



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

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TO: John J. Linehan, Director, HLPD  
Division of High-Level Waste Management, M/S 4-H-3

FROM: Paul T. Prestholt, Sr. On-Site Licensing Representative

DATE: January 4, 1990

SUBJECT: WEEKLY ACTIVITY REPORT, PROTOTYPE TESTING (2)

Please find enclosed the above-referenced reports received in this office, i.e., week ending December 3, 1989 and December 17, 1989.

We will forward the week ending December 10, 1989 when it is received. Apparently this report was inadvertently left out of the mailing to this office.

PTP:nan  
Enclosure

cc: Carl Johnson  
Agency for Nuclear Projects  
Nuclear Waste Project Office  
Capitol Complex  
Carson City, Nevada 89710

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WEEKLY ACTIVITY REPORT  
PROTOTYPE TESTING  
Week Ending - December 3, 1989

Participants:

Los Alamos - Manage and Integrate Prototype Testing and conduct tests.

Sandia National Laboratories - Manage the operations at G-Tunnel and perform tests.

U. S. Geological Survey (U. S. Bureau of Reclamation, and Lawrence Berkeley Laboratory) - Perform tests.

Lawrence Livermore National Laboratory - Perform tests.

Holmes and Narver - Provide surveying and other support.

Fenix and Scisson of Nevada - Provide plans, test networks, and cost estimates.

REECo - Provide mining equipment, perform drilling and mining, and provide support labor.

Pan Am - Provide photographic support.

Key Prototype Activities for the Reporting Period:

USGS

**Blast Effects:**

Due to USGS travel restrictions, there was no work accomplished on this test during this reporting period.

**Excavation Effects:**

Due to USGS travel restrictions, there was no work accomplished on this test during this reporting period.

**In Situ Stress:**

Blast Alcove-U12G-#D - This hole is located 19 feet from the start of the blast alcove on the left rib. USGS personnel logged this hole using a borehole TV camera, and obtained dillatometer measurements.

SNL

**G-Tunnel Drifting:**

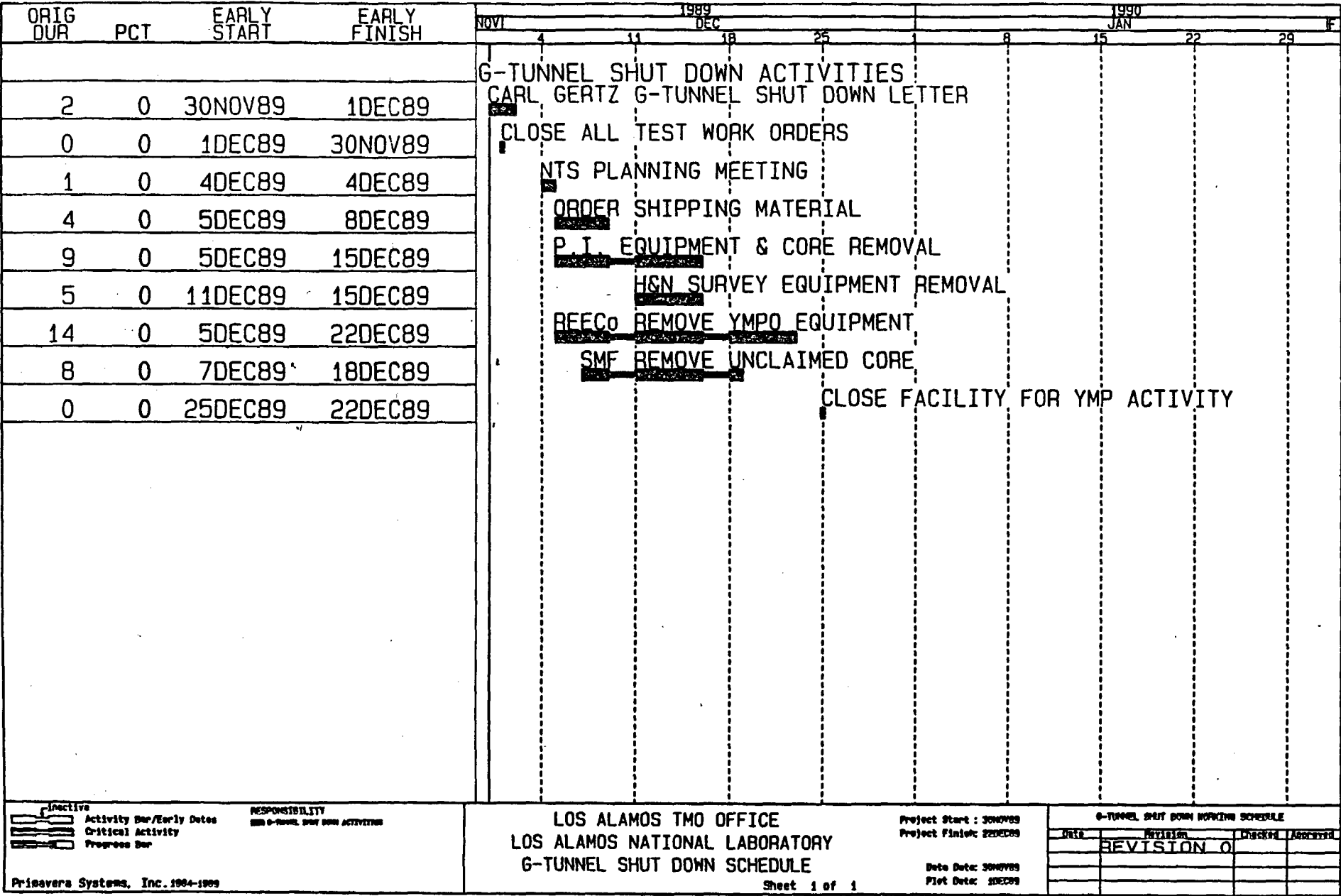
Stubb Drift - This drift is located 7 feet from the beginning of the Demo Drift on the right rib. Sixty-two 1 1/8 inch diameter blast holes were loaded and blasted, 20 perimeter holes and 42 blast holes. 260 pounds of Iredyne (Ireco) powder was used, and the blast was initiated using non-el millisecond delays. Loading density for the holes was 48 pounds/foot. The round pulled 7 feet. Total depth for the Stubb Drift is 39 feet from the centerline of the Demo Drift.

General Comments:

1. REECO personnel are continuing clean up of the yard for an environmental inspection.
2. This will be the final weekly activity report for G-Tunnel Prototype Testing due to the shutdown of G-Tunnel. Activity reports will now concentrate upon G-Tunnel shutdown.

EXPENDITURES:

|  | Work Days Remain |              | Expenditures | % |
|--|------------------|--------------|--------------|---|
| .Prototype Testing:                    | 210              |              |              |   |
| .REECO: Current Week-Prototype Testing | \$ 5,513         | Year to Date | \$114,723    |   |
| Current Week-G-Tunnel Operation        | \$ 16,485        | Year to Date | \$291,533    |   |
| Current Week-G-Tunnel Closeout         | \$ 6,595         | Year to Date | \$ 6,595     |   |
| .H&N: Current Week-Prototype Testing   | \$ 5,926         | Year to Date | \$ 18,127    |   |
| .F&S: Current Week-Prototype Testing   | \$ 2,484         | Year to Date | \$ 32,614    |   |



Primavera Systems, Inc. 1984-1989

Sheet 1 of 1

WEEKLY ACTIVITY REPORT  
PROTOTYPE TESTING  
Week Ending - December 17, 1989

Participants:

Los Alamos - Manage and Integrate Prototype Testing and conduct tests.

Sandia National Laboratories - Manage the operations at G-Tunnel and perform tests.

U. S. Geological Survey (U. S. Bureau of Reclamation, and Lawrence Berkeley Laboratory) - Perform tests.

Lawrence Livermore National Laboratory - Perform tests.

Holmes and Narver - Provide surveying and other support.

Fenix and Scisson of Nevada - Provide plans, test networks, and cost estimates.

REEC Co - Provide mining equipment, perform drilling and mining, and provide support labor.

Pan Am - Provide photographic support.

Shutdown Activities for this Reporting Period:

USGS

USGS personnel completed the removal of their equipment from G-Tunnel, and have transported it to Mercury for further shipment to USGS/Denver. The USGS trailer was also removed.

LANL

LANL personnel will be at G-Tunnel December 18, 1989, to remove their testing equipment.

LLNL

LLNL personnel completed the removal of their equipment from G-Tunnel. They loaded the equipment into the LLNL trailer which was transported to Mercury. LLNL core was sent to Area 25 subdock for temporary storage.

SNL

SNL completed the removal of their equipment and materials. The 2 meter chain saw was shipped to Area 25 subdock along with the Bally building and the thermal stress insulation for temporary storage. All other SNL equipment has been stored in the blue bunker at G-Tunnel and in a bunker at Area 6.

### YMP Equipment

The following items have been shipped to Area 25 subdock for storage:

- 2 - Diamec drills with hydraulic units
  - 3 - Dust collectors with attachments
  - 3 - Water separators with attachments
  - 11 - 12-inch core barrels
  - 6 - 10-inch core barrels
    - Longyear 38 hydraulic drill
  - 2 - 100 horsepower axivane fans with starters and silencers
- All YMP drill bits and accessories. (11 - 10 inch core bits,  
3 - 3/4-inch drill bits, and accessories were sent to  
USGS/Denver)

### G-Tunnel Prototype Testing Area

#### Experiment Drift:

Everything is removed from the Experiment drift except for the prototype diffusion test equipment.

#### Demo Drift:

Desks, chairs, sawhorses, plywood, trash, etc., need to be removed from the Demo Drift.

#### U12G-12 Drift Extension:

USGS has removed the rest of their equipment. This drift is 90% clean.

#### LLNL Alcove:

This drift is clean except for the removal of instrumentation wires.

#### Laser Drift:

This drift is clean except for a little trash and some SNL 6 inch core.

#### Puff and Tuff:

This drift is clean.

#### CFE Drifts:

These drifts have not been cleaned as yet.

### G-Tunnel Walk-through:

The walk-through is still scheduled for December 19, 1989. A memo to that effect has been distributed (Attachment II).

EXPENDITURES:

|   | Work Days Remain <u>197</u> | Expended <u>23</u> %   |
|---|-----------------------------|------------------------|
| .REECO: Current Week-Prototype Testing  | \$ 0                        | Year to Date \$114,915 |
| .REECO: Current Week-G-Tunnel Closeout  | \$ 44,216                   | Year to Date \$ 90,594 |
| .REECO: Current Week-G-Tunnel Operation | \$ 17,893                   | Year to Date \$309,906 |
| .H&N: Current Week-Prototype Testing    | \$ *                        | Year to Date \$ *      |
| .F&S: Current Week-Prototype Testing    | \$ *                        | Year to Date \$ *      |

\* This information not available at the time of this report.

## memorandum

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December 12, 1989  
702/794-7094  
FTS/544-7094  
M/S 527

To: Distribution

From: H. Kalia, LANL *(CML) for H. Kalia*

Subject: WALK-THROUGH OF G-TUNNEL

A walk-through is scheduled for 8:30 a.m., December 19, 1989. This walk-through is needed to check the progress of the removal of equipment and materials from G-Tunnel, determine that the cleanup is proceeding on schedule, and to the Nevada Test Site Office's (NTSO) satisfaction.

Requested attendees are: A. Girdley, DOE/YMPO; W. Wilson, DOE/YMPO; A. Veloso, DOE/NTSO; J. Talbutt, SNL; L. Atkinson, REECO; and S. Francis, LANL. Personnel are to meet at the G-Tunnel/SNL office December 19, 1989, at 8:30 a.m. to begin the walk-through.

Any questions should be addressed to S. Francis, FTS 544-7272 or 575-4226.

HNK:SDF:kq60

### Distribution:

A. Girdley, DOE/YMP, MS 523  
W. Wilson, DOE/YMP, MS 523  
A. Veloso, DOE/NTSO, MS 701  
J. Talbutt, SNL/NTS, MS 944  
L. Atkinson, REECO, MS 145  
S. Francis, LANL, MEE-4/LV, MS 527

Cy: U. Clanton, DOE/YMP, MS 523  
R. Bullock, FSN, MS 403  
J. Calovini, H&N, MS 519  
L. Jardine, LLNL, P.O. Box 808, Livermore, CA 94550  
A. Ramirez, LLNL, P.O. Box 808, Livermore, CA 94551  
B. Edwards, REECO, MS 140  
R. Pritchett, REECO, MS 408  
R. Dye, SNL/NTS, MS 944  
T. Blejwas, SNL, Box 5800, Albuquerque, NM 87185  
T. Hunter, SNL, Box 5800, Albuquerque, NM 87185  
R. Craig, USGS, MS 509  
L. Hayes, USGS, P.O. Box 25046, Denver, CO 80225  
R. Herbst, LANL, EES-13, MS J521  
W. Morris, LANL, EES-1, MS D462