.
13. This Permit to Construct does not preclude or substitute for local grading, building, health or any other required federal state or local permits, nor does it cover applicable requirements for water quality or hazardous waste permits required under Nevada statutes or regulations.
14. This Permit to Construct expires if construction of the source is not commenced and pursued diligently within one year from the date of issuance or construction of the source is delayed for one year after initiated.
15. The act of any person who:
 - A. makes any false material statement, representation, or certification in, or omits material information from, or alters conceals, or fails to file or maintain any notice, application, record, report, plan, or other document required by the permit or director;
 - B. fails to notify or report as required by the permit or director;
 - C. falsifies, tampers with, renders inaccurate, or fails to install any monitoring device or method required by the permit or director;
 - D. violates any of the applicable provisions of MAC 445.430 through 445.846;will constitute a violation of this permit and may result in a revocation of this permit and/or enforcement action in accordance with MAC 445.696.

STATE OF NEVADA
DEPARTMENT OF CONSERVATION AND NATURAL RESOURCES
DIVISION OF ENVIRONMENTAL PROTECTION
BUREAU OF AIR QUALITY
333 WEST NYE LANE
CARSON CITY, NEVADA 89710

NO. 3268

AIR QUALITY PERMIT TO CONSTRUCT

Issued to: U.S. DEPARTMENT OF ENERGY, YUCCA MOUNTAIN SITE CHARACTERIZATION PROJECT
P.O. BOX 98608, LAS VEGAS, NEVADA 89193-8608

Location: PORTABLE

Restrictions Continued:

17. Any relaxation of any limits contained in this permit that increases the potential to emit above the applicable PSD/NSR threshold will require a full PSD/NSR review of the facility as though construction of the new or altered equipment had not yet commenced.
18. The proposed facility is subject to and must comply with the Clean Air Act, including the provisions of the 1990 amendments and any regulations adopted by the Federal Government and/or the State of Nevada pursuant thereto.
19. The blue copy of this permit will be signed and returned to the Bureau of Air Quality postmarked within ten days of receipt. Failure to do so will result in this permit being invalidated.
20. Requests for change of location must be submitted, on the form provided, to the Bureau of Air Quality at least five working days prior to operation of the source at the new location. The request must include a \$90.00 fee and the estimated production in tons at the new location. However, operation must not commence until the Bureau of Air Quality approves the change of location.

This permit:

1. Is non-transferable in accordance with NAC 445.704.
2. Is issued on condition that the holder allows inspection of the premises by authorized representatives of the department at any time during hours of construction or operation, without prior notice.
3. Is issued on condition of acceptance of all restrictions and conditions contained on this permit as evidenced by the signing hereof by an authorized representative.

Signature Lowell H. Shifley, Jr.
Issued by Lowell H. Shifley, Jr., P.E.
Chief, Bureau of Air Quality

Signature Wendy R. Dixon
Print Name Wendy R. Dixon

Authorized Representative of
U.S. Department of Energy

Phone 687-5065 Date October 28, 1992 Phone 794-7947 Date November 9, 1992

Initial location:
Section 7, T13S, R50E

C8-3

Page 3 of 3

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APPENDIX C9

PERMIT TO APPROPRIATE PUBLIC WATERS
OF THE STATE OF NEVADA
NO. 52338

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APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office: JUL 20 1988
Returned to applicant for correction: SEP 14 1988
Corrected application filed: OCT 19 1988
Map filed: OCT 19 1988

The applicant: U.S. Department of Energy
Post Office Box 98518 of Las Vegas Nevada 89193-3518
hereby make application for permission to appropriate the public waters of the State of Nevada, as hereinafter stated.

- 1 The source of the proposed appropriation is: Underground
2 The amount of water applied for is: 1.2 second-feet
3 The water to be used for: Other use (See No. 12) Industrial and Domestic
4 If use is for: (a) Irrigation, state number of acres to be irrigated. (b) Stockwater, state number and kinds of animals to be watered. (c) Other use (describe fully under No. 12. "Remarks" See No. 12. (d) Power: (1) Horsepower desired. (2) Point of return of water to stream.
5 The water is to be diverted from its source at the following point: NE1/4 of the SW1/4 SEC. 13, T.13S., R.50E. (MDSM) at a distance of 13,298 feet from the SW corner of SEC. 31. T.13S., R.50E., at bearing of S.08° 46' 06" W. (See attached map). Protracted.
6 Place of use: Sections 14-18, 19-23, 26-30, and 31-35, T.12S., R.50E.; Sections 13-36, T.12S., R.49E.; Sections 13, 25-29, and 32-36, T.12S., R.48E.; Sections 7-9, 16-21, and 28-33, T.13S., R.50E.; Sections 7-36, T.13S., R.49E.; Sections 10-15, 22-27, and 34-36, T.13S., R.48E.; Sections 4-9, T.14S., R.50E.; Section 1-12, 15-22, and 27-34, T.14S., R.49E.; Sections 1-3, 10-15, 22-27, and 36, T.14S., R.48E.; Sections 3-6, T.15S., R.49E.; Section 1, T.15S., R.48E.
7 Use will begin about 01/01 and end about 12/31 of each year.
8 Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) See attached sheet, No. B.

- 8 Estimated cost of works Existing = \$40,000. Planned = \$700,000
- 9 Estimated time required to construct works Five months. See No. 9 for details.
- 11 Estimated time required to complete the application of water to beneficial use 1 year.
- 12 Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use

This application is made in support of the site characterization program for Yucca Mountain, Nevada. See the attached sheet (No. 10) for water use estimates during the first 7 years of the site characterization program (No. 10). Included on this attachment (No. 10) is a breakdown of the various uses to which the water will be applied.

By: s/ Frank E. Bindham
 P.O. Box 98318
 Las Vegas, Nevada 89193-8518

Compared 12/7 12/80

Processed 12/99 by U.S.A. NATIONAL PARK SERVICE
 Pro. Overruled.
 Ruling No. 1370

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of water herein granted is only a temporary allowance issued under the provisions of NRS 533.371 for a finite period of time. This permit will expire on April 9, 2002 and all rights herein will revert back to the source but subject to reinstatement and extension of the permit for good cause shown. It is also understood that this right must allow for a reasonable lowering of the static water level. This well shall be equipped with a two (2) inch opening for measuring depth to water. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of water begins, or before the Proof of Completion of Work is filed. The State retains the right to regulate the use of the water herein granted at any and all times.

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies.

(CONTINUED ON PAGE 2)
 The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to

exceed 2.2 cubic feet per second, BUT NOT TO EXCEED 34.81 acre-feet annually.

Work must be prosecuted with reasonable diligence and be completed on or before April 9, 1993

Proof of completion of work shall be filed before May 9, 1993

Application of water to beneficial use shall be filed on or before April 9, 2002
 Permit Expires

Proof of the application of water to beneficial use shall be filed on or before N/A - April 9, 2002

Map in support of proof of beneficial use shall be filed on or before N.A.

Completion of work filed _____
 Proof of beneficial use filed _____
 Cultural map filed _____
 Certificate No. _____

IN TESTIMONY WHEREOF, I, R. MICHAEL TURNER, P.E.
 State Engineer of Nevada, have hereunto set my hand and the seal of my office, this 9th day of April
 A.D. 1993
 [Signature]

REQUIREMENTS TO FULFILL THE TERMS OF YOUR PERMIT

The State of Nevada has, by issuing this permit, granted your request to appropriate the public waters, subject to certain terms and conditions. It is strongly suggested that you carefully review the permit so that you will be aware of all terms, conditions, deadlines and limitations contained within the State Engineer's approval. If you fail to comply with those terms and conditions, your permit will be subject to cancellation as required under existing statutes. If you have any questions or require assistance, please do not hesitate to contact this office (702) 687-4380 or either of our branch offices located in Elko (702) 738-7211 and Las Vegas (702) 798-4505.

PROOF OF COMPLETION OF WORK

You have been given a deadline within which to complete your works of diversion and file the required Proof of Completion of Work. Please note this deadline under your permit. Proof must be made by submitting to the office of the State Engineer a completed and notarized form, which will be provided by this office at no cost. The proof must also be accompanied by a filing fee of \$10.00. Forms will be provided upon request, or will be enclosed with a certified notice from this office which will be mailed to you upon expiration of the deadline. Proof may be submitted at any time prior to the deadline, upon completion of your works of diversion.

In the case of a well, the well must be completely drilled and cased, with a pump and motor installed. The well driller's log must also be filed in the office of the State Engineer.

In the case of other sources, such as surface water, the diversion structure and conduits must be completed.

PROOF OF BENEFICIAL USE

You have also been given a deadline for placing the water to beneficial use. Please note this deadline under your permit.

Proof of beneficial use must be made by submitting a completed proof form, provided at no cost by this office, along with \$50.00 filing fee. Proof may be submitted at any time that you have made beneficial use to the full amount allowed by the permit, or to a lesser amount if the full amount is not required.

The State Engineer's approval establishes a specific limitation on the amount of water which may be used. The amount actually beneficially used within the time limitations of your permit will establish the final limit and extent of your water right.

The terms of your permit may also require the filing of a map in support of the Proof of Beneficial Use. If so, please note that this deadline corresponds with the date for filing of your proof.

Rev. 3-14-90

100 ESTIMATED WATER REQUIREMENTS FOR SITE CHARACTERIZATION
OF PUCCA MOUNTAIN

Activity	Millions	Acres-feet
EXPLORATORY SHAFT FACILITY		
Site Preparation	5,700,000	20.5
ESF Surface Construction	2,100,000	5.4
ES-1 Collar	1,300,000	1
Drilling of ES-1	5,400,000	19.6
ES-2 Construction	2,500,000	3
Underground Construction	2,500,000	7.7
Testing/Construction	2,100,000	5.4
Just Control	43,000,000	131.9
Contingency (10%)	6,840,000	20.4
2. SURFACE BASED TESTING		
Drilling (includes holes in unsaturated zone, water table, USW H-7, as well as geologic, volcanic, and calcite/silica holes, surface-facility holes, holes for Phase I and II of performance assessment, in situ stress holes, and holes for the southern tracer complex)	11,122,000	34
Testing (includes large- and small-plot rainfall simulation, ponding studies, and studies of in situ stress)	1,302,000	4
Just Control	45,600,000	140
<hr/>		
1. Total for ESF	73,040,000	224
2. Total for Surface Based	58,024,000	178
GRAND TOTAL	131,064,000	402

APPENDIX C10

PERMIT TO APPROPRIATE PUBLIC WATERS
OF THE STATE OF NEVADA
NO. 57373

No. 5737:

APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office APP 02 1992

Returned to applicant for correction

Corrected application filed

Map filed MAY 13 1992

The applicant U. S. Department of Energy, Nevada Operations Office

2753 South Highland of Las Vegas

Survey map No. or P.O. Box No.

City or Town

Nevada 89109

State and Zip Code No.

hereby make application for permission to appropriate the public waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a copartnership or association, give names of members.)

1. The source of the proposed appropriation is Underground

Name of stream, lake, spring, underground or other source

2. The amount of water applied for is 1.0 second-foot

One second-foot equals 448.83 gal. per min.

(a) If stored in reservoir give number of acn. feet

3. The water to be used for Industrial

Irrigation, power, mining, manufacturing, domestic, or other use. Please limit to one use.

4. If use is for:

(a) Irrigation, state number of acres to be irrigated

(b) Stockwater, state number and kinds of animals to be watered

(c) Other use (describe fully under No. 12. "Remarks")

(d) Power:

(1) Horsepower developed

(2) Point of return of water to stream

5. The water is to be diverted from its source at the following point SW 1/4 NE 1/4, Section 6, T.14S., R.50E.

Describe as being within a 40-acre subdivision of public

M.D.B.&M. at a point from which the SW corner of Section 6, said township and range, bears S. 51° 08' 04" W., a distance of 4332.31 feet.

6. Place of use... C10-1



7 Use will begin about January 1st and end about December 31st of each year.
Month and Day Month and Day

8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) drilled well, pump and motor, water tank and distribution system.
State manner in which water is to be diverted, i.e. diversion structure, gates and flumes, drilled well with pump and motor, etc.



9. Estimated cost of works \$1,330,000.00

10. Estimated time required to construct works completed
If well completed, describe works.

11. Estimated time required to complete the application of water to beneficial use 10 years

12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use:

This application 57374 and applications 57375 and 57376 shall not exceed 430.19
acre feet per annum from any and/or all sources. For the proposed use please
refer to Exhibit "B". Well designation J-12.

U.S. D.O.E., Nevada Operations Office
By s/Wendy Dixon WENDY DIXON
2753 South Highland
Las Vegas, Nevada 89109

Compared bc/bc ad/se

Processed 7-23-92 by US Fish & Wildlife Service, 7-27-92 US Dept. of Interic
National Park Se

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of water herein granted is only a temporary allowance issued under the provisions of NRS 533.371 for a finite period of time. This permit will expire on April 9, 2002 and all rights herein will revert back to the source but subject to reinstatement and extension of the permit for good cause shown. It is also understood that this right must allow for a reasonable lowering of the static water level. This well shall be equipped with a two (2) inch opening for measuring depth to water. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of water begins, or before the Proof of Completion of Work is filed. The State retains the right to regulate the use of the water herein granted at any and all times.

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies.

(CONTINUED ON PAGE 2)

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to

exceed 1.0 cubic feet per second, but not to exceed 430.19
acre-feet annually.

Work must be prosecuted with reasonable diligence and be completed on or before March 9, 1993

Proof of completion of work shall be filed before April 9, 1993

Application of water to beneficial use shall be filed on or before March 9, 2002



Prove on the application of water to beneficial use shall be filed on or before April 9, 2002

Map in support of proof of beneficial use shall be filed on or before 7/1

Completion of work filed _____

Proof of beneficial use filed _____

Cultural map filed _____

Certificate No. Issues

IN TESTIMONY WHEREOF, I, R. MICHAEL THOMPSON, P. E.

State Engineer of Nevada, have hereunto set my hand and the seal of my

office, this 9th day of August

A.D. 1992


State Engineer

10-1101-1000 0-000

Page 2

57373

(PERMIT TERMS CONTINUED)

This permit is issued subject to: 1) Compliance with the monitoring program titled "Monitoring Program for the Groundwater Levels and Spring Flows in the Yucca Mountain Region of Southern Nevada and California, February 1991, United States Department of Energy, Yucca Mountain Project Office." 2) Data collected from said monitoring program shall be submitted to the State Engineer's office on a quarterly basis, within 30 days after the end of each calendar quarter. 3) The terms and conditions set forth in State Engineer's Ruling No. 3870, dated March 2, 1992.

Monthly records shall be kept of the amount of water pumped from this well and the records submitted to the State Engineer on a quarterly basis within 15 days after the end of each calendar quarter.

The total combined duty of water under Permits 57373, 57374 and 57376 shall not exceed 430.19 acre-feet annually.

C10-5

APPENDIX C11

PERMIT TO APPROPRIATE PUBLIC WATERS
OF THE STATE OF NEVADA
NO. 57374

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APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office APR 2 - 1992

Returned to applicant for correction

Corrected application filed

Map filed MAY 13 1992 UNDER 57373

The applicant U.S. Department of Energy, Nevada Operations Office

2753 South Highland

Las Vegas

Nevada 89109

hereby make application for permission to appropriate the public waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if copartnership or association, give names of members.)

1. The source of the proposed appropriation is Underground

2. The amount of water applied for is 0.8 second-feet

3. The water to be used for Industrial

4. If use is for:

(a) Irrigation, state number of acres to be irrigated

(b) Stockwater, state number and kinds of animals to be watered

(c) Other use (describe fully under No. 12, "Remarks")

(d) Power:

(1) Horsepower developed

(2) Point of return of water to stream

5. The water is to be diverted from its source at the following point NE 1/4 SW 1/4, Section 19, T. 13S.,

R. 50E., N.D.R. 6M., at a point from which the SW corner of Section 11, T. 13S.,

R. 50E., N.D.R. 6M., bears S. 08° 46' 06" W., a distance of 11,298 feet.

6. Place of use SEE ATTACHED EXHIBIT "A"

7. Use will begin about January 1st and end about December 31st of each year.

8. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) drilled well with pump and motor, line

CORRECTED PERMIT

- 9. Estimated cost of works 21,330,000.00
- 10. Estimated time required to construct works Completed under #52338
- 11. Estimated time required to complete the application of water to beneficial use 10 years
- 12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use:
This application 57373 and applications 57375 and 57376 shall not exceed 430.19
acre feet per annum from any and/or all sources. For the proposed use please
refer to Exhibit "B". Well designation J-13.

U.S. D.O.E., Nevada Operations Office
 s/ Wendy Dixon WENDY DIXON
 By: 7733 South Highland
Las Vegas, Nevada 89109

Compared sp/ ee sp/ ee

Permitted 7-23-92 By US Fish & Wildlife Service, 7-27-92 by US Dept. of Interior National Park Service
 Protest upheld, see _____
 permit terms.

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of water herein granted is only a temporary allowance issued under the provisions of NRS 533.371 for a finite period of time. This permit will expire on April 9, 2002 and all rights herein will revert back to the source but subject to reinstatement and extension of the permit for good cause shown. It is also understood that this right must allow for a reasonable lowering of the static water level. This well shall be equipped with a 12 (12) inch opening for measuring depth to water. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of water begins, or before the Proof of Completion of Work is filed. The State retains the right to regulate the use of the water herein granted at any and all times.

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies.

(CONTINUED ON PAGE 2)

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to exceed 0.8 cubic feet per second, but not to exceed 430.19 acre-feet annually.

Work must be prosecuted with reasonable diligence and be completed on or before March 9, 1993
 Proof of completion of work shall be filed before April 9, 1993
 Application of water to beneficial use shall be filed on or before March 9, 2002
Permit Expires
 Proof of the application of water to beneficial use shall be filed on or before April 9, 2002
 Map in support of proof of beneficial use shall be filed on or before N/A

Completion of work filed _____
 Proof of beneficial use filed _____
 Current map filed _____
 Certificate No. _____

IN TESTIMONY WHEREOF, I, R. MICHAEL TURNIPSEED, P. E.,
 State Engineer of Nevada, have hereunto set my hand and the seal of my
 office, this 2nd day of October
 A.D. 1992

[Signature]
 State Engineer

REQUIREMENTS TO FULFILL THE TERMS OF YOUR PERMIT

The State of Nevada has, by issuing this permit, granted your request to appropriate the public waters, subject to certain terms and conditions. It is strongly suggested that you carefully review the permit so that you will be aware of all terms, conditions, deadlines and limitations contained within the State Engineer's approval. If you fail to comply with those terms and conditions, your permit will be subject to cancellation as required under existing statutes. If you have any questions or require assistance, please do not hesitate to contact this office (702) 687-4380 or either of our branch offices located in Elko (702) 738-7211 and Las Vegas (702) 798-4505.

PROOF OF COMPLETION OF WORK

You have been given a deadline within which to complete your works of diversion and file the required Proof of Completion of Work. Please note this deadline under your permit. Proof must be made by submitting to the office of the State Engineer a completed and notarized form, which will be provided by this office at no cost. The proof must also be accompanied by a filing fee of \$10.00. Forms will be provided upon request, or will be enclosed with a certified notice from this office which will be mailed to you upon expiration of the deadline. Proof may be submitted at any time prior to the deadline, upon completion of your works of diversion.

In the case of a well, the well must be completely drilled and cased, with a pump and motor installed. The well driller's log must also be filed in the office of the State Engineer.

In the case of other sources, such as surface water, the diversion structure and conduits must be completed.

PROOF OF BENEFICIAL USE

You have also been given a deadline for placing the water to beneficial use. Please note this deadline under your permit.

Proof of beneficial use must be made by submitting a completed proof form, provided at no cost by this office, along with \$50.00 filing fee. Proof may be submitted at any time that you have made beneficial use to the full amount allowed by the permit, or to a lesser amount if the full amount is not required.

The State Engineer's approval establishes a specific limitation on the amount of water which may be used. The amount actually beneficially used within the time limitations of your permit will establish the final limit and extent of your water right.

The terms of your permit may also require the filing of a map in support of the Proof of Beneficial Use. If so, please note that this deadline corresponds with the date for filing of your proof.

Rev. 3-14-90

PERMIT TERMS CONTINUED:

This permit is issued subject to: 1) Compliance with the monitoring program titled "Monitoring Program for the Groundwater Levels and Spring Flows in the Juc Mountain Region of Southern Nevada and California, February 1991, United States Department of Energy, Jucca Mountain Project Office." 2) Data collected from the monitoring program shall be submitted to the State Engineer's office on a quarterly basis, within 30 days after the end of each calendar quarter. 3) The terms and conditions set forth in State Engineer's Ruling No. 1870, dated March 2, 1992.

Monthly records shall be kept of the amount of water pumped from this well and the records submitted to the State Engineer on a quarterly basis within 15 days after the end of each calendar quarter.

The total combined duty of water under Permits 57373, 57374 and 57376 shall not exceed 430.19 acre-feet annually.

EXHIBIT "A"

All T. 12 S., R. 48 E.; All T. 12 S., R. 49 E.; Sections 14 through 23 and 26 through 35, T. 12 S., R. 50 E.; All T. 13 S., R. 48 E.; All T. 13 S., R. 49 E.; Sections 7 through 9, 16 through 21 and 28 through 33, T. 13 S., R. 50 E.; Sections 1 through 3, 10 through 15, 22 through 27 and Section 36, T. 14 S., R. 48 E.; Sections 1 through 12, 15 through 22 and 27 through 34, T. 14 S., R. 49 E.; Sections 4 through 9, T. 14 S., R. 50 E.; Section 1, T. 15 S., R. 48 E.; Sections 3 through 6, T. 15 S., R. 49 E., all within M.D.B. & M. (unsurveyed)

EXHIBIT "B"

The Proposed Use is for road construction, dust suppression, tunneling, pad construction, scientific tests, culinary and other related site uses.

No. 57374

APPLICATION FOR PERMIT TO APPROPRIATE THE PUBLIC WATERS OF THE STATE OF NEVADA

Date of filing in State Engineer's Office APR 02 1992

Returned to applicant for correction

Corrected application filed

Map filed MAY 13 1992 under 57373

The applicant U.S. Department of Energy, Nevada Operations Office

2755 South Highland of Las Vegas

Nevada 89109 hereby make application for permission to appropriate the public

waters of the State of Nevada, as hereinafter stated. (If applicant is a corporation, give date and place of incorporation; if a copartnership or association, give names of members.)

1. The source of the proposed appropriation is Underground

2. The amount of water applied for is 0.8 second-feet

(a) If stored in reservoir give number of acre-feet

3. The water to be used for Industrial

4. If use is for:

(a) Irrigation, state number of acres to be irrigated

(b) Stockwater, state number and kinds of animals to be watered

(c) Other use (describe fully under No. 12. "Remarks")

(d) Power:

(1) Horsepower developed

(2) Point of return of water to stream

5. The water is to be diverted from its source at the following point NE 1/4 SW 1/4, Section 19, T.13S., R.50E

M.D.B.&M. at a point from which the SW corner of Section 31, T.13S., R.50E.,

M.D.B.&M., bears S. 08° 46' 06" W., a distance of 13,298 feet.

6. Place of use SEE ATTACHED EXHIBIT "A" C11-5

9. Estimated cost of works \$1,330,000.00

10. Estimated time required to construct works completed under #52338
If well completed, describe works.

11. Estimated time required to complete the application of water to beneficial use 10 years

12. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use:

This application 57373 and applications 57375 and 57376 shall not exceed 430.19
acre feet per annum from any and/or all sources. For the proposed use please
refer to Exhibit "B". Well designation J-13.

U.S. D.O.E., Nevada Operations Office
By s/Wendy Dixon WENDY DIXON
2753 South Highland
Las Vegas, Nevada 89109

Compared bc/bc ap/se

Processed 7-23-92 by US Fish & Wildlife Service, 7-27-92 US Dept. of Interior
National Park Service

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit is issued subject to existing rights. It is understood that the amount of water herein granted is only a temporary allowance issued under the provisions of NRS 533.371 for a finite period of time. This permit will expire on April 9, 2002 and all rights herein will revert back to the source but subject to reinstatement and extension of the permit for good cause shown. It is also understood that this right must allow for a reasonable lowering of the static water level. This well shall be equipped with a two (2) inch opening for measuring depth to water. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of water begins, or before the Proof of Completion of Work is filed. The State retains the right to regulate the use of the water herein granted at any and all times.

This permit does not extend the permittee the right of ingress and egress on public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permit holder obtain other permits from State, Federal and local agencies.

(CONTINUED ON PAGE 2)

The amount of water to be appropriated shall be limited to the amount which can be applied to beneficial use, and not to

exceed 1.0 cubic feet per second, but not to exceed 430.19
acre-feet annually.

Work must be prosecuted with reasonable diligence and be completed on or before MARCH 9, 1993

Proof of completion of work shall be filed before C11-7 April 9, 1993

57374

Proof of the application of water to beneficial use shall be filed on or before _____ Permit Expires
April 9, 2002

Map in support of proof of beneficial use shall be filed on or before _____ N/A

Completion of work filed _____
Proof of beneficial use filed _____
Cultural map filed _____
Certificate No. _____ (issued _____)

IN TESTIMONY WHEREOF, I, R. MICHAEL TURNIPSEED, P.E.
State Engineer of Nevada, have hereunto set my hand and the seal of my
office, this 19th day of August
A.D. 1992

State Engineer

(PERMIT TERMS CONTINUED)

This permit is issued subject to: 1) Compliance with the monitoring program titled "Monitoring Program for the Groundwater Levels and Spring Flows in the Yucca Mountain Region of Southern Nevada and California, February 1991, United States Department of Energy, Yucca Mountain Project Office." 2) Data collected from said monitoring program shall be submitted to the State Engineer's office on a quarterly basis, within 30 days after the end of each calendar quarter. 3) The terms and conditions set forth in State Engineer's Ruling No. 3870, dated March 2, 1992.

Monthly records shall be kept of the amount of water pumped from this well and the records submitted to the State Engineer on a quarterly basis within 15 days after the end of each calendar quarter.

The total combined duty of water under Permits 57373, 57374 and 57376 shall not exceed 430.19 acre-feet annually.

EXHIBIT "A"

All T. 12 S., R. 48 E.; All T. 12 S., R. 49 E.; Sections 14 through 23 and 26 through 35, T. 12 S., R. 50 E.; All T. 13 S., R. 48 E.; All T. 13 S., R. 49 E.; Sections 7 through 9, 16 through 21 and 28 through 33, T. 13 S., R. 50 E.; Sections 1 through 3, 10 through 15, 22 through 27 and Section 36, T. 14 S., R. 48 E.; Sections 1 through 12, 15 through 22 and 27 through 34, T. 14 S., R. 49 E.; Sections 4 through 9, T. 14 S., R. 50 E.; Section 1, T. 15 S., R. 48 E.; Sections 3 through 6, T. 15 S., R. 49 E., all within M.D.B. & M. (unsurveyed)

EXHIBIT "B"

The Proposed Use is for road construction, dust suppression, tunneling, pad construction, scientific tests, culinary and other related site uses.



APPENDIX C12

PERMIT TO CHANGE POINT OF DIVERSION, MANNER
OF USE AND PLACE OF USE OF THE PUBLIC
WATERS OF THE STATE OF NEVADA
NO. 57326T

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PERMITS

Serial No 573287

APPLICATION FOR PERMISSION TO CHANGE POINT OF DIVERSION, MANNER OF USE AND PLACE OF USE OF THE PUBLIC WATERS OF THE STATE OF NEVADA HERETOFORE APPROPRIATED

Date of filing in State Engineer's Office 11/20/02

Returned to applicant for correction

Corrected application filed May 11/02

The applicant S. Department of Energy, Nevada Operations Office

2753 South Highland Las Vegas

Nevada 89129

Place of use

If water heretofore appropriated under Permit #45984

The source of water is underground

The amount of water to be changed 1.0 c.f.s. 20.0 M.G.A.

The water to be used for Same as heretofore

The water heretofore permitted for Construction

The water is to be diverted at the following point NE 1/4 SW 1/4 Section 27, T. 13 S., R. 48 E., M.D.B.S.M., or at a point from which the SE corner of Section 36, T. 13 S., R. 48 E., M.D.B.S.M. bears S. 81° 14' 56" E., a distance of 15,160.21 feet.

The existing permitted point of diversion is located within unchanged

Proposed place of use Please refer to exhibit 15

Existing place of use T. 12S., R. 48E.; T. 13S., R. 48E.; T. 13S., R. 49E.; T. 12S., R. 49E. all within M.D.B.S.M. (unsurveyed)

Use will be from January 1st to December 31st of each

Use was permitted from January 1st to December 31st of each

Description of proposed works: Under the provisions of NRS 535.010 you may be required to submit plan specifications of your diversion or storage works: drilled well, pump, motor, line reserve WATER MAY BE DIVED OR TRUCKED WITHIN PLACE OF USE.

Estimated cost of works \$30,000.00

Estimated time required to construct works completed under #45984

TEMPORARY

Serial No. 56723

APPLICATION FOR PERMISSION TO CHANGE POINT OF DIVERSION, MANN
USE OF THE PUBLIC WATERS OF THE
JA HERETOFORE APPROPRIATED

*Jack
Harris*

SEP 3 1991

H-

Map filed OCT 18 1988 under 5

ENERGY, NEVADA OPERATIONS OFFICE

2753 South Highland

Las Vegas

Nevada 89109

City or State

Place of Use

hereby make application for permission to change

Point of diversion, distance to new, former point or use
of water heretofore appropriated under Permit 45984
Locality existing upon the Permit, Condition, Point or Claim filed, if known, give name or
county upon in Nevada.

1. The source of water is Underground

2. The amount of water to be changed 1.0 c.f.s. (20.0 M.G.A.)

3. The water to be used for Same as heretofore

4. The water increases permitted for Construction



5. The water is to be diverted at the following point NM SW8 Section 27, T.13 S., R.48 E.,
N.D.B.M., or at a point from which the SE corner of Section 36 T.13 S., R
N.D.B.M., bears S. 61° 14' 56" E., a distance of 15,360.21 feet

6. The existing permitted point of diversion is located within unchanged

7. Proposed place of use Please refer to Exhibit "A".

8. Routing plans of use T.13 S., R.48 E.; T.13 S., R.48E.; T.13 S., R.49 E.; and
R.49 E. all within N.D.B.M. (Unsurveyed)

9. Use will be from January 1 to December 31

10. Use was permitted from January 1 to December 31

11. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit
specifications of your diversion or storage works.) Drilled well, pump, motor, line rock
water may be piped or trucked within Place of Use.

12. Estimated cost of works \$30,000.00

13. Estimated time required to construct works Completed under 45984

4. Estimated costs required to complete the application of water to beneficial use Temporary

5. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use:

Water will be used for activities which include road construction, trenching and construction, boreholes or M.T.S., and for proposed Point of Diversion refer to map filed in support of 45984, for proposed place of use refer to map filed in support of 45984 and 52338. For existing point of diversion and place of use refer to map filed in support of 45984.

By s/Jack O. Ferris
TRIEL WINCHELL & ASSOCIATES, INC.
34 Lakes Blvd., Suite 101
Dayton, NV 89403

Compare 2/3/88 2/3/88

Processed _____

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following conditions and covenants:

This permit to change the place of use of the waters of an underground source heretofore granted under Permit 45984 is issued subject to the terms and conditions imposed in said Permit 45984 and with the understanding that no other rights on a source will be affected by the change proposed herein. The well shall be equipped with a 2-inch opening and a totalizing meter must be installed and maintained in a discharge pipeline near the point of diversion and accurate measurements must be of water placed to beneficial use. The totalizing meter must be installed before use of the water begins or before the Proof of Completion of Work is filed. If well is flowing, a valve must be installed and maintained to prevent waste. State retains the right to regulate the use of the water herein granted at any all times.

This permit does not extend the permittee the right of ingress and egress public, private or corporate lands.

The issuance of this permit does not waive the requirements that the permittee obtain other permits from State, Federal and local agencies.

A monthly report shall be submitted to the State Engineer within 10 days of the end of each month which shall include the amount of water pumped from each well and the amount of water used.

This Temporary Permit is issued pursuant to the provisions of NRS 333 Section 2 and will expire on September 13, 1992, or when action has been taken Application 52338, whichever comes first, at which time all rights herein granted shall revert to the right being changed by this Temporary Permit. The amount of water to be changed shall be limited to the amount which can be applied to beneficial use, and a

cannot 1.0 cubic feet per second, BUT NOT to exceed 20.00 million gallons annually.

Work must be prosecuted with reasonable diligence and be completed on or before _____

Proof of completion of work shall be filed before _____

Application of water to beneficial use shall be made on or before _____

Proof of the application of water to beneficial use shall be filed on or before _____

Map in support of proof of beneficial use shall be filed on or before _____

Completion of work filed _____
Proof of beneficial use filed _____
Current map filed _____
Certification No. _____

IN TESTIMONY WHEREOF, I, NICHOL TUNNICLIFFE
State Engineer of Nevada, have hereunto set my hand and the seal of the State of Nevada, this 11th day of February
A.D. 19 88
[Signature]

TEMPORARY

TEMPORARY

TEMPORARY

Serial No. 56723-T

APPLICATION FOR PERMISSION TO CHANGE POINT OF DIVERSION, MANNER OF USE AND PLACE OF USE OF THE PUBLIC WATERS OF THE STATE OF NEVADA HERETOFORE APPROPRIATED

Date of filing in State Engineer's Office SEP 3 1991

Returned to applicant for correction

Corrected application filed Map filed OCT 18 1988 under 523

The applicant U.S. DEPARTMENT OF ENERGY, NEVADA OPERATIONS OFFICE

2753 South Highland of Las Vegas

City and Co. or P.O. Box No. City or Town

Nevada 89109 hereby make application for permission to change

Place of Use

Point of diversion, manner of use, manner of use of water heretofore appropriated under PERMIT 45984

State Engineer's Office by Permit, Certificate, Permit or Claim from, if District, give name of the

1. The source of water is Underground

2. The amount of water to be changed 1.0 c.f.s. (20.0 M.G.A.)

3. The water to be used for Same as heretofore

4. The water heretofore permitted for Construction

5. The water is to be diverted at the following point NE 1/4 Section 27, T.13 S., R.48 E., N.D.B.M., or at a point from which the SE corner of Section 36 T.13 S., R.48 E., N.D.B.M., bears S. 61° 14' 56" E., a distance of 15,360.21 feet

6. The existing permitted point of diversion is located within unchanged

7. Proposed place of use Please refer to Exhibit "A"

8. Existing place of use T.13 S., R.48 E., T.13 S., R.48 E., T.13 S., R.49 E., and R.49 E. all within N.D.B.M. (Unsurveyed)

9. Use will be from January 1 to December 31 of

10. Use was permitted from January 1 to December 31 of

11. Description of proposed works. (Under the provisions of NRS 335.010 you may be required to submit specifications of your diversion or storage works.) Drilled well, pump, motor, line raise; water may be piped or trucked within Place of Use.

12. Estimated cost of works \$30,000.00

13. Estimated time required to construct works Completed under 45984

EXHIBIT "A"

All T.12 S., R.48 E.; All T.12 S., R.49 E.; Sections 14 through 23 and 26 through 35, T. 12 S., R.50 E.; All T.13 S., R.48 E.; All T.13 S., R.49 E., Sections 7 through 9, 16 through 18, 19 through 21, 28 through 30, 31 through 33, T.13 S., R.50 E.; Sections 1 through 3, 10 through 15, 22 through 27, and Section 36, T.14 S., R.48 E.; Sections 1 through 12, 15 through 22, 27 through 34, T.14 S., R.49 E.; Section 1, T.15 S., R.48 E.; Sections 3 through 6 T.15 S., R.49 E., all within M.D.B.&M. (Unsurveyed)

APPENDIX C13

PERMIT TO CHANGE POINT OF DIVERSION, MANNER
OF USE AND PLACE OF USE OF THE PUBLIC
WATERS OF THE STATE OF NEVADA
NO. 57375

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Serial No. 57175

APPLICATION FOR PERMISSION TO CHANGE POINT OF DIVERSION, MANNER OF USE AND PLACE OF USE OF THE PUBLIC WATERS OF THE STATE OF NEVADA HERETOFORE APPROPRIATED

Date of filing in State Engineer's Office APR 02 1997

Returned to applicant for correction

Corrected application filed MAY 10 1997

The applicant U. S. Department of Energy, Nevada Operations Office

2753 South Highland Las Vegas Nevada 89109

Place of Use and Manner of Use

of water heretofore appropriated under Permit #45984

1. The source of water is Underground

2. The amount of water to be changed 1.0 c.f.s.

3. The water to be used for Industrial

4. The water heretofore permitted for Construction of roads

5. The water is to be diverted at the following point NE 1/4 SW 1/4 Section 27, T.13S., R.48E., M.C. at a point from which the SE corner of Section 36, T.35., R.48E., M.D.B. bears S. 61° 14' 56" E., a distance of 15,360.21 feet. (Unsurveyed)

6. The existing permitted point of diversion is located within unchanged

7. Proposed place of use SEE ATTACHED EXHIBIT "1"

8. Existing place of use T.12S., R.48E.; T.12S., R.49E.; T.13S., R.48E.; and T.13S., R.49E., all within M.D.B.M.

9. Use will be from January 1st to December 31st

10. Use was permitted from January 1st to December 31st

11. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit specifications of your diversion or storage works.) drilled well with pump and motor, water be piped or trucked within Place of Use.

12. Estimated cost of works \$30,000.00

13. Estimated time required to construct works completed under #45984

4. Estimated time required to complete the application of water to beneficial use _____ years

5. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use:

Permit #45984 is limited to 20 mca. This application and applications 57373
57374 and 57376 shall not exceed 430.19 acre feet per annum from any and/or all
sources. For the proposed use please refer to Exhibit "B". Well designation
7H-1.

U.S. G.E.C. - NEVADA OPERATIONS OFFICE
By S/Mendy Dixon MENDY DIXON
2753 South Highland
Las Vegas, Nevada 89109

Compared 02/02 12/89

Processed 7-23-92 by US Fish & Wildlife Service, 7-27-92 US Dept. of Interior
Protest upheld. National Park Service
see permit terms

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit to change the place of use and manner of use of the waters of an underground source as heretofore granted under Permit 45984 is issued subject to the terms and conditions imposed in said Permit 45984 and with the understanding that to other rights on the source will be affected by the change proposed herein.

It is also understood that this right must allow for a reasonable lowering of the static water level. This well shall be equipped with a two (2) inch opening for measuring depth to water. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of water begins, or before the Proof of Completion of Work is filed. The State retains the right to regulate the use of the water herein granted at any and all times.

This permit is issued subject to: 1) Compliance with the monitoring program titled "Monitoring Program for the Groundwater Levels and Spring Flow in the Yucca Mountain Region of Southern Nevada and California, February 1991, United States Department of Energy, Yucca Mountain Project Office." 2) Data collected from said (CONTINUED ON PAGE 2)

The amount of water to be changed shall be limited to the amount which can be applied to beneficial use, and not to exceed _____ 1.0 _____ cubic feet per second, BUT NOT TO EXCEED 61.38
ACRE-FEET ANNUALLY.

Work must be prosecuted with reasonable diligence and be completed on or before _____ March 9, 1993
Proof of completion of work shall be filed before _____ April 9, 1993
Application of water to beneficial use shall be made on or before _____ March 9, 1994
Proof of the application of water to beneficial use shall be filed on or before _____ April 9, 1994
Map in support of proof of beneficial use shall be filed on or before _____ N/A

Completion of work filed _____
Proof of beneficial use filed _____
Cultured map filed _____
Conditions file _____

IN TESTIMONY WHEREOF, I, R. MICHAEL TURNIPSEED, P.E.
State Engineer of Nevada, have hereunto set my hand and the seal of my
office, this 22nd day of OCTOBER
A.D. 19 92
[Signature]
State Engineer

REQUIREMENTS TO FULFILL THE TERMS OF YOUR PERMIT

The State of Nevada has, by issuing this permit, granted your request to appropriate the public waters, subject to certain terms and conditions. It is strongly suggested that you carefully review the permit so that you will be aware of all terms, conditions, deadlines and limitations contained within the State Engineer's approval. If you fail to comply with those terms and conditions, your permit will be subject to cancellation as required under existing statutes. If you have any questions or require assistance, please do not hesitate to contact this office (702) 687-4380 or either of our branch offices located in Elko (702) 738-7211 and Las Vegas (702) 798-4505.

PROOF OF COMPLETION OF WORK

You have been given a deadline within which to complete your works of diversion and file the required Proof of Completion of Work. Please note this deadline under your permit. Proof must be made by submitting to the office of the State Engineer a completed and notarized form, which will be provided by this office at no cost. The proof must also be accompanied by a filing fee of \$10.00. Forms will be provided upon request, or will be enclosed with a certified notice from this office which will be mailed to you upon expiration of the deadline. Proof may be submitted at any time prior to the deadline, upon completion of your works of diversion.

In the case of a well, the well must be completely drilled and cased, with a pump and motor installed. The well driller's log must also be filed in the office of the State Engineer.

In the case of other sources, such as surface water, the diversion structure and conduits must be completed.

PROOF OF BENEFICIAL USE

You have also been given a deadline for placing the water to beneficial use. Please note this deadline under your permit.

Proof of beneficial use must be made by submitting a completed proof form, provided at no cost by this office, along with \$50.00 filing fee. Proof may be submitted at any time that you have made beneficial use to the full amount allowed by the permit, or to a lesser amount if the full amount is not required.

The State Engineer's approval establishes a specific limitation on the amount of water which may be used. The amount actually beneficially used within the time limitations of your permit will establish the final limit and extent of your water right.

The terms of your permit may also require the submission of a report in support of the beneficial use.

7000/2617

PERMIT TERMS CONTINUED:

Monitoring program shall be submitted to the State Engineer's office on a quarter basis, within 30 days after the end of each calendar quarter. The terms & conditions set forth in State Engineer's Ruling No. 3870, dated March 2, 1992.

Monthly records shall be kept of the amount of water pumped from this well & the records submitted to the State Engineer on a quarterly basis within 15 days at the end of each calendar quarter.

The total combined duty of water under Permits 57373, 57374, 57375 and 57376 shall not exceed 430.19 acre-feet annually.

The issuance of this permit expires temporary Permit 57326-T.

EXHIBIT "A"

All T. 12 S., R. 48 E.; All T. 12 S., R. 49 E.; Sections 14 through 23 and 26 through 35, T. 12 S., R. 50 E.; All T. 13 S., R. 48 E.; All T. 13 S., R. 49 E.; Sections 7 through 9, 16 through 21 and 28 through 33, T. 13 S., R. 50 E.; Sections 1 through 3, 10 through 15, 22 through 27 and Section 36, T. 14 S., R. 48 E.; Sections 1 through 12, 15 through 22 and 27 through 34, T. 14 S., R. 49 E.; Sections 4 through 9, T. 14 S., R. 50 E.; Section 1, T. 15 S., R. 48 E.; Sections 3 through 6, T. 15 S., R. 49 E., all within M.D.B. & M. (unsurveyed)

EXHIBIT "B"

The Proposed Use is for road construction, dust suppression, tunneling, pad construction, scientific tests, culinary and other related site uses.



APPENDIX C14

PERMIT TO CHANGE POINT OF DIVERSION, MANNER
OF USE AND PLACE OF USE OF THE PUBLIC
WATERS OF THE STATE OF NEVADA
NO. 57376

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Serial No. 57376

APPLICATION FOR PERMISSION TO CHANGE POINT OF DIVERSION, MANNER OF USE AND PLACE OF USE OF THE PUBLIC WATERS OF THE STATE OF NEVADA HERETOFORE APPROPRIATED

Date of filing in State Engineer's Office APR 02 1992

Returned to applicant for correction _____

Corrected application filed _____ Map filed MAY 13 1992 under 57373

The applicant U. S. Department of Energy, Nevada Operations Office

2753 South Highland of Las Vegas

Nevada 89109 City or Town

Section and No. of P.O. See No. _____ hereby make 5 application for permission to change the

Place of Use and Manner of Use

Point of diversion, manner of use, and/or place of use of water heretofore appropriated under Permit #52338

Identify existing right by Permit, Certificate, Proof of Claim No., if Decree, give use of Decree or identify right in Decree.

1. The source of water is Underground
Name of stream, lake, underground spring or other source.

2. The amount of water to be changed 0.2 c.f.s.
Section feet, zero feet. One section foot equals 448 83 gallons per minute.

3. The water to be used for Industrial
Irrigation, power, mining, industrial, etc. If for stock water number and kind of animals.

4. The water heretofore permitted for Industrial and Domestic
Irrigation, power, mining, industrial, etc. If for stock water number and kind of animals.

5. The water is to be diverted at the following point NE 1/4 SW 1/4, Section 19, T.13S., R.50E., M.D.B.6
Describe as being within a 40-foot subdivision of public survey and by corner or distance to a certain corner. If an unsurveyed land, it should be stated.
at a point from which the SW corner of Section 31, T.13S., R.50E., bears S. 08° 46' 06" W., a distance of 13,298 feet.

6. The existing permitted point of diversion is located within _____
If point of diversion is not changed, do not answer.

7. Proposed place of use SEE ATTACHED EXHIBIT "A"
Describe by legal subdivisions. If for irrigation state number of acres to be irrigated.

C14-1

8. Existing place of use SEE ATTACHED EXHIBIT "B"
Describe by legal subdivisions. If permit is for irrigation, state number of acres covered. If otherwise...

Number of use or irrigation periods. describe amount to be removed from irrigation.

9. Use will be from January 1st to December 31st of each year.
Month and Day Month and Day
10. Use was permitted from January 1st to December 31st of each year.
Month and Day Month and Day
11. Description of proposed works. (Under the provisions of NRS 535.010 you may be required to submit plans and specifications of your diversion or storage works.) drilled well with pump and motor, water tank and distribution system.
State manner in which water is to be diverted, i.e. diversion structure, canals, pipes and boxes, or drilled well, etc.
12. Estimated cost of works \$1,330,000.00
13. Estimated time required to construct works completed under #52338.

14. Estimated time required to complete the application of water to beneficial use 10 years

15. Remarks: For use other than irrigation or stock watering, state number and type of units to be served or annual consumptive use:

This application 57373 and applications 57374 and 57375 shall not exceed 430.19
acre feet per annum from any and/or all sources. For the proposed use please
refer to Exhibit "C". Well designation J-13.

U.S. D.O.E., Nevada Operations Office
By s/Wendy Dixon WENDY DIXON
2753 South Highland
Las Vegas, Nevada 89109

Compared bc/bc ap/viv

Processed 7-23-92 by US Fish & Wildlife Service, 7-27-92 US Dept. of Interior
National Park Service

APPROVAL OF STATE ENGINEER

This is to certify that I have examined the foregoing application, and do hereby grant the same, subject to the following limitations and conditions:

This permit to change the place of use and manner of use of the waters of an underground source as heretofore granted under Permit 52338 is issued subject to the terms and conditions imposed in said Permit 52338 and with the understanding that no other rights on the source will be affected by the change proposed herein.

This permit is issued subject to existing rights. It is understood that the amount of water herein granted is only a temporary allowance issued under the provisions of NRS 533.371 for a finite period of time. This permit will expire on April 9, 2002 and all rights herein will revert back to the source but subject to reinstatement and extension of the permit for good cause shown. It is also understood that this right must allow for a reasonable lowering of the static water level. This well shall be equipped with a two (2) inch opening for measuring depth to water. A totalizing meter must be installed and maintained in the discharge pipeline near the point of diversion and accurate measurements must be kept of water placed to beneficial use. The totalizing meter must be installed before any use of water begins, or before the Proof of Completion of Work is filed. The State retains the right to regulate the use of the water herein granted at any and all times.
(CONTINUED ON PAGE 2)

The amount of water to be changed shall be limited to the amount which can be applied to beneficial use, and not to exceed 0.2 cubic feet per second, but not to exceed 94.83

acre-feet annually.

Work must be prosecuted with reasonable diligence and be completed on or before March 9, 1993

Proof of completion of work shall be filed before April 9, 1993

C14-3

Application of water to beneficial use shall be made on or before March 9, 2002

Done at

173000/2623

NR 11 2, 2002

N/A

Map in support of proof of beneficial use shall be filed on or before _____

Completion of work filed _____

of beneficial use filed _____

Cultural map filed _____

Certificate No. _____ issued _____

IN TESTIMONY WHEREOF, I, R. MICHAEL TURNIPSEED, P. E.

State Engineer of Nevada, have hereunto set my hand and the seal of my

office, this 18th day of August

A.D. 19 92


R. Michael Turnipseed
State Engineer



31730072624

(PERMIT TERMS CONTINUED)

This permit is issued subject to: 1) Compliance with the monitoring program titled "Monitoring Program for the Groundwater Levels and Spring Flows in the Yucca Mountain Region of Southern Nevada and California, February 1991, United States Department of Energy, Yucca Mountain Project Office." 2) Data collected from said monitoring program shall be submitted to the State Engineer's office on a quarterly basis, within 30 days after the end of each calendar quarter. 3) The terms and conditions set forth in State Engineer's Ruling No. 3870, dated March 2, 1992.

Monthly records shall be kept of the amount of water pumped from this well and the records submitted to the State Engineer on a quarterly basis within 15 days after the end of each calendar quarter.

The total combined duty of water under Permits 57373, 57374 and 57376 shall not exceed 430.19 acre-feet annually.

EXHIBIT "A"

All T. 12 S., R. 48 E.; All T. 12 S., R. 49 E.; Sections 14 through 23 and 26 through 35, T. 12 S., R. 50 E.; All T. 13 S., R. 48 E.; All T. 13 S., R. 49 E.; Sections 7 through 9, 16 through 21 and 28 through 33, T. 13 S., R. 50 E.; Sections 1 through 3, 10 through 15, 22 through 27 and Section 36, T. 14 S., R. 48 E.; Sections 1 through 12, 15 through 22 and 27 through 34, T. 14 S., R. 49 E.; Sections 4 through 9, T. 14 S., R. 50 E.; Section 1, T. 15 S., R. 48 E.; Sections 3 through 6, T. 15 S., R. 49 E., all within M.D.B. & M. (unsurveyed)

AMENDED**EXHIBIT "B"**

Section 13, Sections 25 through 29, and 32 through 36, T. 12 S., R. 48 E.; Sections 13 through 36, T. 12 S., R. 49 E.; Sections 14 through 23, and 26 through 35, T. 12 S., R. 50 E.; Sections 10 through 15, 22 through 27, and 34 through 36, T. 13 S., R. 48 E.; All T. 13 S., R. 49 E.; Sections 7 through 9, 16 through 21, and 28 through 33, T. 13 S., R. 50 E.; Sections 1 through 3, 10 through 13, 22 through 27, and Section 36, T. 14 S., R. 48 E.; Sections 1 through 12, 15 through 22, and 27 through 34, T. 14 S., R. 49 E.; Sections 4 through 9, T. 14 S., R. 50 E.; Sections 3 through 6, T. 15 S., R. 49 E., Section 1, T. 15 S., R. 48 E., all within M.D.B. & M. (unsurveyed)

EXHIBIT "C"

The Proposed Use is for road construction, dust suppression, tunneling, pad construction, scientific tests, culinary and other related site uses.

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
FREE USE APPLICATION AND PERMIT
VEGETATIVE OR MINERAL MATERIAL

FORM APPROVED
OMB NO 1004-001
EFFECTIVE 11 1987

Permit Number
1/06/201

Issue Date
1/06/201

Signature
L.A.S. 1985

Name of Applicant
Yucca Mountain Site Characterization Project
U.S. Department of Energy
Address (Include ZIP Code)
1435 1985

Kind of Material
Sand, Gravel, FILL Material
Give Near Land Description
TOWNSHIP
RANGE
SECTION
SUBDIVISION
1.135
R.50E
18
See attached map

State of Nevada
County of
Map are to be used for
Road and Road construction for site characterization activities

I HEREBY AGREE TO COMPLY WITH THE SPECIAL CONDITIONS AS SET FORTH BELOW. I CERTIFY THAT THE MATERIALS TO BE REMOVED ARE TO BE USED FOR THE PURPOSES NOT
STATED OTHER THAN AS SET FORTH BELOW. I CERTIFY THAT THE MATERIALS TO BE REMOVED ARE TO BE USED FOR THE PURPOSES NOT
STATED OTHER THAN AS SET FORTH BELOW. I CERTIFY THAT THE MATERIALS TO BE REMOVED ARE TO BE USED FOR THE PURPOSES NOT
STATED OTHER THAN AS SET FORTH BELOW.

I CERTIFY THAT I AM A CITIZEN OF THE UNITED STATES, AND OF THE AGE OF MAJORITY IN THE STATE IN WHICH I RESIDE.
I FURTHER CERTIFY THAT THE MATERIALS MADE BY ME IN THE APPLICATION ARE TRUE, COMPLETE, AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND ARE MADE IN
GOOD FAITH.

(Date)
1-28-72

(Signature of Applicant)
Hendy R. Dixon

This is U.S.C. Section 1001. There is a fine for any person who knowingly and willfully fails to comply with any provision of the Act or any regulation thereunder.
Violations are subject to the penalties provided in the Act and in the regulations thereunder.

SPECIAL CONDITIONS
This permit is hereby issued for the purposes stated in the application and subject to the following special conditions:
1. The permit is issued under the Act of July 31, 1947, as amended, and (2) the provisions of the Act of May 14, 1958 (AL 1201), and under the terms and provisions of the Act of May 14, 1958 (AL 1201), and under the terms and provisions of the Act of May 14, 1958 (AL 1201).

Information is contained in conformity with Section 116 U.S.C. 604-606 and Agency Regulations (43 CFR 55111-1101).
Information is used to conduct the purposes of the application.
Application must comply with the Act and the regulations thereunder.

see attached conditions (stipulations)

Information is contained in conformity with Section 116 U.S.C. 604-606 and Agency Regulations (43 CFR 55111-1101).
Information is used to conduct the purposes of the application.
Application must comply with the Act and the regulations thereunder.

Construction practices must be carried out as provided by (43 CFR 55111-1101),
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FREE USE STIPULATIONS

1. The rights of the Purchaser shall be subject to the regulations in 43 CFR, Group 1621, which are hereby made a part of this contract and to all other stipulations herein contained.
2. If the Purchaser violates any provisions of this contract the Authorized Officer may, through written notice, suspend any further operations of the Purchaser under this contract, except such operations as may be necessary to remedy any violations. If Purchasers fail to remedy all violations within 30 days after receipt of this suspension notice, the Authorized Officer may, by written notice, cancel this contract, and take appropriate action to recover all damages suffered by the Federal Government by reason of such violations. "Authorized Officer" means the Las Vegas District Manager or his duly appointed representative.
3. Purchaser will avoid the disturbance or removal of section corners, bench marks monuments, or other type survey markers. Where excavation or road building may require removal or relocation, the Authorized Officer will be contacted prior to such removal or relocation for special instructions.
4. Upon contract termination, the Purchaser will remove or dispose of all waste, which has accumulated in the Free Use Permit area as a result of the mining operation, in a public sanitary landfill or other proper disposal area. The term "waste", as used herein, includes, but is not limited to, garbage, human waste, trash, petroleum products and equipment.
5. The purchaser shall be liable for any damages suffered, cost, or expense incurred by the government arising out of any operations under this contract whenever such damages, costs, or expense results from any breach of contract or wrongful or negligent act of Purchaser, his contractors, subcontractors, or the employees of any of them. The Purchaser shall pay the Government for such damages, costs, or expense within thirty (30) days after a written demand therefore by the Authorized Officer. Failure to make payment within this period will result in the suspension of all free use to the Purchaser until payment is received.
6. Except for stockpiles of crushed or screened material, the pit floor will be kept reasonably level and uniform during the term of the contract. Stockpiles must be removed on or before contract termination unless additional time is approved in writing by the Authorized Officer. No material will be stockpiled within bottoms of washes.
7. When antiquities or other cultural objects of historic interest or scientific interest, including but not limited to, historic or prehistoric ruins, artifacts or vertebrate fossils, are discovered during the mining operation all operations will cease immediately. The cultural items will be left intact and immediately brought to the attention of the Authorized Officer in order that the cultural resource can be inspected, documented and/or salvaged.
8. Vertical cuts of three (3) feet or greater will be graded to a horizontal to vertical slope ratio of less than two to one (2 to 1) upon termination of the mining operation or contract.
9. Haul signs will be installed during pit use.
10. If activities expand to not previously disturbed areas or where topsoil is present, the topsoil will be salvaged and stockpiled on site to be used to spread over the recontoured pit during final reclamation.

11. The DOE will follow the terms and conditions issued to the Yucca Mountain Project by the U.S. Fish and Wildlife Service for desert tortoise in the Biological Opinion of February 1990 and revised May 1990 (attached). If the current terms and conditions are revised or a new Biological opinion issued, the DOE will follow the new terms and conditions while operating within the FUP site.
12. Final reclamation of the pit by the Department of Energy of the area of operation under the FUP will be conducted to a fashion acceptable to the Authorized Officer. Final reclamation will include recontouring of the pit area and revegetating the disturbed area. As called for in the Proposed Procedures to Protect Desert Tortoises During Site Characterization Activities and incorporated within the terms and conditions of the Biological Opinion, an effort will be made to grow forage palatable to tortoise, and to develop physical habitat features important to tortoises in reclaimed areas.

BIOLOGICAL OPINION

TERMS AND CONDITIONS

1. Preactivity tortoise surveys of specific construction or Plan activities sites shall be conducted by qualified biologists in order to locate all tortoises, burrows, dens, palleys, etc. If the particular site characterization activity (i.e. road, drill pad, etc.) can occur in an adjacent area(s) where no tortoises, burrows, dens, etc. are present, then the proposed activity shall be moved. If no suitable site is totally free of tortoises, dens, burrow, etc., then the qualified biologist shall determine which site would cause the least impact to tortoises/habitat.
2. Preactivity surveys will consist of 100% coverage of any site(s) being considered. Every burrow and den on such site shall be thoroughly checked for presence of tortoises and may require use of a fiber optic optiscope if other methods cannot conclusively show whether tortoises are present in burrows or dens.
3. If a particular activity cannot be redesigned or relocated then any tortoise present shall be removed by a qualified biologist and relocated to another area containing suitable tortoise habitat within or adjacent to the Yucca Mountain Project area on DOE-managed land. Collection of tortoises in burrows or dens shall be accomplished by digging out each burrow or den in a manner that will not cause harm to tortoises. All tortoises so relocated will be equipped with radio transmitters and monitored regularly and often in order to provide data applicable to the overall research need for additional information regarding relocation of desert tortoises. All tortoises shall be thoroughly examined visually for upper respiratory disease symptoms. If any such symptoms are observed, the U.S. Fish and Wildlife Law Enforcement Office, Las Vegas, shall be contacted for instructions on disposition of individual animals.
4. A qualified biologist shall be available in the vicinity (able to respond and remove any tortoise located within one hour of discovery on or adjacent to the site) of the project area during land clearing and grading operations to retrieve tortoises that may not have been collected previously from the site during preactivity surveys, or that attempt to enter the site from surrounding areas. If a tortoise is observed by construction personnel or equipment operators, they will suspend their activities until a biologist removes it. All such tortoises will be handled only by a qualified biologist, and will be equipped with a radio transmitter and monitored frequently (at least twice daily) to insure that they are not threatened by ongoing activities.
5. The Service will be kept informed via monthly written reports to the Reno Field Station of all tortoises relocated and radio-tagged either during preactivity surveys or as described under Condition No. 4, above. Additionally, the Reno Field Station will be informed promptly via telephone each time any tortoise is observed entering/re-entering any project activity site. If the Service determines that fencing a site(s) is necessary because of continued attempts by tortoises to access the site(s), DOE agrees to immediately construct such fencing after being notified by the Service in writing that the Service believes such fencing is necessary and appropriate in order to minimize incidental take.
6. Utility lines, towers, buildings, etc. shall be constructed/equipped using the best technology consistent with sound engineering practices to discourage use of transmission poles and other facilities by ravens. Abundance/distribution of ravens shall be monitored.

7. A worker education program shall be developed and provided to all construction foremen and crews, and to all other personnel, including engineers and scientists conducting site characterization studies, who may be present at any site(s). This program shall be approved by the Service and be implemented prior to the start of any construction to ensure that all personnel associated with site characterization activities are aware of desert tortoise issues.
8. All procedures identified in the consultation under Description of Proposed Action (referred to as Proposed Procedures to Protect Desert Tortoises during Site characterization activities) which were incorporated by reference as part of the Incidental Take statement.

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APPENDIX C16

FREE USE PERMIT
VEGETATIVE OR MINERAL MATERIAL
NO. N56844

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UNITED STATES DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENT FREE USE APPLICATION AND PERMIT VEGETATIVE OR MINERAL MATERIAL

FORM APPROVED OMB NO. 1004-001 EXPIRES UNDER 31, 1987 PERMIT NUMBER 156844 EXPIRES DATE January 6, 2001 DATE Las Vegas

NAME OF APPLICANT: Yucca Mountain Site Characterization Project Address (PRINTING USE ONLY): U.S. Department of Energy, P.O. Box 98408, Las Vegas, NV 89193-8608

TYPE OF MATERIAL: Sand, Gravel, FILL Material. Estimated quantity: 400,000 cu. yd.

Table with columns: TOWNSHIP, RANGE, SECTION, SUBDIVISION. Section 12, Range 3, Township 13S.

State of Nevada. Material to be used for Pad and Road construction for site characterization activities.

I HEREBY AGREE TO COMPLY WITH THE SPECIAL CONDITIONS... I CERTIFY THAT THE LAND DESCRIBED BY ME IN THIS APPLICATION...

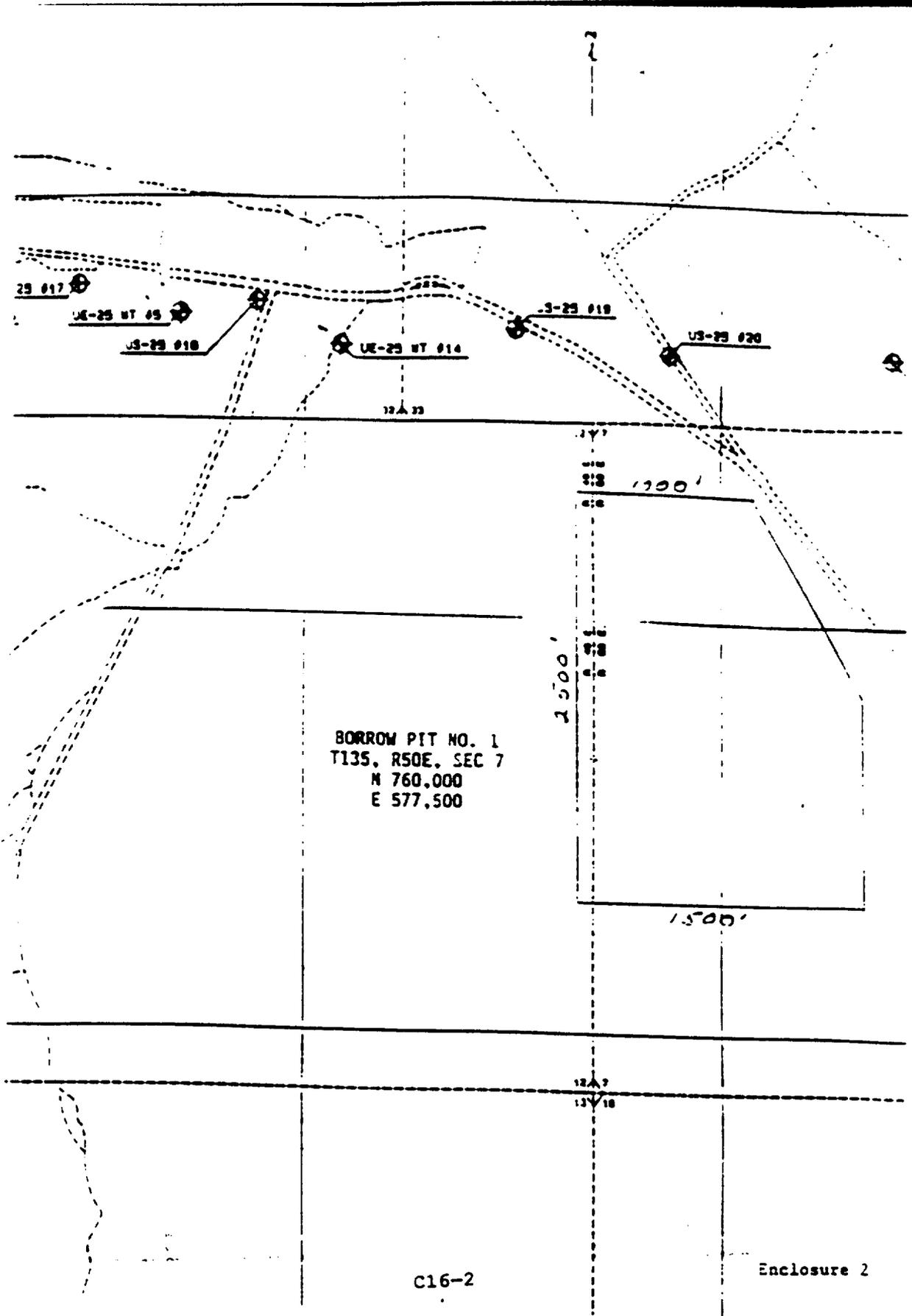
Signature of Applicant: Wendy R. Dixon. Date: 8-28-92.

PERMIT. This is U.S.C. Section 1951, which is a special use permit... SPECIAL CONDITIONS.

see attached stipulations. Information is contained in conformity with Section 116 U.S.C. 404-406 and Agency Regulations (43 CFR 3511.1-1101).

Information is contained in conformity with Section 116 U.S.C. 404-406 and Agency Regulations (43 CFR 3511.1-1101). Application shall proceed to obtain a permit.

DATE: 1-7-93. SIGNATURE OF APPLICANT: [Signature]



BORROW PIT NO. 1
 T135, R50E, SEC 7
 N 760,000
 E 577,500

C16-2

Enclosure 2



FREE USE STIPULATIONS
N56844

1. The rights of the Permittee shall be subject to the regulations in 43 CFR, Group 3621, which are hereby made a part of this contract and to all other stipulations herein contained.
2. If the Permittee violates any provisions of this contract the Authorized Officer may, through written notice, suspend any further operations of the Permittee under this contract, except such operations as may be necessary to remedy any violations. If the Permittee fails to remedy all violations within 30 days after receipt of this suspension notice, the Authorized Officer may, by written notice, cancel this contract, and take appropriate action to recover all damages suffered by the Federal Government by reason of such violations. "Authorized Officer" means the Las Vegas District Manager or his duly appointed representative.
3. The Permittee will avoid the disturbance or removal of section corners, bench marks monuments, or other type survey markers. Where excavation or road building may require removal or relocation, the Authorized Officer will be contacted prior to such removal or relocation for special instructions.
4. Upon contract termination, the Permittee shall remove or dispose of all waste, which has accumulated in the Free Use Permit area as a result of the mining operation, in a public sanitary landfill or other proper disposal area. The term "waste", as used herein, includes, but is not limited to, garbage, human waste, trash, petroleum products and equipment.
5. The Permittee shall be liable for any damages suffered, cost, or expense incurred by the government arising out of any operations under this contract whenever such damages, costs, or expense results from any breach of contract or wrongful or negligent act of Permittee, his contractors, subcontractors, or the employees of any of them. The Permittee shall pay the Government for such damages, costs, or expense within thirty (30) days after a written demand therefore by the Authorized Officer. Failure to make payment within this period will result in the suspension of all free use to the Purchaser until payment is received.
6. Except for stockpiles of crushed or screened material, the pit floor shall be kept reasonably level and uniform during the term of the contract. Stockpiles must be removed on or before contract termination unless additional time is approved in writing by the Authorized Officer. No material will be stockpiled within bottoms of washes.
7. When antiquities or other cultural objects of historic interest or scientific interest, including but not limited to, historic or prehistoric ruins, artifacts or vertebrate fossils, are discovered during the mining operation all operations will cease immediately. The cultural items will be left intact and immediately brought to the attention of the Authorized Officer in order that the cultural resource can be inspected, documented and/or salvaged.
8. Vertical cuts of three (3) feet or greater will be graded to a horizontal to vertical slope ratio of less than two to one (2 to 1) upon termination of the mining operation or contract.
9. Haul signs will be installed during pit use.
10. If activities expand to not previously disturbed areas or where topsoil is present, the topsoil will be salvaged and stockpiled on site to be used to spread over the recontoured pit during final reclamation.

11. The DOE will follow the terms and conditions issued to the Yucca Mountain Project by the U.S. Fish and Wildlife Service for desert tortoise in the Biological Opinion of February 1990 and revised May 1990 (attached). If the current terms and conditions are revised or a new Biological opinion issued, the DOE will follow the new terms and conditions while operating within the FUP site.
12. Pursuant to a recommendation by the U.S. Fish and Wildlife Service, the perimeter of the Free Use Permit area shall be fenced with tortoise-proof fencing prior to the initiation of site construction activities. This tortoise proof-fencing must be acceptable to the U.S. Fish and Wildlife Service. If the DOE finds that its area of operations will not disturb the entire Free Use Permit area, the DOE will only need to fence the area where site construction, surface disturbance, and pit operations will occur.
13. The DOE must follow the applicable standard operating practices set forth within the May 1986 Yucca Mountain Site, Nevada Research and Development Area, Nevada, Environmental Assessment section 4.1.2.6. The DOE must also follow recommendations to reduce impacts to tortoises and their habitat listed within the Biological Resources Preactivity Survey Report for Borrow Pit No. 1 (#92-023b) including the Site Specific Reclamation Stipulations included within the report (attached).
14. Final reclamation of the pit by the Department of Energy of the area of operation under the FUP shall be conducted to a fashion acceptable to the Authorized Officer. Final reclamation will include recontouring of the pit area and revegetating the disturbed area. As called for in the Proposed Procedures to Protect Desert Tortoises During Site Characterization Activities and incorporated within the terms and conditions of the Biological Opinion, an effort will be made to grow forage palatable to tortoise, and to develop physical habitat features important to tortoises in reclaimed areas.

APPENDIX C17

UNDERGROUND INJECTION CONTROL PERMIT
MODIFICATION 1
NO. NEV89031

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- 3) A map of the general well location has been included in permit as Figure 1.
- 4) Part I.A.1 of the permit has been changed to specify that the exact well location, construction and tracers are to be submitted to and approved by the Division prior to construction.
- 5) Part I.A.14 was added referencing the UIC regulations with which the permittee must comply.

Attached is a response to comments received during the public comment period.

PART I

A. EFFLUENT LIMITATIONS, MONITORING AND OTHER REQUIREMENTS

1. During the period beginning on the effective date of this permit and lasting through the expiration date, the permittee is authorized to inject water produced from well J-13 and approved tracers into wells UE-25c #1, UE-25c #2 and UE-25c #3 located within the NE $\frac{1}{4}$ Section 14, T.13S, R.49E., and fifty other test wells to be located within the Yucca Mountain Project area (see general location map, Figure 1), Nye County, Nevada. The exact location, well construction and tracers to be used is to be submitted to the Division and written authorization to proceed granted prior to construction. The permittee is further authorized to dispose of waters produced during testing to the ground surface adjacent to each well. Waters from other wells or sources other than well J-13 that will be used for injection will require chemical analysis and written approval from the Division prior to use.
2. All wastes shall be disposed of in accordance with the rules and regulations of this Division. All spills and releases shall be reported as required by NAC 445.238 to NAC 445.241.
3. Produced fluids shall be disposed in such a manner that they do not present a hazard to livestock, wildlife or the beneficial use of the waters of the State. Surface disposal at test wells other than the C-hole complex must have written authorization from the Division prior to discharge. Chemical analysis of the formation waters and well construction details must be submitted for review in determining surface disposal authorization.
4. The following tracers are hereby approved; benzoic acid (3 trifluoromethylbenzoate), pyridone, sodium chloride, lithium bromide, fluorescent microspheres and polystyrene spheres, lithium bromide, sulfur hexa-fluoride, nitrogen, and "SUVA" Cold-MP (tetra-fluoroethane). No chemical additives or tracers shall be added to the fluids prior to injection or disposal other than those listed.
5. Samples taken in compliance with the monitoring requirements specified in this permit shall be taken at the following locations:
 - a) At the discharge pipe or hose prior to discharge to the ground surface.

6. Samples of fluid from the location identified in Part I.A.5 shall be collected and analyzed for each time a different tracer is used. The sample must be taken during peak tracer recovery and analyzed for the following:

Total Dissolved Solids	pH	Lithium
Electrical Conductivity	Sodium	Strontium
Boron	Potassium	
Barium	Calcium	
Cadmium	Magnesium	
Chromium	Bicarbonate	
Lead	Chloride	
Selenium	Sulfate	
Silver	Nitrate	
Iron	Silica	
Manganese	Fluoride	
Copper	Arsenic	
Zinc	Mercury	
Gross Alpha	Gross Beta	

The detection limits for the constituents listed above must be at least as low as primary or secondary drinking water standards when applicable. The Division may increase or decrease the monitoring of any constituents as listed for good cause.

7. The permittee shall make quarterly reports which contain the following data:
- The results of the chemical analyses performed in that quarter.
 - Monthly summary containing the total volume of fluid produced or discharged to the ground surface (gal/month), and the date and duration of flow (hours).
 - Monthly summary containing the total volume injected (gal/month) and the amount and type of tracer injected.
 - A list of all production, injection, observation and test wells located within 2 miles of the project area and utilized by the permittee or their affiliates. Said list shall be chronological, listing the newest wells first, and shall include date of installation, depth, type of well, status (abandoned, plugged, not-in-use, etc.), well identification, schematic of well construction details, and location. All wells reported after the effective date of this permit will require submittal of a map indicating their location.

8. The permittee shall give 30 days advance notice to the Division of any planned major workover of any of the injection wells. Verbal approval may be given by the Division for such workovers. When standard or routine maintenance procedures for injection well cleanouts are developed, such procedures will be submitted to the Division for approval at least 48 hours in advance of commencement of workover.
9. The permittee is constrained to inject only those naturally produced fluids from well J-13 or other sources approved by the Division and those tracers listed in Part I.A.4.
10. The permittee shall construct all production, test and other wells in compliance with all State and federal regulations such that unauthorized releases do not occur. Following construction or reworking of production, test or other wells, the permittee shall submit plans and drawings of the completed well as constructed, including geology, and chemical analysis of the production waters that includes the constituents identified in Part I.A.6 of this permit.
11. All facilities and ancillaries encompassed by this permit shall conform to the plans and specifications filed with the Division of Environmental Protection and shall be maintained in good working order at all times.
12. The permittee shall submit an annual report by January/ 28th of each year, which contains a summary of the tracer tests and a discussion of the results of the tests relative to site hydrogeologic conditions.
13. The permittee must submit the annual review and service ~~report~~ in accordance with NAC 445.42515 no later than July ~~1st~~ and every year thereafter until the permit expires or is terminated.
14. The permittee shall comply with all UIC regulations pertaining to their project (NAC 445.422 thru 445.4273). This permit does not preclude the permittee from complying with any applicable State, federal or local laws or regulations.

B. MONITORING AND REPORTING

1. Samples and measurements taken as required herein shall be representative of the volume and/or nature of the subject of interest.

2. Test Procedures

Test Procedures for the analysis of the constituents shall conform to regulations (40 CFR, Part 136) published pursuant to Section 304(h) of the Clean Water Act, under which such procedures may be required, unless other procedures are approved by the Director. All analysis conducted pursuant to permit requirements must be completed by a State of Nevada certified laboratory.

3. Recording of Results

For each measurement or sample taken pursuant to the requirements of this permit, the permittee shall record the following information:

- a. the exact place, date, and time of sampling;
- b. the dates the analyses were performed;
- c. the person(s) who performed the analyses;
- d. the analytical techniques or methods used;
- e. the results of all required analyses; and
- f. the precision and accuracy of the analytical data.

4. Reporting

Monitoring results and other requirements obtained during the previous three months shall be summarized for each month and reported no later than the 28th day of the month following the completed reporting period. The first report is due on October 28, 1991. Signed copies of these, and all other reports required herein, shall be submitted to the UIC Program Officer at the following address:

Division of Environmental Protection
Bureau of Water Pollution Control
333 West Nye Lane
Capitol Complex
Carson City, NV 89710

5. Additional Monitoring by Permittee

If the permittee monitors any constituent at the locations(s) designated herein more frequently than required by this permit, or monitors additional constituents than required by this permit, using approved analytical methods as specified above, the results of such monitoring results shall be made available to the Division upon request.

6. Records Retention

All records and information resulting from the monitoring activities required by this permit, including all records and analyses performed and calibration and maintenance of instrumentation and recordings from continuous monitoring instrumentation, shall be retained for a minimum of three (3) years, or longer if required by the Director.

7. Modification of Monitoring Frequency, Location and Sample Type

After considering monitoring data, stream flow, discharge flow and receiving water conditions, the Division may, for just cause, modify the monitoring frequency, location and/or sample type by issuing an Order to the permittee.

PART

A. MANAGEMENT REQUIREMENTS

1. Change in Effluents or Discharge

All effluents or discharges authorized herein shall be consistent with the terms and conditions of this permit. The discharge of any constituent identified in this permit more frequently than or at a level in excess of that authorized shall constitute a violation of the permit. Any anticipated facility expansions, or treatment modifications which will result in new, different, or increased effluents or discharges must be reported by submission of a new application or, if such changes will not violate the limitations specified in this permit, by notice to the permit issuing authority of such changes. Following such notice, the permit may be modified to specify and limit any constituents not previously limited.

2. Noncompliance Notification

If, for any reason, the permittee does not comply with or will be unable to comply with the conditions, requirements and limitations specified in this permit, the permittee shall provide the Director with the following information, in writing, within five (5) days of becoming aware of such conditions:

- a. A description of the noncompliance; and,
- b. The period of noncompliance, including exact dates and times; or, if not corrected, the anticipated time the noncompliance is expected to continue, and steps being taken to reduce, eliminate and prevent recurrence of the noncompliance.

3. Facilities Operation

The permittee shall at all times maintain in good working order and operate as efficiently as possible, all treatment or control facilities, devices or systems installed or used by the permittee to achieve compliance with the terms and conditions of this permit.

4. Adverse Impact

The permittee shall take all reasonable steps, including such accelerated or additional monitoring as necessary to determine the nature and impact of the non-complying effluent or discharge, to minimize any adverse impact to waters of the State resulting from noncompliance with any limitations specified in this permit.

5. Bypassing

Any diversion from or bypass of facilities necessary to maintain compliance with the terms and conditions of this permit is prohibited except where unavoidable to prevent loss of life or severe property damage. The Division will have the final authority in the determination of whether a discharge is deemed unavoidable. The permittee shall promptly notify the Director in writing, of each such diversion or bypass, in accordance with the procedure specified in Part II.A.2 above.

B. RESPONSIBILITIES

1. Right of Entry

The permittee shall allow the Director and/or his authorized representatives, upon the presentation of credentials:

- a. To enter upon the permittee's premises where a source is located or in which any records are required to be kept under the terms and conditions of this permit; and
- b. To have access to, and to copy any records required to be kept under the terms and conditions of this permit; to inspect any monitoring equipment or monitoring method required in this permit; and to perform any necessary sampling to determine compliance with this permit or to sample any effluent or discharge.

2. Transfer of Ownership or Control

In the event of any change in control or ownership, the permittee shall notify the succeeding owner or controller of the existence of this permit, by letter, a copy of which shall be forwarded to the Director within 10 days of such change. All transfer of permits shall be approved by the Administrator of the Division of Environmental Protection.

3. Availability of Reports

Except for data determined to be confidential under NRS 445.311, all reports prepared in accordance with the terms of this permit shall be available for public inspection. Knowingly making any false statement on any such report may result in the imposition of criminal penalties as provided for in NRS 445.337.

4. Permit Modification, Suspension or Revocation

After notice and opportunity for a hearing, this permit may be modified, suspended, or revoked in whole or in part during its term for cause including, but not limited to, the following:

- a. Violation of any terms or conditions of this permit;

- b. Obtaining this permit by misrepresentation or failure to disclose fully all relevant facts; or
 - c. A change in any condition that requires either a temporary or permanent reduction or elimination of the effluent or discharge.
5. Civil and Criminal Liability
- a. Nothing in this permit shall be construed to relieve the permittee from civil or criminal penalties for noncompliance.
 - b. Nothing in this permit shall be construed to preclude the institution of any legal action or relieve the permittee from any responsibilities, liabilities, or penalties established pursuant to any applicable State law or regulation.
 - c. The issuance of this permit does not convey any property rights, in either real or personal property, or any exclusive privileges, nor does it authorize any injury to private property or any invasion of personal rights, nor any infringement of Federal, State or local laws or regulations.

PART III

A. Schedule of Compliance

- 1. The permittee shall achieve compliance with the conditions, limitations and requirements of the permit at the commencement of relevant activity.
- 2. The Administrator may, upon the request of the permittee, and after public notice, revise or modify a schedule of compliance in an issued permit if he determines good and valid cause (such as an act of God, a strike, materials shortage or other event over which the permittee has little or no control) exists for such revision.

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APPENDIX D

AUDIT SCHEDULES

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APPENDIX D2

DAILY SCHEDULE - AUDIT PHASE

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ENVIRONMENTAL COMPLIANCE AUDIT
AUDIT FY93A

GENERAL AUDIT AGENDA

(See attachments for detailed information)

Day 1--Monday 3/8/93 am

- Audit team in-planting with REECO personnel.
- Conduct interviews with REECO counterparts.
- Conduct detailed review of records.

Day 1--Monday 3/8/93 pm

- Continue interviews with REECO counterparts and other environmental/key personnel as appropriate.
- Continue review of documents, records, data cases as required.
- Conduct Audit Team caucus meeting.
- Conduct Day 1 debriefing with REECO personnel.
- Adjust Day 2 agenda if necessary.

AUDIT FY93A AGENDA
 MONDAY, MARCH 8, 1993

7:30	Inbriefing				
8:00	Interviews	<u>Olsson</u> Leske	<u>Wiltz/Jensen</u> West	<u>Robinson</u> Records Review	<u>Shelton</u> Barker
8:30					
9:00					
9:30					
10:00		<u>Olsson</u> West	<u>Wiltz/Jensen</u> Wade		<u>Shelton</u> Review Files
10:30					
11:00					
11:30					
12:00					
12:30			<u>Wiltz/Jensen</u> Joyce		<u>Shelton</u> West Review of Data Base
1:00		<u>Olsson</u> Wade			
1:30					
2:00					
2:30					
3:00					
3:30	Audit Team Caucus				
4:00	Day 1 Debrief				
4:30					
5:00					

D2-2

ENVIRONMENTAL COMPLIANCE AUDIT
AUDIT FY93A

GENERAL AUDIT AGENDA

(See attachment for detailed information)

Day 2--Tuesday 3/9/93 am

- Two Audit Team members travel to YMP to begin on-site audit activities.
- Initiate audit of Regulated Materials Management.
- Initiate audit of permit stipulation compliance.
- Detailed records reviews continue at Las Vegas locations.

Day 2--Tuesday 3/9/93 pm

- On-Site Regulated Materials Management and Permit Compliance audit work continues.
- Continue review of documents, records, data bases as required at Las Vegas locations.
- On-site audit team members conduct telephone caucus with Audit Team Leader and return to Las Vegas.
- Conduct Audit Team caucus meeting
- Conduct Day 2 debriefing with REECo personnel.
- Adjust Day 2 agenda if necessary.

AUDIT FY93A AGENDA-TUESDAY, MARCH 9, 1993

D2-4

6:30	Jensen/ Robinson to Site				
8:00		<u>Olsson</u> Records	<u>Springer</u> Review Files	<u>Fogdall</u> Review Records	<u>Wirtz</u> Review Records
8:30	<u>Jensen</u> Joyce				
9:00					
9:30	Reg. Mat. Mgmt.				
10:00			<u>Springer</u> Lesson Plus Inst Quals		
10:30					
11:00					
11:30					
12:00					
12:30					
1:00					
1:30					
2:00					
2:30	Jensen/ Robinson				
3:00	TE Caucus w/ ATL				
3:30	Rtn BofA	Caucus			
4:00		Debrief			
4:30					
5:00					

- Continue morning activities detailed above.
- Conduct audit team caucus on-site.
- Conduct Day 3 debrief on-site.
- Adjust Day 4 agenda as required.
- Audit team returns to Las Vegas.

Day 3--Wednesday 5/10/93 pm

- All audit team members travel to MSP.
- Continue audit & regulated materials management waste and waste communication.
- Continue audit & permit violation compliance.
- Conduct audits in reporting and processing permit violation, laboratory, environmental & industrial environmental and protection programs.

Day 3--Wednesday 5/10/93 am

See attachments for detailed information.

ENVIRONMENTAL COMPLIANCE AUDIT
AUDIT FY93A
CENTRAL AUDIT AGENDA

AUDIT FUNDRAISING AGENDA-WEDNESDAY, FEBRUARY 10, 1993

D2-6

6:00	AT tvi to site			
8:00	<u>Jensen</u> <u>Roberts</u>	<u>Robinson</u> <u>Wade</u>	<u>Springer</u> <u>Interviews</u>	Of course <u>Fogdall</u>
8:30	Reg Mat	Carolina		<u>Wirtz</u> Joyce
9:00				
9:30				
10:00				Be...
10:30				
11:00				
11:30				
12:00				
12:30	<u>Wirtz</u> <u>Jensen</u>			Lochow...
1:00	Clifton			
1:30				W. J.
2:00				
2:30			Caucus	
3:00			Debrief	
3:30				
4:00			Run to BoFA	
4:30				
5:00				

ENVIRONMENTAL COMPLIANCE AUDIT
AUDIT 8793A

GENERAL AUDIT AGENDA

(See appendices for detailed information)

DAY 4--Thursday 3/11/93 am

- Three audit team members travel to site to continue audit process of regulated materials management, permit compliance, waste minimization, and hazard communication.

- Environmental training program audit continues with review of lesson plans, instructor qualifications, and follow-up on previous issues.

- Follow-up of previous issues in reporting and processing operations information, resolution of environmental concerns, and environmental appraisal/protection programs.

DAY 4--Thursday 3/11/93 pm

- On-site Regulated Materials Management and Permit Compliance audit work continues.

- Continue audit and follow-up actions in training, reporting and processing, resolution of concerns, and environmental appraisal/protection programs.

- On-site audit team members conduct telephone caucus with audit team leader and return to Las Vegas.

- Conduct audit team caucus meeting

- Conduct Day 4 debriefing with RECO personnel.

- Adjust Day 5 agenda if necessary.

AUDIT FY93A AGENDA-THURSDAY, MARCH 11, 1993

D2-8

6:30	Wirtz Jensen			
8:00	<u>Robinson</u> to site		<u>Olsson</u> Follow-up	<u>Fogdell</u> Follow-up
8:30	<u>Jensen</u> Waste Min	Wirtz <u>Robinson</u> Permits Wade Cato		<u>Springer</u> Lsn. Plans Inst Qual Follow-up
9:00				
9:30	Haz Com Clingan Hayworth Holmes			
10:00				
10:30				
11:00				
11:30				
12:00				
12:30				
1:00				
1:30				
2:00				
2:30	T.P. Caucus w/ATL			
3:00	Return to BoIA			
3:30			Caucus	
4:00			Brief	
4:30				
5:00				

ENVIRONMENTAL COMPLIANCE AUDIT
AUDIT FY93A

GENERAL AUDIT AGENDA

See attachments for detailed information.

Day 5--Friday 3/12/93 am

- Travel to YMP to complete investigation, as required.
- Conclude reviews of documents, records, data bases.
- Develop and review findings.

Day 5--Friday 3/12/93 pm

- Travel from YMP to Las Vegas, as required.
- Continue finding development and review.
- Begin Audit Report preparation.
- Audit Team Leader conducts one-on-one Day 5 debrief with REECo point of contact.

AUDIT FY93A AGENDA-FRIDAY, MARCH 12, 1993

D2-10

6:30	Jensen and <u>Robinson</u> to site		<u>Olsson</u>	<u>Fogdall</u> Conclude Reviews	<u>Springer</u>
8:00					
8:30	<u>Jensen</u>	<u>Robinson</u>		Develop/ Review Findings	
9:00					
9:30					
10:00					
10:30					
11:00					
11:30					
12:00					
12:30					
1:00					
1:30					
2:00					
2:30	T. P. caucus w/ATL (if required)				
3:00	Return to BofA				
3:30				Caucus	
4:00				Meeting	
4:30					

APPENDIX E

LIST OF AUDIT TEAM MEMBERS

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AUDIT TEAM PERSONNEL

The names of the audit team members and their primary area of responsibility are listed below. This listing includes a brief biographical summary and years of experience for each team member.

NAME: Sid Dodd
M.S. Management

AUDIT RESPONSIBILITY: Audit Team Leader

YEARS OF EXPERIENCE: 33

BIOGRAPHICAL SUMMARY: Mr. Dodd has broad, hands-on experience in the management of multi-discipline organizations and projects. At SAIC he has had both management and technical analyses experience in preparing environmental report documents. His USAF command experience includes responsibility for environmental compliance and protection. He is conversant with the body of environmental regulations as they apply to federal facilities.

NAME: Kent Wirtz,
M.S. Biology/Biochemistry

AUDIT RESPONSIBILITY: Technical Coordinator

YEARS OF EXPERIENCE: 17

BIOGRAPHICAL SUMMARY: Mr. Wirtz is Hazardous Materials Coordinator for the Technical and Management Support Services. His expertise in hazardous waste management includes the development of associated procedures and operations programs. He oversees the Request for Authorization Program under AP 6.13 which identifies, authorizes, and tracks the use of regulated materials on the project. He performs reporting of hazardous material releases to the State and National Response Centers. He performs environmental training and oversight functions. He is a State of Nevada Certificated Environmental Manager.

NAME: Bonnie C. Fogdall
Coursework at Arizona State University, Idaho State University, University of Idaho, Clark County Community College, Stevens Henager Business College

AUDIT RESPONSIBILITY: Reporting and Processing Operation Information

YEARS OF EXPERIENCE: 22

BIOGRAPHICAL SUMMARY: Ms. Fogdall is an Environmental Technical Specialist for the Technical and Management Support Services for the YMP. In addition to providing programmatic support for YMP environmental compliance and permitting activities, she also conducts field surveillances, is the job package coordinator for all environmental remediation job packages, and is database manager for the hazardous materials program. She has extensive experience in document control and records management, including those associated with the Idaho National Engineering Laboratory Environmental Restoration Program.

NAME: Kathryn Jensen
B. A. Chemistry

AUDIT RESPONSIBILITY: Regulated Materials Management

YEARS OF EXPERIENCE: 2

BIOGRAPHICAL SUMMARY: Ms. Jensen is an Environmental Scientist for Technical and Management Support Services for the YMP. She assists in the hazardous materials and waste management programs and conducts reviews of Requests for Authorization to use regulated materials. She participates in environmental compliance audits. She identifies environmental data requirements for the YMP through review, analysis and interpretation of federal, state, and local environmental regulations.

NAME: Karen Olsson
B. A. Aquatic Biology

AUDIT RESPONSIBILITY: Resolutions of Environmental Safety and Health Concerns; Environmental Safety and Health Appraisal; and Environmental Safety and Health Protection Program of U.S. DOE Operations.

YEARS OF EXPERIENCE: 8

BIOGRAPHICAL SUMMARY: Ms. Olsson has participated in environmental compliance audits at several U.S. Army National Guard installations in South Dakota and Louisiana. She worked as a team leader in the South Dakota audits. She has been involved in the preparation of administrative procedures dealing with hazardous waste accumulation and on environmental compliance auditing and surveillance. She is responsible for revising and updating the YMP Environmental Regulatory Compliance Plan, Environmental Management Plan and Environmental Protection Implementation Plan.

NAME: Christine Robinson
M.A. Sociology

AUDIT RESPONSIBILITY: Permit Agreement Compliance

YEARS OF EXPERIENCE: 2

BIOGRAPHICAL SUMMARY: Ms. Robinson oversees the implementation of YMP Administrative Procedure - 8.1, Land Access and Environmental Compliance. She is instrumental in obtaining permits, insuring compliance with permit requirements, and in processing tracer and waiver requests for YMP activities. She participates regularly in environmental surveillances of YMP field work. She serves as the permitting technical specialist for environmental audits by the T&MSS Environmental Compliance and Permitting Department.

NAME: Debra Springer
Coursework, Sheridan Junior College

AUDIT RESPONSIBILITY: Environmental Training Program

YEARS OF EXPERIENCE: 15

BIOGRAPHICAL SUMMARY: Ms. Springer is responsible for the monitoring of department training requirements and maintenance of training records for the Technical and Management Support Services (T&MSS) Environmental Compliance and Permitting Department (ECPD). In prior work in the T&MSS Training Department, her duties involved reviews of personnel training files for completeness and for compliance with project training requirements. In addition to serving as a member of environmental compliance audit teams, she participates regularly in environmental surveillances of YMP field work.

APPENDIX F

LIST OF AUDIT CONTACTS/INTERVIEWS

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LIST OF AUDIT CONTACTS/INTERVIEWS

AUDITOR	CONTACT/ INTERVIEWEE	POSITION	ORGANIZATION	NUMBER OF CONTACTS/ INTERVIEWS	
<u>S. Dodd</u>	Dong Kim	Regulatory Compliance Division, Self-Assessment Observer	Headquarters, DOE	4	
	Robert Pritchett	Technical Project Officer	REECo	1	
	John West	Audit Point of Contact	REECo	16	
<u>K. Wirtz</u>	Joe Catozzi	Superintendent of Construction Operations	REECo	1	
	Cathryn Davenport	Senior Staff Assistant (Construction)	REECo	1	
	Cindy Dutro	Environmental Systems Specialist	REECo	1	
	Clarence Mason	Department Manager (Drilling)	REECo	1	
	Cindy Napper	Secretary (Drilling)	REECo	1	
	Scott Wade	Environmental Compliance Officer III	REECo	1	
	John West	Hazardous Materials Coordinator	REECo	2	
	<u>K. Olsson</u>	James Henze	Occupational Safety Professional II	REECo	1
		Ricky Joyce	Senior Drilling Engineer	REECo	1
Randy Leske		Safety Professional III	REECo	1	
Michael Pochowski		Industrial Hygienist II	REECo	1	
Scott Wade		Environmental Compliance Officer III	REECo	3	
John West		Division Quality Coordinator	REECo	2	
<u>B. C. Fogdall</u>	James Henze	Occupational Safety Professional III	REECo	1	

LIST OF AUDIT CONTACTS/INTERVIEWS

AUDITOR	CONTACT/ INTERVIEWEE	POSITION	ORGANIZATION	NUMBER OF CONTACTS/ INTERVIEWS
<u>B. C. Fogdall (continued)</u>	Ricky Joyce	Senior Drilling Engineer	REECo	1
	Michael Pochowski	Industrial Hygienist II	REECo	1
	Scott Wade	Environmental Compliance Officer III	REECo	1
	John West	Senior Staff Quality Coordinator	REECo	2
	Winn Wilson	Site Manager	YMP/DOE	1
<u>D. Springer</u>	M. Connie Barker	Training Administrator	REECo	4
	Gregg Calvird	Industrial Hygienist	REECo	1
	Joe Catozzi	Superintendent of Construction Operations	REECo	1
	Teresa Cobb	Office Assistant III	REECo	2
	Cathryn Davenport	Senior Staff Assistant (Construction)	REECo	2
	Cecil Davis	Section Chief for Administration and Technical Support	REECo	2
	Cindy Dutro	Environmental Systems Specialist	REECo	8
	Cindy Graci	Senior Staff Assistant (Drilling)	REECo	3
	Frances Hansen	Office Assistant II	REECo	1
	Alice Hammon	Training Records Supervisor	T&MSS	2
	Ricky Joyce	Senior Drilling Engineer	REECo	2
	Linda Liles	Training Records Clerk	T&MSS	1
	Sandy Lloyd	Field Training Assistant	T&MSS	1

LIST OF AUDIT CONTACTS/INTERVIEWS

AUDITOR	CONTACT/ INTERVIEWEE	POSITION	ORGANIZATION	NUMBER OF CONTACTS/ INTERVIEWS
<u>D. Springer</u> (continued)	Clarence Mason	Department Manager (Drilling)	REECo	1
	Brenda Milsap	Training Records Specialist	T&MSS	1
	Brenda Potec	Office Assistant III	REECo/YMP Project Office	3
	Robert Pritchett	Technical Project Officer	REECo	1
	Emily Reiter	Senior Quality Assurance Specialist	REECo	1
	Theresa Robotham	GET Coordinator	T&MSS	2
	Robert Rommel	Project Engineer (Construction)	REECo	1
	Bonnie Spencer	Assistant Manager Education and Training	REECo	2
	Joe Stephenson	Department Manager, Education and Training	REECo	1
	Steven Straub	Department Manager, Logistical Support	REECo	4
	Mary Swords	Administration Records Coordinator	REECo	4
	Rufus Taylor	Senior Staff Advisor (Field Test Support)	T&MSS	1
	Linda Townsend	Department Secretary (Training)	T&MSS	1
	Betty Williams	Office Assistant II	REECo	2
	Dennis Vetter	Section Chief of Core Programs	REECo	2
<u>K. Jensen</u>	John Allen	Construction Superintendent	REECo	2
	Todd Clifton	Satellite Accumulation Area Operator	REECo	1

F-3

LIST OF AUDIT CONTACTS/INTERVIEWS

AUDITOR	CONTACT/ INTERVIEWEE	POSITION	ORGANIZATION	NUMBER OF CONTACTS/ INTERVIEWS
<u>K. Jensen</u> (continued)	Ricky Joyce	Alternate Hazardous Materials Coordinator	REECo	4
	Amy Peterson	Waste Minimization Coordinator	REECo	1
	Michael Pochowski	Industrial Hygienist	REECo	1
	William Roberts	Satellite Accumulation Area Operator	REECo	1
	Juan Sanchez	Satellite Accumulation Area Operator	REECo	1
	Larry Saxon		REECo	1
	Scott Wade	Environmental Compliance Officer III	REECo	1
	John West	Hazardous Materials Coordinator	REECo	3
	<u>C. Robinson</u>	Ron Baugh	Site Maintenance/Steam and Water	REECo
Joe Catozzi		Superintendent of Construction Operations	REECo	1
Larry Croft		Environmental Field Programs Division Manager	T&MSS/SAIC	1
Ricky Joyce		Senior Drilling Engineer	REECo	1
Michael Pochowski		Industrial Hygienist II	REECo	1
J. Kayce Prince		Radiological Field Programs Division Manager	T&MSS/SAIC	1
Scott Wade		Environmental Compliance Officer	REECo	5
David Wonderly		Project Manager/Drilling	REECo	3

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LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>Sid Dodd</u>	Environmental Auditing Vol I	DOE	1/93
	Environmental Auditing Vol II	DOE	1/93
	Performance Objectives and Criteria for DOE Environmental Audits, DOE/EH-0229	DOE	
	AP-5.46, Environmental Compliance Auditing and Surveillance of Yucca Mountain Site Characterization Project Activities	YMP	8/14/92
	AP-2.9, Occurrence Reporting and Processing of Operations Information	YMP	12/26/90
	T&MSS QA Project Description	T&MSS	1/90
	DOE 5480.19, Conduct of Operations Requirements for DOE Facilities	DOE	7/90
	DOE 5400.1, General Environmental Protection Program	DOE	11/88
	DOE 5483.1A, Occupational Safety and Health Program for DOE Contractor Employees at Government Owned Contractor-Operated Facilities	DOE	06/83
	DOE 5500.2A, Emergency Notification, Reporting, and Response Levels	DOE	4/13/80
	DOE/NV 5500.2-2, Emergency Planning, Preparedness and Response for Operations	DOE	9/82
	DOE 5500.3, Reactor and Nonreactor Nuclear Facility Emergency Planning, Preparedness and Response Program for U.S. Department of Energy Operations	DOE	8/81

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>Sid Dodd</u> (Continued)	DOE 5500.3A, Planning and Preparedness for Operational Emergencies	DOE	2/92
	DOE/NV 5500.3, Emergency Preparedness Program and Notification Systems	DOE	3/89
	Training Management Plan	YMP	7/92
	Federal Environmental Inspection Handbook	DOE	10/91
	T&MSS Environmental Safety and Health Plan	T&MSS	8/92
	Hazardous Materials Coordinator Training Manual	YMP	10/92
	Environmental Auditing for Federal Facilities	Executive Enterprises, Inc	11/90
	Environmental Audit Manual, Vol I (DOE/EH-0125)	DOE	01/90
	Environmental Audit Manual, Vol II (DOE/EH-0125)	DOE	01/90
	Environmental Audit Manual, Vol III (DOE/EH-0125)	DOE	01/90
	Environmental Protection Functional Appraisal Program Review Guide	DOE	11/88
	Conducting an Environmental Audit	Executive Enterprises, Inc	1989
	Multi-Media Compliance Audit Procedures	U.S. EPA	07/85
	Environmental Compliance: A Simplified National Guide, Vol I	Speciality Technical Publishers	12/92
	Environmental Compliance: A Simplified National Guide, Vol II	Speciality Technical Publishers	12/92

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>Sid Dodd</u> (continued)	DOE Environmental Audit Program Guidance (DOE/EH-0232)	DOE	01/92
	AP-6.18, Resolutions of Environment, Safety and Health Concerns	YMP	08/91
	AP-5.38, Environmental Safety and Health Appraisal	YMP	11/92
	AP-5.43, Environmental Safety and Health Protection Program for U.S. Department of Energy Operations	YMP	09/92
	Hazardous Materials Management and Handling Plan	YMP	07/92
	AP-6.25, Operating Hazardous Waste Satellite Accumulation Areas	YMP	08/92
	YMP-FOI-3001, Yucca Mountain Field Training Program	YMP	07/91
	Environmental Regulatory Compliance Plan	YMP	07/92
	AP-6.27, Waste Assessment	YMP	02/93
	AP-6.13, Authorization for Use of Regulated Hazardous Substances and Materials	YMP	10/90
	AP-8.1, Land Access and Environmental Compliance	YMP	08/91
	SAIC Environmental Compliance Assessment System QA Project Plan	SAIC	07/92
	Environmental Restoration Waste Management 5 Year Plan	DOE	08/91
	YMP-FOI-5403, Hazard Communications Program	YMP	08/92
	SP-1.64, Chemical Hazard Communications Program	T&MSS	09/92

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>Sid Dodd</u> (continued)	Air Quality Permit to Construct 2693	State of NV	06/91
	Air Quality Permit to Construct 2893	State of NV	11/91
	Air Quality Permit to Construct 3084	State of NV	06/92
	Air Quality Permit to Construct 3197	State of NV	09/92
	Air Quality Permit to Construct 3199	State of NV	09/92
	Air Quality Permit to Construct 3267	State of NV	01/93
	Air Quality Permit to Construct 3268	State of NV	10/92
	Underground Injection Control Permit NEV 89031	State of NV	05/92
	Waters of An Underground Source Permit 57373	State of NV	08/92
	Corrected Permit No. 57374 for the Waters of An Underground Source Permit	State of NV	10/92
	Permit to Appropriate the Public Waters of the State of Nevada - Change in Place of Use 57376	State of NV	08/92
<u>K. Olsson</u>	AP-6.18, Resolutions of Environment, Safety and Health Concerns	Yucca Mountain Site Characterization Project Procedure	8/6/91
	U.S. Department of Energy (DOE) Order 5483.1A Occupational Safety & Health Program for DOE Contractor Employees at Government-owned Contractor-Operated Facilities	DOE, Washington, D.C.	6/22/83
	Nevada Occurrence Reporting System Operations Center (NORSOC)	DOE, Nevada Field Office	10/27/92

G-4

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
K. Olsson (continued)	Reynolds Electrical and Engineering Co., Inc. (REECO) Environmental Compliance Department Activities Report, January 1993	Frank E. Bingham/ REECO	2/10/93
	REECO Company Procedure (CP) 1.11.5, Occurrence Reporting System	REECO	1/28/93
	REECO CP 1.11.16, System Deficiency Report	REECO	2/24/92
	REECO CP 1.11.17.01, Stop Work Order	REECO	1/28/93
	REECO Memorandum transmitting Revised NTS Spill Notification Instructions	C. J. Mason/REECO	3/2/93
	REECO CP 1.8.21, Safety & Health Committee Program	REECO	2/18/93
	Letter to Edward W. McCann from Frank E. Bingham on Visual emissions at LM300 Drill Rig	F. E. Bingham/REECO/ E. W. McCann	7/31/92
	Memo to Wonderly thru Bingham from Calman on Visible Emissions at LM300 Drill Rig	E. C. Calman/REECO/ D. Wonderly	7/15/92
	Occupational Safety Code A-9, Reporting NTS Emergency 911/Mayday System	REECO	3/31/91
	Occupational Safety Code A-10, Occurrence Reporting	REECO	10/1/91
	Historical Spills - Active Sites (Spill Registry)	REECO	N/A
	"What To Do If You Have a Spill" from the "REECO Recorder," a Monthly Newsletter	REECO	N/A
	AP-5.38 Environmental Safety and Health Appraisal	Yucca Mountain Site Characterization Project Procedure	11/16/92

G-5

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>K. Olsson</u> (continued)	DOE/Nevada Operations Office Order NV 5482.1B-19 Environment, Safety & Health Appraisal Program	DOE/Nevada Operations Office Order	10/7/87
	REECo Management Control Procedure MC-14.1, Env. Safety & Health Internal Appraisal Program	REECo	7/14/92
	Environmental Safety & Health Internal Appraisal Program	J. W. West/REECo	12/9/92
	Environmental Compliance Office Surveillance, Inspection & Appraisal Schedule for 1st and 2nd quarters, FY 1993	T. E. Taylor/REECo	10/13/92
	REECo Company Policy 2.3.2, Environment, Safety, and Health Self-Assessment Program	REECo	12/24/91
	REECo Management Control Procedure MC-11.1, Deficiency Notices	REECo	7/14/92
	REECo Management Control Procedure MC-11.3/0, Corrective Action	REECo	4/24/92
	Safety and Health Program Functional Appraisal	Ltr to R. F. Pritchett from W. A. Wilson; W. Wilson/T&MSS/ R F Pritchett	3/9/93
	Environmental Compliance Office Standard Operating Procedure No. AAFzz.D.05.00, Env. Appraisals	REECo	11/16/92
	Env. Compliance Office Standard Operating Procedure No. AAFzz.D.04.00, Compliance Evaluations	REECo	11/15/92

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
K. Olsson (continued)	Management of Appraisals of Environment, Safety and Health (ES&H)	Ltr from R. F. Pritchett to W R. Dixon, R.F.Pritchett/REECo/ W R Dixon	9/23/92
	AP-5.43 Environmental Safety and Health Protection Program for DOE Operations	Yucca Mountain Site Characterization Project Procedure	9/22/92
	REECo CP Env Safety and Health Section Table of Contents	REECo	12/91
	REECo Company Policy 2.3.1, Environment	REECo	3/8/91
	Organization Statement 530A, Environmental Compliance Office	REECo	11/22/89
	REECo CP 1.8.7, Environmental Regulations	REECo	3/16 89
	REECo CP 3.2.53, Response to Spills and Leaks of Hazardous Materials	REECo	4/30 91
	REECo CP 3.2.54, Polychlorinated Biphenyls	REECo	7/31 91
	Standard Operating Procedure DD-SOP 031, Response to Spills and/or Leaks of Hazardous Materials	REECo	1/9 90
	Yucca Mountain Project Technical Control Procedure TC-583-SP-0006 "Response to Spills"	REECo	Preliminary Draft
	Checkstuffer, REECo Employees' Rights and Responsibilities under the DOE Occupational Safety and Health Program	REECo	N/A
	Checkstuffer, Reduction of Spills at the NTS	REECo	N/A

G-7

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>K. Olsson</u> (continued)	Contaminated Soil and Groundwater Remediation Policy	State of Nevada/Nevada Division of Env. Protection	6/25/92
	Checkstuffer, Desert Tortoise Protection	DOE/Nevada Operations Office	N/A
	Checkstuffer, Waste Reduction and Pollution Prevention - Everyone's Job	D. Fraser/REECo	N/A
	Checkstuffer, Sighting on the NTS	D. Fraser/REECo	N/A
	Checkstuffer, Environmental Hotline	D. Fraser/REECo	N/A
	Checkstuffer, Natural Resources, Artifacts, Wildlife	D. Fraser/REECo	N/A
	Env. Compliance Audit Logbook, Audit FY93A - REECo	T&MSS/ECPD	3/93
	Performance Objectives and Criteria for Environmental Management	U.S. DOE Office of Env. Audit	N/A
<u>B. C. Fogdall</u>	Occurrence Report Open Item Summary One Line Update (Example)	REECo	3/2/93
	Complete Occurrence Reports (Example)	REECo	3/2/93
	Occurrence Report File 93-0002, C-Hole Spills	REECo	Various
	Occurrence Report File 92-0006, NRG-6 Hydraulic Line	REECo	Various
	Occurrence Report File 92-0002 UZ-1 Generators	REECo	Various
	Occurrence Report File 91-1001, Sublock Valve Left On	REECo	Various
	Occurrence Status Report by Occurrence Number (Example)	REECo	3/5/93

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
B. C. Fogdall (continued)	Occurrence Reporting and Processing System Categorization to Final Log Report (Example)	REECo	3/5/93
	Occurrence Reporting and Processing System Categorization by 10 Day Log Numbers (Example)	REECo	3/5/93
	REECo CP 1.11.5, Occurrence Reporting System and DCN 1.11.5-01	REECo	1/28/93
	Ltr - C. Mason to Dist. 1993-0002 Occurrence Critique (copied from 93-0002 File)	C. J. Mason/REECo/Distribution	2/2/93
	Occurrence Report File 92-0004, Historical Oil Spill - Subdock	REECo	Various
	Occurrence Report File, 92-0007, Broken hydraulic Hose - Watemaster	REECo	Various
	Occurrence Report File 93-0005, Misc and Spills, NRG-6 & J-13	REECo	Various
	Occurrence Report File 93-0006, Punctured Diesel Fuel Tank Backhose	REECo	Various
	REECo memo, Visible Emission Eval for Busted Butte Fault Lines	Mike Pochowski and K. Krenzier/ REECo/T. Leonard	8/27/92
	REECo memo, IH Survey: Space Heaters for Drilling Ops - Area 25	From Mike Pochowski and H. F. Kerchner/REECo/R. F. Pritchett	1/20/92
	REECo CP 3.2.53, Response to Leaks and Spills of Hazardous Materials	K. Jensen	4/30/91

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
B. C. Fogdall (continued)	YMP-FOI-5001, Reporting Emergencies, Unusual Occurrences, and Off-Normal Events To DOE/HQ in Accordance with DOE Order 5000.3A	YMP Site Manager/YMP/Various	8/2/92
	YMP Project Management Plan, Rev. 2	YMP	Aug 1990
	Audit Plan for Environmental Compliance Audit of REECo	S. Dodd/T&MSS-ECPD/Auditors	Mar 1993
	Environmental Regulatory Compliance Plan for YMP	YMP/YMP/92-2, Rev. 0	Aug 1992
	AP-5.46, Environmental Compliance Auditing & Surveillance of YMP	YMP	8/14/92
	REECo Monthly Spill Report - 1/93	F. Bingham/REECo/D. Elle/DOE, EPD	2/12/93
	Checklist, Reporting and Processing Checklist	S. Dodd/B. Fogdall/T&MSS-ECPD/ B. Fogdall	2/17/93
	AP-2.9, Occurrence Reporting and Processing of Ops Info	YMP	7/27/92
	Revised NTS Spill Notification Inst.	C. Mason/REECo/Distribution	3/2/93
	AP-6.18, Resolutions of ES&H	YMP	8/6/91
	DOE Order 5483.1, OSH Prog for GOCOs	DOE/HQ	6/22/83
	REECo Environmental Compliance Department Report - Jan 1993	F. Bingham/REECo/Dist	2/10/93
	AP-6.18, Resolutions of Environment, Safety and Health Concerns	Yucca Mountain Site Characterization Project Procedure	8/6/91

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
B. C. Fogdall (continued)	DOE Order 5483 1A, Occupational Safety & Health Program for DOE Contractor Employees at Government Owned Contractor-Operated Facilities	U.S. Department of Energy, Washington, DC	6/22/83
	Nevada Occurrence Reporting System Operations Center (NORSOC)	DOE Nevada Field Office	10/27/92
	REECo Environmental Compliance Department Activities Report for January 1993	Frank Bingham/REECo	2/10/93
	REECo CP 1.11.5, Occurrence Reporting system	REECo	1/28/93
	REECo CP 1.11.16, System Deficiency Report	REECo	2/24/92
	REECo CP 1.11.17 01, Stop Work Order	REECo	1/28/93
	REECo Memorandum transmitting, Revised NTS Spill Notification Instructions	C. J. Mason/REECo	3/2/93
	REECo CP 1.8.21, Safety & Health Committee Program	REECo	2/18/93
	Letter to Edward W. McCann from Frank E. Bingham on Visual Emissions at LM300 Drill Rig	F. E. Bingham/REECo/ E. W. McCann	7/31/92
	Memo to Wonderly thru Bingham from Calman on Visible Emissions at LM300 Drill Rig	E.C. Calman/REECo/D. Wonderly	7/15/92
	Occupational Safety Code A-9, Reporting NTS Emergency 911/Mayday System	REECo	3/31/91
	Occupational Safety Code A-10 Occurrence Reporting	REECo	10/1/91
	"What To Do If You Have A Spill"	REECo	N/A
	AP-5.43, Environmental Safety and Health Protection Program for DOE Operations	Yucca Mountain Site Characterization Project Procedure	9/22/92

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>B.C. Fogdall</u> (continued)	REECo CP Env. Safety and Health Section Table of Contents	REECo	12/1/91
	REECo Company Policy 2.3.1, Environment	REECo	3/8/91
	Organization Statement 530A, Environmental Compliance Office	REECo	11/22/89
	REECo CP 1.8.7, Environmental Regulations	REECo	3/16/89
	REECo CP 3.2.53, Response to Spills and Leaks of Hazardous Materials	REECo	4/30/91
	REECo CP 3.2.54, Polychlorinated Biphenyls	REECo	7/31/91
	Standard Operating Procedure DD-SOP-031, Response to Spills and/or Leaks of Hazardous Materials	REECo	1/9/90
	Yucca Mountain Project Technical Control Procedure TC-583-SP-0006, Response to Spill	REECo	Preliminary Draft
	Checkstuffer, REECo Employees' Rights and Responsibilities under the DOE Occupations Safety and Health Program	REECo	N/A
	Reduction of Spills at the NTS	REECo	N/A
	Contaminated Soil and Groundwater Remediation Policy	State of Nevada/Nevada Division of Env. Protection	6/25/92
<u>D. Springer</u>	MC-02.4.2/1, Personnel Qualification and Certification	Pritchett/REECo	08/24/92
	MC-02.4, Training & Qualification	Pritchett/REECo	02/14/92
	MC-02.4.3, Required Reading	Pritchett/REECo	06/26/92

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>D. Springer</u> (continued)	MC-02.4.5, Developing a Training Course	Pritchett/REECo	02/16/93
	MC-02.4.4, Classroom Training	Pritchett/REECo	02/16/93
	MC-02.4.1/2, YMP Indoctrination and Training	Pritchett/REECo	02/16/93
	REECo/YMP Controlled Document Center, Master Index Revision 52	M.D. Moulder/REECo	03/01/93
	REECo/YMP Management Control Procedures, Rev 34	M.D. Moulder/REECo	03/01/93
	YMP/91-35, Hazardous Materials Management and Handling Plan	YMP	7/1992
	Mandatory Training Matrix	Training Matrix Revision Task Group/REECo	4/1992
	AP-6.25, Operating Hazardous Waste Satellite Accumulation Areas	YMP	08/17/92
	YMP-FOI-5601, Yucca Mountain Personnel and Visitors Control Procedures	YMP	11/08/90
	YMP-FOI-4705, YMP Work Site and Area Access and Controls	YMP	11/08/91
	YMP-FOI-3001, 3001 Yucca Mountain Field Training Program	YMP	07/01/91
	General Employee Training, Environmental Requirements Training Program	YMP	9/1991
	General Employee Training, Safety and Health Indoctrination Handbook	YMP	N/a

G-13

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
D. Springer (continued)	Oscar C. Fogel, Training Matrix	C. Davenport/Computer Printout/ REECo	03/10/93
	Linda F. Singleton (Norris), Training Matrix	C. Davenport/Computer Printout/ REECo	03/10/93
	Emilio R. Skeete, Training Matrix	C. Davenport/Computer Printout/ REECo	03/10/93
	Clawson W. Ruth, Training Matrix	C. Davenport/Computer Printout/ REECo	03/10/93
	Construction Department Organizational Chart	S. Straub/REECo	03/09/93
	Drilling Department Organizational Chart	S. Straub/REECo	03/09/93
	Organizational Chart	REECo	10/1992
	D. J. Finney, Training History	Computer Generated Printout/ REECo Training Department (CGPO/RTD)	03/08/92
	M. L. Pochowski, Training History	CGPO/RTD	03/08/93
	C. J. Mason, Training History	CGPO/RTD	03/08/93
	G. F. Ewell, Training History	CGPO/RTD	03/08/93
	D. B. Dusdal, Training History	CGPO/RTD	03/08/93
	G. L. Daugherty, Training History	CGPO/RTD	03/08/93
	W. B. Beam, Training History	CGPO/RTD	03/08/93
	J. M. Arnold, Training History	CGPO/RTD	03/08/93

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
D. Springer (continued)	J. A. Carozzi, Training History	CGPO/RTD	03/08/93
	E. W. Kendall, Training History	CGPO/RTD	03/08/93
	H. W. Dickson, Training History	CGPO/RTD	03/08/93
	T. M. Leonard, Training History	CGPO/RTD	03/08/93
	F. E. Bingham, Training History	CGPO/RTD	03/08/93
	A. E. Bicker, Training History	CGPO/RTD	03/08/93
	A. H. Burlingame, Training History	CGPO/RTD	03/08/93
	T. M. Clifton, Training History	CGPO/RTD	03/08/93
	M. G. Kos, Training History	CGPO/RTD	03/08/93
	S. A. Babo, Training History	CGPO/RTD	03/08/93
	J. W. Harvey, Training History	CGPO/RTD	03/08/93
	J. V. DeLong, Training History	CGPO/RTD	03/08/93
	L. F. Singleton, Training History	CGPO/RTD	03/08/93
	B. F. Nichols, Training History	CGPO/RTD	03/08/93
	D. M. Fore, Training History	CGPO/RTD	03/08/93
	R. V. Cruise, Training History	CGPO/RTD	03/08/93
	D. A. Smith, Training History	CGPO/RTD	03/08/93
	J. P. Mecker, Training History	CGPO/RTD	03/08/93
	L. F. Saxon, Training History	CGPO/RTD	03/08/93

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>D. Springer</u> (continued)	D. B. Stipp, Training History	CGPO/RTD	03/08/93
	F. S. Velasquez, Training History	CGPO/RTD	03/08/93
	S. A. Wade, Training History	CGPO/RTD	03/08/93
	General Employee Training (GET) Notification for Past Due Personnel	S. Straub/REECo/Donahoe	02/23/93
	General Employee Radiological Training (GERT)	Gertz/DOE/Distribution (YMP:ECR-1911)	01/20/93
	Training Documentation Form	S. Straub/REECo	03/01/93
	Training Documentation Form	S. Straub/REECo	03/09/93
	Training Documentation Form	S. Straub/REECo	03/09/93
	Yucca Mountain Site Characterization Project (YMP) Training Attendance Records	McCarthy/T&MSS/Distribution (RAM:LGL:L93-021)	02/16/93
	YMP Training Attendance Records	McCarthy/T&MSS/Distribution (RAM:LGL:L93-027)	03/02/93
	Visitor Control	Visitor Control/Handbook at FOC	N/A
	General Employee Training Sign-up Sheet	B. Milsap/T&MSS Training Dept	02/16/93
	General Employee Training Sign-up Sheet	B. Milsap/T&MSS Training Dept	03/16/93
	YMP Training Attendance Record (General Employee Radiological Training)	J. Karasik/T&MSS Training Dept	03/02/93
	YMP Training Attendance Record - 1 ea. General Employee Radiological Training (GERT), General Employee Training (GET) 1.2, GET 1.3, GET 1.4	J. Anderson/T&MSS Training Dept	02/16/93

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>D. Springer</u> (continued)	YMP Training Attendance Record - 1 ea., GERT, GET 1.2, GET 1.3, GET 1.4	J. Karasik/T&MSS Training Dept	02/05/93
	General Employee Training Notification	C. Graci/REECO/D. Stupp	12/02/92
	General Employee Training 1.5 Refresher Exam Notification	C. Mason/REECO/Distribution/REECO	01/01/93
	General Employee Training Notification of Annual Refresher Training for the Month of April	S. Straub/REECO/Distribution	03/09/93
	General Employee Training Notification of Annual Refresher Training for the Month of February	S. Straub/REECO/Distribution	01/14/93
	Follow-up Notification of Scheduled Training	C. Graci/REECO/B. Williams	10/30/92
	Last Day for Training	Enclosure from T&MSS Notification of 30-60-90 Day - Per Connie Barker/REECO	03/01/93
	Request for Matrix Support Services	T. Leonard/D. Sharpe/R. Pritchett	02/11/93
	Waste Management for Generator (Class)	Computer Generated Printout from C. Graci/REECO	02/05/93
	General Employee Training Completion Status Report (pages 1-9)	Report generated for Tracking Status/T&MSS Training Dept	03/03/93
	General Employee Training (Internal Tracking Tool) Company Private	Computer Generated Printout/ T&MSS Training Dept	02/09/93
	General Employee Training 1.5 Update to REECO Training Representative (10 pages)	Computer Generated Printout/ T&MSS Training Dept	03/01/93

G-17

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>D. Springer</u> (continued)	Yucca Mountain Project Division Employee Roster by Cost Center (7 pages)	YMP/REEC Co Employee Roster	03/08/93
	NV-18 Form	REEC Co Record of REEC Co NV Training	12/90
	RADSTAR Training Codes (5 pages)	Coding key to Computer Training/ Tracking Information Data Base (REEC Co Training Dept)	N/A
	REEC Co Training Record, Adv. Safety Train. Supervisor, Pgs 47, 308, 423, 1231, 1248, 1263, 1289, 1304	Computer Generated Printout/ REEC Co Training Dept (CGPO/RTD)	03/05/93
	REEC Co Training Record, Air Purifying Respirator Training, Pgs 278, 301, 303, 421, 1230, 1246, 1286, 1301	CGPO/RTD	03/05/93
	REEC Co Training Record, AP Respirator Supervisor Training, Pgs. 344, 1227, 1319	CGPO/RTD	03/05/93
	REEC Co Training Record, Asbestos Awareness, Page 299	CGPO/RTD	03/05/93
	REEC Co Training Record, Asbestos Inspector (Pgs 300, 1284)	CGPO/RTD	03/05/93
	REEC Co Training Record, Asbestos Management/Planned (Pgs 301, 1285)	CGPO/RTD	03/05/93
	REEC Co Training Record, Asbestos Supervisor/Contractor (Pgs. 307, 1288, 1303)	CGPO/RTD	03/05/93
	REEC Co Training Record, Basic Safety Training Supervisor, (Pgs. 48, 270, 280, 309, 424, 1232, 1249, 1264, 1290, 1305)	CGPO/RTD	03/05/93

G-18

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>D. Springer</u> (continued)	REECO Training Record, CP Hard Core Group, (Pgs. 285, 317, 1309)	CGPO/RTD	03/05/93
	REECO Training Record, Desert Tortoise Training, (Pgs. 271, 281, 310, 311, 312, 425, 782, 1233, 1250, 1265, 1291, 1306)	CGPO/RTD	03/05/93
	REECO Training Record, Emergency Response Training, (Pgs. 49, 283, 313, 426, 1307)	CGPO/RTD	03/05/93
	REECO Training Record, Fork Lift Operators Course (Pg. 314)	CGPO/RTD	03/05/93
	REECO Training Record, FOS/Fire Fighter (Pg. 427)	CGPO/RTD	03/05/93
	REECO Training Record, General Employee Radiological Training (Pgs. 279, 305, 422, 1247, 1262)	CGPO/RTD	03/05/93
	REECO Training Record, Haz-Com: Chemical Safety (Pgs. 329, 1239)	CGPO/RTD	03/05/93
	REECO Training Record, Haz-Com: Controlling Hazards (Pg. 436)	CGPO/RTD	03/05/93
	REECO Training Record, Haz-Com: Exposure Limits (Pgs. 434, 1255)	CGPO/RTD	03/05/93
	REECO Training Record, Haz-Com: Health Haz/Garcin (Pgs. 326, 1254, 1313, 1314)	CGPO/RTD	03/05/93
	REECO Training Record, Haz-Com: Interpreting Labels (Pgs. 328, 435)	CGPO/RTD	03/05/93
	REECO Training Record, Haz-Com: Need to Know (Pgs. 334, 433, 437, 1224, 1238, 1268, 1269, 1296)	CGPO/RTD	03/05/93

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
D. Springer (continued)	REECO Training Record, Haz-Com: Physical Haz/ Chem., (Pg. 330)	CGPO/RTD	03/05/93
	REECO Training Record, Haz-Com: Physical Haz/ Explos., (Pgs. 327, 333)	CGPO/RTD	03/05/93
	REECO Training Record, Hazard Communication - Extended (Pg. 336)	CGPO/RTD	03/05/93
	REECO Training Record, Hazard Communication Refresher, (Pgs. 52, 274, 291, 1225)	CGPO/RTD	03/05/93
	REECO Training Record, Hazard Communication Standard (Pgs. 290, 331, 332, 335)	CGPO/RTD	03/05/93
	REECO Training Record, Hazard Recognition (Pgs. 51, 273, 288, 322, 323, 324, 431, 1223, 1236, 1253, 1267, 1294, 1311)	CGPO/RTD	03/05/93
	REECO Training Record, Haz Waste Site General Worker (Pgs. 289, 325, 432, 1237, 1295, 1312)	CGPO/RTD	03/05/93
	REECO Training Record, Hearing Conservation (Pgs. 50, 272, 286, 287, 318, 319, 320, 429, 430, 1235, 1252, 1266, 1293, 1310)	CGPO/RTD	03/05/93
	REECO Training Record, Health Protection Technician (Pg. 321)	CGPO/RTD	03/05/93
	REECO Training Record, Intro to NVO 325-NTS WAC (Pgs. 275, 340, 341, 347, 439, 1240, 1256)	CGPO/RTD	03/05/93
	REECO Training Record, Mine Rescue/SCBA Init. Trng (Pgs. 53, 292, 338, 438, 1316)	CGPO/RTD	03/05/93

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
D. Springer (continued)	REECo Training Record, Mine Rescue/SCBA Refresher (Pg. 293)	CGPO/RTD	03/05/93
	REECo Training Record, Mine Rescue Team/Adv. Refresher (Pgs. 337, 1315)	CGPO/RTD	03/05/93
	REECo Training Record, Mine Rescue/SCBA Refresher (Pg. 339)	CGPO/RTD	03/05/93
	REECo Training Record, SCBA Open Circuit (Pgs. 345, 443, 1320)	CGPO/RTD	03/25/93
	REECo Training Record, Safety/Security Briefing (Pgs. 55, 207, 295, 346, 444, 1228, 1242, 1258, 1271, 1298, 1321)	CGPO/RTD	03/05/93
	REECo Training Record, Tag and Lockout for Managers (Pgs. 56, 296, 1229)	CGPO/RTD	03/05/93
	REECo Training Record, Tag and Lockout (Pgs. 347, 445, 1243, 1259, 1322)	CGPO/RTD	03/05/93
	REECo Training Record, Underground Worker's Safety Training (Pgs. 297, 348, 349, 446, 447, 1244, 1260, 1299, 1323)	CGPO/RTD	03/05/93
	REECo Training Record, Waste Management for Generator (Pgs. 298, 350, 1245, 1261, 1300, 1324)	CGPO/RTD	03/05/93
	REECo/Project Support and Documentation Office Roster	Computer Generated Roster for Internal tracking/T&MSS-ECPD	N/A
	RADSTAR Training Report, Waste Management for Generator (Pages 1-8)	CGPO/RTD, Active Personnel Roster	03/12/93

G-21

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
D. Springer (continued)	RADSTAR Training Report, Inactive Pers: Archives Data Waste Management for Generator (3 pages including FAX Coversheet)	CGPO/RTD, inactive Personnel Roster	03/12/93
	Audit Plan	Audit Team Leader/T&MSS-ECPD	03/01/93
	Audit Checklist	Audit Team Leader/T&MSS-ECPD	03/01/93
	Master List of Controlled Documents	Document Control Center/T&MSS	01/15/93
	AP-5.46, Environmental Compliance and Surveillance of Yucca Mountain Site characterization Project Activities	YMP	08/14/92
	YMP/92-2, Rev. 0, Environmental Regulatory Compliance Plan	YMP	08/12/92
	YMP/91-27, Rev. 0, Training Management Plan	YMP	07/21/92
	Waste Management for Generator, Lesson Plan (Rev 1)	REECo Education & Training Dept	12/15/92
	Waste Management for Generator Course Handout	REECo Environmental Training Dept	N/A
	YMP/88-2, Rev. 2, YMP Project Management Plan	YMP	8/90
	Materials Reporting and Handling Plan, Policies and Directives, Revision 3	REECo	5/1/92
	REECo Training Record, NVO-325 (Pg. 1317)	CGPO/RTD	03/05/93
	REECo Training Record, OSHA 1910, General Compliance (Pgs. 54, 276, 294, 343, 440, 1226, 1241, 1257, 1270, 1297, 1318)	CGPO/RTD	03/05/93
	REECo Training Record, Powder Actuated Tool Training 350 (Pgs. 441, 442)	CGPO/RTD	03/05/93

G-22

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>D. Springer</u> (continued)	REECo Training Record, Radiation Protection Tech. Trn (Pgs. 304, 306)	CGPO/RTD	03/05/93
	REECo Training Record, Radiation Worker (Pgs. 46, 269, 1287, 1302)	CGPO/RTD	03/05/93
	REECo Training Record, Respirator Fit Testing (Pgs 284, 315, 316, 428, 1234, 1251, 1292, 1308)	CGPO/RTD	03/05/93
	MDT-137 FAX Instructor Sign-off Sheet for Waste Management for Generator Lesson Plan	Cindy Datto/REECo	12/15/92
<u>K. Jensen</u>	29 CFR 1910.1200, Hazard Communication	OSHA	1990
	Haz. Com Reports 1-10, Haz Com Training	Howell Training Company	---
	Table of Contents, REECo ES&H Hazard Communication Train-the-Trainer	REECo	06/15/92
	REECo CP 1.8.14, Revision 1, Hazard Communication Program	REECo	---
	REECo CP 1.8.14, Revision 2: Hazard Communication Program	REECo	10/31/92
	AP-6.27, Waste Assessment	YMPO	02/08/93
	DOE Order 5400.1, Change 1	DOE	06/29/90
	REECo CP 3.2.51, Hazardous Material Control	REECo	8/7/91
	REECo CP 4.2.1, Hazardous Waste Management for the NTS	REECo	09/18/91

G-23

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>K. Jensen</u> (continued)	Safety and Health Committee Program, REECo CP 1.8.21, Rev. 2	REECo	02/01/93
	Management of Hazardous Material and Hazard Wastes, US DOE-SOP (NTS)-5409)	DOE	06/15/89
	AP 6.13, Authorization for the Use of Regulated Hazardous Substances and Materials	YMPO	10/19/90
	AP 6.25, Operating Hazardous Waste Satellite Accumulation Areas	YMPO	08/17/92
	YMP Hazardous Materials Management & Handling Plan	YMPO	July 1992
	REECo Materials Reporting & Handling Plan, Rev. 3	REECo	May 1992
	Request for Authorization to Use Regulated Materials, T&MSS-91-01 through T&MSS-91-09	REECo	01/07/91
	Request for Authorization to Use Regulated Materials, T&MSS-91-17	REECo	03/25/91
	Request for Authorization to Use Regulated Materials, T&MSS-91-18	REECo	08/22/91
	Request for Authorization to Use Regulated Materials, T&MSS-91-19	REECo	08/21/91
	Request for Authorization to Use Regulated Materials, T&MSS-92-21	REECo	01/13/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-25	REECo	01/13/92

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
K. Jensen (continued)	Request for Authorization to Use Regulated Materials, T&MSS-92-26	RIECCo	01/13/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-27	RIECCo	01/13/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-29	RIECCo	04/08/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-30 through T&MSS-92-38	RIECCo	04/07/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-39 through T&MSS-92-41	RIECCo	04/21/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-42	RIECCo	04/21/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-42A	RIECCo	04/28/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-43 through T&MSS-92-45	RIECCo	05/19/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-46	RIECCo	06/19/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-47 through T&MSS-92-49	RIECCo	06/19/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-55	RIECCo	09/22/92
	Request for Authorization to Use Regulated Materials, T&MSS-92-56 through T&MSS-92-59	RIECCo	09/18/92

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>K. Jensen</u> (continued)	Wastestream Identification Numbers and Log	Kent Wutz/T&MSS ECPD	03/01/93
	Uniform Hazardous Waste Manifest LAA 3102443. RE-01-D008-92-07(01), RE-01-D008-92-07(02)	Kent Wutz/T&MSS-ECPD	01/13/93
	Uniform Hazardous Waste Manifest LAA 3102444 Acrylic Bonding Polymer - No SAA	Kent Wutz/T&MSS ECPD	01/13/92
	Uniform Hazardous Waste Manifest 00096228 RE-01-F003-92-05(01)	Kent Wutz/T&MSS-ECPD	01/13/93
	Uniform Hazardous Waste Manifest LAA 3034546 RE-01-D008-92-01, RE-01-U210-92-02	Kent Wutz/T&MSS ECPD	07/08/92
	REECo Letter from Pritchett to Geitz on Declaration of Hazardous Wastes at REECo SAAs	R F Pritchett/REECo/YMP TPO	04/27/92
	AP-6.25, Establishing & Operating SAAs, Attachment 1 Hazardous Wastestream Identification	Kent Wutz/T&MSS-ECPD	...
	REECo YMP Division SAA Weekly Inspection Format	W.C. Roberts/REECo	07/06/92
	REECo YMP Division SAA Weekly Inspection Format	W.C. Roberts/REECo	07/16/92
	REECo YMP Division SAA Weekly Inspection Format Toluene	W.C. Roberts/REECo	07/06/92
	REECo YMP Division SAA Weekly Inspection Format Toluene	W.C. Roberts/REECo	07/16/92
	REECo YMP Division SAA Weekly Inspection Format Toluene	W.C. Roberts/REECo	07/23/92
	REECo YMP Division SAA Weekly Inspection Format Toluene	W.C. Roberts/REECo	07/30/92

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
K. Jensen (continued)	REECo YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	08/06/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	08/13/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	08/28/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	09/03/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	09/08/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	09/17/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	09/17/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	10/01/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	10/08/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	10/15/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	10/22/92
	REECO YMP Division SAA Weekly Inspection Format - Toluene	W.C. Roberts/REECo	10/29/92

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
K. Jensen (continued)	REECo YMP Division SAA Weekly Inspection Format - Toluene	W C Roberts/REECo	11/05/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W C Roberts/REECo	11/13/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W C Roberts/REECo	11/20/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W C Roberts/REECo	11/25/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W C Roberts/REECo	12/04/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W C Roberts/REECo	12/10/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W C Roberts/REECo	12/17/92
	REECo YMP Division SAA Weekly Inspection Format - Toluene	W C Roberts/REECo	01/08/93
	REECo YMP Division SAA Weekly Inspection Format, Hazardous Waste Aerosol Cans	W C Roberts/REECo	01/15/93
	REECo YMP Division SAA Weekly Inspection Format, Hazardous Waste Aerosol Cans	W C Roberts/REECo	01/22/93
	REECo YMP Division SAA Weekly Inspection Format, Hazardous Waste Aerosol Cans	W C Roberts/REECo	01/29/93
	REECo YMP Division SAA Weekly Inspection Format, Hazardous Waste Aerosol Cans	W C Roberts/REECo	02/04/93

G-28

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>K. Jensen</u> (continued)	REECO YMP Division SAA Weekly Inspection Format, Hazardous Waste Aerosol Cans	Dan Mettler/REECo	02/11/93
	REECO YMP Division SAA Weekly Inspection Format, Hazardous Waste Aerosol Cans	W. C. Roberts/REECo	02/18/93
	REECO YMP Division SAA Weekly Inspection Format, Hazardous Waste Aerosol Cans	W. C. Roberts/REECo	02/26/93
	REECO YMP Division SAA Weekly Inspection Format, Hazardous Waste Aerosol Cans	W. C. Roberts/REECo	03/04/93
	REECO Hazardous Waste Container Log for Subdock SAAs	W. C. Roberts/REECo	05/15/92 to 01/14/93
	REECO Hazardous Waste Stream Identification - Subdock	W. C. Roberts/REECo	
	Hazardous Material List - Subdock	Ricky Joyce/REECo	03/04/93
	Material Safety Data Sheets Index	W. C. Roberts/REECo	09/17/92
	MSDS: F-181 Bolt Anchor Sulfaset	Randustrial Corporation	08/01/87
	MSDS: Crater 2X Gear Oil	Texaco	12/05/90
	Hazardous Material List: LM-300	Ricky Joyce/REECo	03/09/93
	Hazardous Material List: NRG 3	Ricky Joyce/REECo	03/04/93
	Hazardous Material List: UZ-N62	Ricky Joyce/REECo	03/09/93
	REECO Memorandum: Guidelines for Completing Monthly Inventories	C. G. Postle thru E.P. Davis/REECo	07/16/92
	Hazardous Material List: J-13	Ron Johnson/REECo	---

G-29

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>K. Jensen</u> (continued)	Hazardous Material List for J-13 and Mechanic Trucks	Ron Johnson/REECo	10/11/92
	Hazardous Material List: Old Subdock and Work Trucks (Construction Dept)	John Allen/REECo	03/03/92
	Hazardous Material List: Storage Shed, Old Subdock @ NTS (Construction Dept)	John Allen/REECo	05/20/92
	MSDS: Super 77 Adhesive	JM/General Offices	04/10/86
	REECo Memorandum: Work Area Inventories for Hazardous Materials	D. L. Fraser/REECo	05/13/92
	Operations Equipment Department Weekly Inspection Requirements, Well J-13: RE-05-F003-93-02	Ron Johnson/REECo	03/01/93
	Hazardous Waste Container Log. LM-300	REECo	07/02/92
	Safety and Fire Protection Inspection Checklist: RE-7664	REECo	...
	REECo YMP Division SAA Weekly Inspection Format - 1,1,1-Trichloroethane	Rick Lee/REECo	07/14/92
	REECo YMP Division SAA Weekly Inspection Format - 1,1,1-Trichloroethane	Rick Lee/REECo	07/21/92
	REECo YMP Division SAA Weekly Inspection Format - Trichloroethane	Rick Lee/REECo	07/29/92
	REECo YMP Division SAA Weekly Inspection Format - 1,1,1-Trichloroethane	Rick Lee/REECo	08/05/92
	REECo YMP Division SAA Weekly Inspection Format - 1,1,1-Trichloroethane	Rick Lee/REECo	08/12/92

G-30

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>K. Jensen</u> (continued)	REECO YMP Division SAA Weekly Inspection Format - 1,1,1-Trichloroethane	Rick Lee/REECO	08/17/92
	REECO YMP Division SAA Weekly Inspection Format - 1,1,1-Trichloroethane	Rick Lee/REECO	08/27/92
	REECO YMP Division SAA Weekly Inspection Format - 1,1,1-Trichloroethane	Rick Lee/REECO	09/02/92
	REECO YMP Division SAA Weekly Inspection Format - Trichloroethane	Rick Lee/REECO	09/09/92
	REECO YMP Division SAA Weekly Inspection Format - Trichloroethane	Rick Lee/REECO	09/16/92
	REECO YMP Division SAA Weekly Inspection Format - Trichloroethane	Rick Lee/REECO	09/23/92
	REECO YMP Division SAA Weekly Inspection Format - Trichloroethane	Rick Lee/REECO	10/01/92
	REECO YMP Division SAA Weekly Inspection Format - Trichloroethane	Rick Lee/REECO	10/09/92
	REECO YMP Division SAA Weekly Inspection Format - Trichloroethane	Rick Lee/REECO	10/14/92
	REECO YMP Division SAA Weekly Inspection Format - 1,1,1-Trichloroethane	Rick Lee/REECO	10/26/92
	REECO YMP Division SAA Weekly Inspection Format - 1,1,1-Trichloroethane	Juan Sanchez/REECO	11/13/92
	REECO YMP Division SAA Weekly Inspection Format - 1,1,1-Trichloroethane	Juan Sanchez/REECO	11/20/92

G-31

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
K. Jensen (continued)	REECO YMP Division SAA Weekly Inspection Format 1,1,1-Trichloroethane	Juan Sanchez/REECO	12/04/92
	REECO YMP Division SAA Weekly Inspection Format 1,1,1-Trichloroethane	Juan Sanchez/REECO	12/18/92
	REECO YMP Division SAA Weekly Inspection Format 1,1,1-Trichloroethane	Juan Sanchez/REECO	01/08/93
	REECO YMP Division SAA Weekly Inspection Format 1,1,1-Trichloroethane	Juan Sanchez/REECO	01/15/93
	REECO YMP Division SAA Weekly Inspection Format 1,1,1-Trichloroethane	Juan Sanchez/REECO	01/22/93
	REECO YMP Division SAA Weekly Inspection Format 1,1,1-Trichloroethane	Juan Sanchez/REECO	01/29/93
	REECO YMP Division SAA Weekly Inspection Format 1,1,1-Trichloroethane	Juan Sanchez/REECO	02/05/93
	REECO YMP Division SAA Weekly Inspection Format 1,1,1-Trichloroethane	Juan Sanchez/REECO	02/12/93
	REECO YMP Division SAA Weekly Inspection Format 1,1,1-Trichloroethane	Juan Sanchez/REECO	02/26/93
	Letter from Edward McCann to Carl Gertz: Review of REECO Hazardous Materials Reporting and Handling Plan Per AP-6.13	Edward McCann/T&MSS /CPD	06/07/91
	Letter from Carl Gertz to Robert Pritchett, Materials Reporting and Handling Plan Per AP-6.13	Carl P. Gertz/YMPO	06/18/91

G-32

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>K. Jensen</u> (continued)	Letter from Edward McCann to Carl Gertz, Review of REECo MRHP Revision 1 and 2 per AP-6.13	Edward McCann/T&MS-ECPD	09/11/91
	Letter from Carl Gertz to Robert Pritchett, Approval of REECo MRHP, Revisions 1 and 2, per AP-6.13	Carl Gertz/YMPO	09/23/91
	Audit Plan for the Environmental Compliance Audit AP-5.46, Environmental Compliance Auditing and Surveillance of YMP activities	Sid Dodd/T&MSS-ECPD YMPO	March 1993 08/14/92
	Checklists for the Environmental Compliance Audit, RMM-140A, RMM-140B, RMM-140C-1	Sid Dodd and Kathy Jensen/ T&MSS-ECPD	...
	REECo Regulated Materials that are approved per AP-6.13, Checklist Attachment 1	Kathy Jensen/T&MSS-ECPD	03/93
	REECo Regulated Materials that are Non-Approved by the POCD for YMP Use, Checklist Attachment 2	Kathy Jensen/T&MSS-ECPD	03/17/93
	REECo Regulated Materials that are Verbally Approved for Use, Checklist Attachment 3	Kathy Jensen/T&MSS-ECPD	03/17/93
	Audit Logbook for Kathy Jensen	Sid Dodd/T&MSS-ECPD	...
	Verbal Authorization/Approval	Kent Wirtz/T&MSS-ECPD	11/20/92
<u>C. Robinson</u>	Air Quality Permit to Construct - 2693	State of Nevada/ Bureau of Air Quality (BAQ)/DOE	6/12/91
	Air Quality Permit to Construct - 2893	State of Nevada/BAQ/DOE	11/4/91
	Air Quality Permit to Construct - 3084	State of Nevada/BAQ/DOE	6/8/92
	Air Quality Permit to Construct - 3197	State of Nevada/BAQ/DOE	9/21/92

G-33

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
C. Robinson (continued)	Air Quality Permit to Construct - 3198	State of Nevada/BAQ/DOE	9/24/92
	Air Quality Permit to Construct - 3199	State of Nevada/BAQ/DOE	9/24/92
	Air Quality Permit to Construct - 3267	State of Nevada/BAQ/DOE	Rev 1 28-93
	Air Quality Permit to Construct - 3268	State of Nevada/BAQ/DOE	10/28/92
	Underground Injection Control Permit - NEV89031	State of Nevada/Dept. of Conservation and Natural Resources/DOE	5/14/92
	Waters of An Underground Source Permit 57375	State of Nevada/Dept. of Conservation and Natural Resources/DOE	10/23/92
	Permit to Appropriate the Public Waters of the State of Nevada - 57373	State of Nevada/Dept. of Conservation and Natural Resources/DOE	08/18/92
	Corrected Permit No. 57374 for the Waters of an Underground Source	State of Nevada/Dept. of Conservation and Natural Resources/DOE	10/2/92
	Permit to Appropriate the Public Waters of the State of Nevada - Change in Place of Use 57376	State of Nevada/Dept. of Conservation and Natural Resources/DOE	08/18/92
	Permit to Appropriate the Public Waters of the State of Nevada - 52338	State of Nevada/Dept. of Conservation and Natural Resources/DOE	04/09/92
	Temporary Permit No. 57326-T for the Waters of an Underground Source	State of Nevada/Dept. of Conservation and Natural Resources/DOE	04/13/91
	Waiver M/O-501 Drillhole UE-25 UZ16	State of Nevada/Dept. of Conservation and Natural Resources/DOE	10/24/91 12/7/92
	Free Use Permit - N56844	United States/Dept. of the Interior/DOE	01/07/93

G-34

LIST OF DOCUMENTS REVIEWED BY AUDIT TEAM

Auditor	Document Title/Description	Author/ Organization/Recipient	Document Date
<u>C. Robinson</u> (continued)	Free Use Permit N55574	United States/Dept. of the Interior/DOE	05/20/92
	Free Use Permit - N51530	United States/Dept. of the Interior/DOE	10/26/90
	Nationwide General Permit N26	Corps of Engineers/Dept. of Water Resources/DOE	07/17/90
	Audit Plan	S. Dodd/SAIC/C. Robinson	2/93
	Audit checklist	S. Dodd/SAIC/C. Robinson	2/93
	Audit Log Book	S. Dodd/SAIC/C. Robinson	2/93
	Environmental Management & Program Objective Criteria	U.S. DOE/Office of Env. Audit	N/A
	Right-of-Way Reservation 48602	State of Nev./BLM/DOE	10/10/89
	Right-of-Way Reservation 47748	State of Nev./BLM/DOE	01/13/88
	Biological Opinion	T&MSS/ECPD/SAIC/Fish & Wildlife Service	02/09/90
	Land Access & Environmental Compliance AP-8.1	YMP	08/07/91
	Environmental Compliance Auditing & Surveillance of Yucca Mountain Site Characterization Activities	YMP	07/12/91
	Ambient Air Monitoring Report and Associated Correspondence	U.S. DOE/U.S. DOE/State of Nevada, Department of Conservation and Natural Resources	2/16/93

G-35

NOTE: Permit reviews included all correspondence associated with each permit

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APPENDIX H1

REECO REGULATED MATERIALS THAT ARE
APPROVED PER AP-6.13

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RECO Regulated Materials that are
approved per AP-6.13

1. Diesel Fuel No. 2	T&MSS 91-01	Ultramar Refining
2. Prestone II Antifreeze/Coolant	T&MSS 91-02	First Brands Corporation
3. CITGO C-500 Motor Oil SAE 30	T&MSS 91-03	CITGO Petroleum Corporation
4. UNOCAL Guardol Motor Oil SAE15W/40	T&MSS 91-04	UNOCAL Refining and Marketing Division
5. UNOCAL MP Gear Lube LS 80W/90	T&MSS 91-05	UNOCAL
6. UNOCAL C-3 Fluid 10W ATF	T&MSS 91-06	UNOCAL
7. Chevron DuraLith Grease EP 2	T&MSS 91-07	Chevron Environmental Health Center
8. Witco Hydraulic R&O AW ISO 32	T&MSS 91-08	Kendall Refining Company
9. Unleaded Premium Gasoline	T&MSS 91-09	Gasco Gasoline, Inc.
10. Wagner Premium Brake Fluid H-110	T&MSS 91-17	Wagner Division- Cooper Industries
11. MOLUB-ALLOY 297 Rock Drill Oil	T&MSS 91-18	TRIBOL
12. 104 G Thread Sealant	T&MSS 91-19	Oil Center Research, Inc.
* 13. Sulfur Hexafluoride	T&MSS 92-21	Air Products and Chemicals
14. Nitrogen	T&MSS 92-25	Liquid Air Corporation
15. Suva Cold-MP	T&MSS 92-26	Du Pont Chemicals
16. Lithium Bromide, Anhydrous	T&MSS 92-27	Lithium Corp. of America
17. #200 Silver Streak Multi-Lube Light Grease	T&MSS 92-29	Schaeffer Mfg., Company
18. Oxygen	T&MSS 92-30	Liquid Air Corporation
19. PF Degreaser	T&MSS 92-31	P-T Technologies, Inc.
20. Siloo Starting Fluid	T&MSS 92-32	CRC Industries, Inc.
21. Permatex Engine Starting Fluid	T&MSS 92-32	Loctite Corporation
22. Multifak EP 2 Grease	T&MSS 92-33	Texaco Lubricants Co.
23. EP Lithium Grease NLG 1 Grade 2	T&MSS 92-34	Lubricating Specialties, Co.
24. LPS 1 Greaseless Lubricant	T&MSS 92-35	LPS Laboratories, Inc.
25. Weld-on Solvent Cement	T&MSS 92-36	IPS Corporation
26. Weld-on Primer	T&MSS 92-37	IPS Corporation
27. E.C.G. Marine Cleaning Compound	T&MSS 92-38	Goode Chemical Co., Inc.
28. Acetylene	T&MSS 92-39	Air Products and Chemicals
29. Hard Hat Primers and Topcoats	T&MSS 92-40	Rust-Oleum Corporation
30. Hard Hat Fluorescent Topcoats	T&MSS 92-40	Rust-Oleum Corporation
31. Hard Hat Silver Aluminum Coating	T&MSS 92-40	Rust-Oleum Corporation
32. Krylon Plum Safety Purple Spray Paint	T&MSS 92-41	Sherwin-Williams Company
33. Krylon American Beauty Red Spray Paint	T&MSS 92-41	Sherwin-Williams Company
34. Krylon Bright Silver Spray Paint	T&MSS 92-41	Sherwin-Williams Company
35. Krylon High Heat Red Aerosol Spray Paint	T&MSS 92-41	Sherwin-Williams Company
36. Propane	T&MSS 92-42	Proflame, Inc.
37. Dry-moly Lube 955 aerosol Spray Lubricant	T&MSS 92-42A	Chemical Packaging Corporation

* Circled materials are not in the MRHP.

* 38. Hi-Tech Gloss Red Aerosol Paint	T&MSS 92-43	Seymour of Sycamore.Inc.
39. Hi-Tech Gloss Yellow Aerosol Paint	T&MSS 92-43	Seymour of Sycamore.Inc.
40. Hi-Tech Gloss Black Aerosol Paint	T&MSS 92-43	Seymour of Sycamore.Inc.
41. SDI Organosilicone Fluid Emulsion	T&MSS 92-44	Baroid Drilling fluids. Inc.
42. R.D.O. 302 ES. Nonhazardous Rock Drill Oil	T&MSS 92-45	Control Chemical Corporation
43. Iredyne Non-Nitroglycerin Dynamites and Blasting Agents	T&MSS 92-46	Ireco Incorporated
44. Hercudet Commercial Detonator Caps	T&MSS 92-47	Ireco Incorporated
45. Primacord Detonating Cord	T&MSS 92-48	The Ensign-Bickford Co.
46. Primadet Nonelectric Detonators	T&MSS 92-49	The Ensign-Bickford Co.
47. Permabond 910 Adhesive	T&MSS 92-55	National Starch and Chemical Company
48. Monobath	T&MSS 92-56	
49. All Natural Cleaner/Degreaser	T&MSS 92-57	Rust-Oleum Corp.
50. LPS Heavy-Duty Silicone Lubricant	T&MSS 92-58	LPS Laboratories. Inc.
51. 201 ES Tool Joint Compound	T&MSS 92-59	Oil Center Research. Inc.

* Circled materials are not in the MRHP.

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Andy Igge

VERBAL AUTHORIZATION
APPROVAL

11/22/92

Andy Igge -

Small Rig - steel mtg. - someone might slip
some part - non skid - he wants to
use. I told him ok, gave an
authorization for other items.
He will provide RFA - later.

A. O. White

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RECo Regulated Materials that are
Verbally Approved for YMP Use:

3-36 (Aerosol)
F-181 Bolt Anchor Selfset
Magnaglo Prepared Bath
Firm Foot Aerosol
CRC Natural Degreaser
Kerosene

CRC Chemicals
Randustrial Corporation
Magnaflux
Forrest Paint Company
CRC Chemicals

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APPENDIX H4

REECO REGULATED MATERIALS THAT ARE
NON-APPROVED BY THE POCD FOR YMP USE

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**REECO Regulated Materials that are
Non-Approved by the POCD for YMP Use:**

Subdock:

Automatic Torque Fluid C-2 (5 gallons)	Texaco
Gear Lube - EL90 (120 pounds)	Agway
Gear Shield Lubriplate 15106 (6 pounds)	Fiske Brothers Refining
Grease - Chevron Heavy Duty 2 (bulk)	Haycock Distributing Co.
Grease - Crater 2X (Bulk-35lbs.)	Texaco
Lithium Chloride [(anhydrous): (8 drums)]	Lithium Corp. of America
Lubricant - Dri-Mol 1050 (35 Spray Cans)	ARKA Labs
Oil - Mineral Oil ((SAE 50): (10 gallons))	Texaco
Rock Drill Oil Mobil Fluid 300 (1 drum)	Mobil Oil Corporation
W-16 All Purpose Fluid (2 gallons)	Martin Decker
W-60 Gypsum Cement (140 sacks)	US Gypsum Company

LM-300-REECO Maintenance Truck:

Thread Sealing Lubricating Compound	Bakerseal
Long-life Grease	
Anti-Seize Compound	Caterpillar
High Tack Adhesive Sealant	Permatex
Cooling System Treatment	

NRG-3:

Inverted Tip Marker	Seymour
7165 Safety Red Marking Paint	Krylon
Quick-Start Starting Fluid	Quick Start Products, Ltd.

Exploratory Studies Facility-Construction Department:

Siloo Ice-Off	Siloo
7165 Safety Red Marking Paint (68 cans)	Krylon
3M Spray Adhesive, Super 77	General Offices/3M
Fluorescent Red Spray Paint	Aerovoc

J-13--Site and Maintenance Trucks:

High Tech Adhesive Sealant
Fluid Spray Sealer
Aircraft Hydraulic Oil 15
Trans X
Soot Remover
ATF
McKay 7018 XLM
Aervoe Silicone Spray
Delcing-Defrosting Fluid
CitriKleen HD
Battery Cleaner & Acid Neat
Krylon Paint
Blue RTV Silicone
CAT #7M7260 Liquid Gasket
Fuel Supplement
77 Spray Cement
CAT #5H2471 Cement
CAT Anti-Seize
732 Multipurpose Sealant
Lubriplate 930
Lubriplate 105
Cool Tool II
Liquid Wrench
Marvel Mystery Oil
Weather Strip Adhesive
Propane Fuel
Starting Fluid Spray
Sta-Lube Hydraulic Jack Oil
Loctite Threadlocker
Cold Shot R-12
Starting Fluid Cylinders
Copper Coat
Grease Gun Grease
Scotch Brand 1602 V-Spray

Permatex
3M
Texaco
K & W
Meeco Manufacturing
Chevron
Teledyne McKay Corp
Pacific Corp
LHB Industries
Penetone Corp
TRW
Borden Inc.
Bowman Distributors
Caterpillar
PSP Inc.
3M
Caterpillar
Caterpillar
DOW Corning
Lubriplate
Lubriplate
Monroe
Solder Seal
Marvel
Permatex
Medina
Permatex
Sta-Lube
Loctite
Solder Seal
Permatex
K & W
Citgo
3M

ADDIT REPORT FY93A ACROWTDS

AP	Administrative Procedure
APH	Assistant Project Manager
ASL	Activity and Site Listings
BLM	Bureau of Land Management
BMPF	Best Management Practice Firding
CF	Compliance Finding
CFR	Code of Federal Regulations
CP	Company Procedure
DOE	U.S. Department of Energy
ECPD	Environmental Compliance and Permitting Department
EPP	Environmental, Safety and Health Protection Program for U.S.
EZA	Department of Energy Operations
ESF	Environmental Safety and Health Appraisal
ETA	Exploratory Studies Facility
	Environmental Training Program
FOC	Field Operations Center
GET	General Employee Training
HAC	Hazard Communication
HMC	Hazardous Materials Coordinator
HMOED	Hazardous Materials Management and Handling Plan
MC	Management Control (procedure)
MCA	Environmental Management-Culture and Attitude
MOT	Environmental Management-Staff Development and Training
MIC	Environmental Management-Internal Communications
MREP	Materials Reporting and Handling Plan
MDS	Material Safety Data Sheet
N/A	Not Applicable
NAC	Nevada Administrative Code
NDEP	Nevada Division of Environmental Protection
NYP	Noteworthy Practice Finding
NTS	Nevada Test Site
PAC	Permit Agreement Compliance
POCD	Project and Operations Control Division
PM	Project Manager
RAP	Reporting and Processing of Operations Information
RCRA	Resource Conservation and Recovery Act
REC	Resolutions of Environment, Safety and Health Concerns
RECO	Reynolds Electrical and Engineering Co., Inc.
RFA	Request for Authorization
RM	Regulated Materials Management
RMS	Request for Matrix Support Services (form)
SAIC	Science Applications International Corporation
SAA	Satellite Accumulation Area
SM	Site Manager
TMS	Technical and Management Support Services
TPO	Technical Project Officer
USAF	United States Air Force
USFWS	United States Fish and Wildlife Service
WAM	Waste Minimization
YMP	Yucca Mountain Site Characterization Project
YMPO	Yucca Mountain Site Characterization Project Office
YMSO	Yucca Mountain Site Office

DRAFT

**SCHEDULE OF POST-AUDIT ACTIVITIES REMAINING
AFTER POCD APPROVES AUDIT REPORT**

<u>Post-Audit Activity</u>	<u>Action By</u>	<u>Date(s)</u>
Issue Audit Report		POCD May 13
Develop Corrective Action Plan	REEC _o	May 13-June 11
Approve Corrective Action Plan	POCD	June 14-18
Implement Corrective Action Plan	REEC _o	June 21-July 6
Verify Corrective Action Plan	T&MSS	July 7-9
Close Audit	POCD	July 12

ENCLOSURE 2

01/20/2025