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WBS #1.2.5.2
"QA: N/A"

MAR 01 1989

Paul T. Prestholt
Site Representative
U.S. Nuclear Regulatory Commission
1050 East Flamingo
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DATA CATALOG UPDATE

The quarterly update to the Sandia National Laboratories Data Catalog for the period ending January 15, 1989, is enclosed.

Please contact David C. Dobson of my staff at 794-7940 if you have any questions.

Maxwell B. Blanchard, Director
Regulatory and Site Evaluation Division
Yucca Mountain Project Office

YMP:DCD-2362

Enclosure:
Data Catalog

cc w/encl:
B. A. Cerney, HQ (RW-14) FORS
M. A. Glora, SAIC, Las Vegas, NV

cc w/o encl:
T. O. Hunter, SNL, 6310, Albuquerque, NM
B. M. Schwartz, SNL, 6316, Albuquerque, NM
D. M. Dawson, SAIC, Las Vegas, NV

SANDIA NATIONAL LABORATORIES (SNL)
YM PROJECT DATA RECORDS MANAGEMENT SYSTEM (DRMS)

DATA CATALOG

LABORATORY EXPERIMENTS
01/11/89

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THERMAL CONDUCTIVITY

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-07/24/78 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Thermal Conductivity of UE-25a#1 and G-Tunnel samples (H&N data).

DATA SET ID: 51/L01A-05/07/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Initial characterization of drillhole UE-25a#1 and U12g-HH1-63 from G-Tunnel, and in support of ongoing field tests (Terra Tek data).

DATA SET ID: 51/L01A-06/24/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of thermal conductivity behavior in tuffs from USW G-1 (Terra Tek data).

DATA SET ID: 51/L01A-01/13/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the Bullfrog Member in USW G-1 (Terra Tek data).

DATA SET ID: 51/L01A-04/21/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Thermal conductivity using samples from U12g-RM-P-1 in support of G-Tunnel in situ tests (Terra Tek data).

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ENCLOSURE •

THERMAL CONDUCTIVITY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-07/16/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of thermal conductivity behavior of the Pah Canyon and Topopah Spring Member from hole USW G-2 (Terra Tek data).

DATA SET ID: 51/L01A-10/07/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the tuffaceous beds of Calico Hills and of the Topopah Spring Member in USW G-1 and USW G-2 (Terra Tek data).

DATA SET ID: 51/L01A-02/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of the effect of composition, porosity, bedding plane orientation, water content, and the presence of a joint on thermal conductivity of tuff (SNL data).

DATA SET ID: 51/L01A-03/29/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the tuffaceous beds of Calico Hills in USW G-2 (Terra Tek data).

DATA SET ID: 51/L01A-05/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization/support for U12g-SDH#1 and U12g-SDH#3 heater tests from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L01A-05/17/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Comparative testing techniques examination (Terra Tek data).

THERMAL CONDUCTIVITY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-07/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of pure zeolites (Terra Tek data).

DATA SET ID: 51/L01A-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of tuff units in UE-25b#1H, USW G-2, and USW GU-3, and of U12g-HB-MPBX from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L01A-12/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the Topopah Spring Member in USW G-4 (Terra Tek data).

DATA SET ID: 51/L01A-02/21/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the tuffaceous beds of Calico Hills in USW G-4 (Terra Tek data).

DATA SET ID: 51/L01A-03/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory quality and accuracy determination (Terra Tek data).

DATA SET ID: 51/L01A-08/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Effects of lithophysae on the thermal conductivity of the Topopah Spring Member at Busted Butte (Terra Tek data).

THERMAL CONDUCTIVITY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01A-01/23/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of Topopah Spring Member in UE-25a#1, USW GU-3 and USW G-4 (Terra Tek data).

SANDIA NATIONAL LABORATORIES (SNL)
YM PROJECT DATA RECORDS MANAGEMENT SYSTEM (DRMS)

DATA CATALOG

LABORATORY EXPERIMENTS
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THERMAL EXPANSION

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01B-02/01/78 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Preliminary unconfined thermal expansion screening data for tuffs (SNL data).

DATA SET ID: 51/L01B-05/07/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Initial confined thermal expansion characterization of drill hole UE-25a#1 and U12g-HH1-63 from G-Tunnel and support of ongoing field tests (Terra Tek data).

DATA SET ID: 51/L01B-05/01/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of unconfined thermal expansion for drill holes USW G-1, USW G-2, UE-25a#1, and G-Tunnel, to gain knowledge of the expansion behavior of different tuff lithologies (SNL data).

DATA SET ID: 51/L01B-06/24/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of confined thermal expansion behavior in tuffs from USW G-1 (Terra Tek data).

DATA SET ID: 51/L01B-04/21/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of confined thermal expansion in support of in situ tests at U12g-RM-P-1 from G-Tunnel and for USW G-2 samples (Terra Tek data).

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THERMAL EXPANSION [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01B-08/11/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the Bullfrog Member in USW G-1 (Terra Tek data).

DATA SET ID: 51/L01B-10/07/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the tuffaceous beds of Calico Hills in USW G-1 and USW G-2 (Terra Tek data).

DATA SET ID: 51/L01B-03/29/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the tuffaceous beds of Calico Hills in USW G-2 (Terra Tek data).

DATA SET ID: 51/L01B-07/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize zeolitic tuff in U12g-SDH#3 from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L01B-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize tuff units from UE-25b#1h, USW G-1, USW G-2, USW GU-3, and G-Tunnel (Terra Tek data).

DATA SET ID: 51/L01B-12/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the Topopah Spring Member in USW G-4 (Terra Tek data).

THERMAL EXPANSION [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01B-02/21/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the tuffaceous beds of Calico Hills in USW G-4 (Terra Tek data).

DATA SET ID: 51/L01B-03/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Evaluation of errors in thermal expansion testing/bondline compaction using USW G-1 and Busted Butte samples (Terra Tek data).

DATA SET ID: 51/L01B-08/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Lithophysal effects on confined thermal expansion of the Topopah Spring Member from Busted Butte (Terra Tek data).

DATA SET ID: 51/L01B-01/23/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Confined thermal expansion tests to characterize the Topopah Spring Member in UE-25a#1, USW GU-3, and USW G-4 (Terra Tek data).

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HEAT CAPACITY

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L01C-07/23/85 QA LEVEL: TBD STATUS: Cancelled

DESCRIPTION: Heat capacity measurements of Tuff units from Yucca Mountain used to verify the accuracy of calculated heat capacities and to quantify the heat absorbed or released in reactions involving zeolites and clay rich tuffs.

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SANDIA NATIONAL LABORATORIES (SNL)
YM PROJECT DATA RECORDS MANAGEMENT SYSTEM (DRMS)

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MECHANICAL PROPERTIES

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-03/01/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize tuffs from UE-25a#1 and the Laser Drift in G-Tunnel (SNL data).

DATA SET ID: 51/L02-06/24/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize behavior of tuffs from USW G-1 (Terra Tek data).

DATA SET ID: 51/L02-04/14/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive test data using the Bullfrog Member in USW G-1 (Terra Tek and SNL data).

DATA SET ID: 51/L02-04/21/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of U12g-RM-P-1 from G-Tunnel in support of in situ tests (Terra Tek data).

DATA SET ID: 51/L02-06/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of the Bullfrog Member in USW G-1 (SNL data).

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MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-07/30/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compresssive test data using the Bullfrog, Prow Pass, and Tram Members in USW G-1 (Terra Tek and SNL data).

DATA SET ID: 51/L02-10/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Calico Hills Member in USW G-1 (SNL data).

DATA SET ID: 51/L02-10/07/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the tuffaceous beds of Calico Hills in USW G-1 (Terra Tek data).

DATA SET ID: 51/L02-12/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Prow Pass and Tram Members in USW G-1 (SNL data).

DATA SET ID: 51/L02-12/16/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Prow Pass and Tram Members in USW G-1 (Terra Tek data).

DATA SET ID: 51/L02-01/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Examination of acoustic emissions during compression of welded tuff (SNL data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-03/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize the Topopah Spring Member in USW G-1 (SNL data).

DATA SET ID: 51/L02-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize tuff units in USW GU-3 (Terra Tek data).

DATA SET ID: 51/L02-02/11/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of the Topopah Spring Member in USW GU-3 (SNL data).

DATA SET ID: 51/L02-06/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize the Topopah Spring Member in USW G-4 (SNL data).

DATA SET ID: 51/L02-06/02/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Cutting force determination using Busted Butte outcrop tuff for evaluation of mining machine requirements (SNL data).

DATA SET ID: 51/L02-07/29/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Laboratory comparison of matrix compressive tests using the Busted Butte outcrop (Terra Tek, SNL, and RE/SPEC data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-10/12/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to characterize the Topopah Spring Member in USW G-4 (Terra Tek data).

DATA SET ID: 51/L02-12/07/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Tensile and matrix compressive experiments of U12g-FH#2A from G-Tunnel in support of in situ tests (Terra Tek data).

DATA SET ID: 51/L02-02/24/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to determine the effect of sample size on mechanical properties of the Busted Butte Topopah Spring Member (SNL data).

DATA SET ID: 51/L02-03/30/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests of the Topopah Spring Member in USW G-2 (Terra Tek data) and parameter effects on matrix compressive properties of the Topopah Spring Member at Busted Butte (RE/SPEC data).

DATA SET ID: 51/L02-04/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Effects of lithophysae on the matrix compressive properties of large diameter samples of the Topopah Spring Member at Busted Butte (SNL data).

DATA SET ID: 51/L02-06/04/84 QA LEVEL: TBD STATUS: Cancelled

DESCRIPTION: Creep testing of the Topopah Spring Member at Busted Butte (LANL data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-06/06/84 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Fracture normal and shear behavior experiments on samples of the Topopah Spring member at Busted Butte (SNL data).

DATA SET ID: 51/L02-12/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Matrix compressive tests to determine parameter effects - temperature, pressure, strain rate, and saturation - on mechanical properties of the Topopah Spring Member at Busted Butte (SNL data).

DATA SET ID: 51/L02-05/01/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of matrix compressive properties of the welded Topopah Spring Member in UE-25a#1 (Terra Tek data).

DATA SET ID: 51/L02-06/26/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determinations of the effect of sample size on the matrix compressive properties of the welded Topopah Spring Member at Busted Butte (SNL data).

DATA SET ID: 51/L02-04/06/87 QA LEVEL: 1 STATUS: Ongoing

DESCRIPTION: Mechanical property data to analyze the response of samples of unit TSw2 to high temperature and/or low strain rates. The experiments are being performed by personnel at New England Research, Inc. (NER data).

MECHANICAL PROPERTIES [CONTINUED]

SNL CONTACT: R. H. Price, 6313

DATA SET ID: 51/L02-01/08/88 QA LEVEL: 3 STATUS: Ongoing

DESCRIPTION: Preliminary experiments designed to determine the best (accuracy, ease) technique for measuring tensile strength on samples of TSw2 during future QA Level 1 testing per SNL NNWSI Project EP-0014 (SNL data).

DATA SET ID: 51/L02-02/19/88 QA LEVEL: 3 STATUS: Ongoing

DESCRIPTION: These experiments will investigate triaxial and rotary shear techniques for obtaining fracture properties of the welded devitrified Topopah Spring Member of the Paintbrush Tuff per SNL NNWSI Project EP-0016 (SNL data).

DATA SET ID: 51/L02-02/26/88 QA LEVEL: 3 STATUS: Ongoing

DESCRIPTION: The experiments will investigate the magnitude of the mechanical anisotropy in the Topopah Spring Member of the Paintbrush Tuff per SNL NNWSI Project EP-0015 (SNL data).

SANDIA NATIONAL LABORATORIES (SNL)
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PHYSICAL PROPERTIES

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-12/01/78 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Initial characterization of UE-25a#1 drill hole (H&N data).

DATA SET ID: 51/L03-05/07/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Physical property measurements from USW G-1, UE-25a#1, and G-Tunnel samples performed during 1979 and 1980; data used to support field experiments and laboratory thermal and mechanical experiments (Terra Tek data).

DATA SET ID: 51/L03-08/01/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of Grouse Canyon Member of the Belted Range Tuff Rock Mechanics Drift from G-Tunnel and miscellaneous UE-25a#1 samples to determine where to site rock mechanics field experiments (H&N and SNL data).

DATA SET ID: 51/L03-11/01/80 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Miscellaneous bulk density experiments (SNL data).

DATA SET ID: 51/L03-01/13/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Physical property measurements from USW G-1, USW G-2, UE-25a#1, UE-25b#1h, USW VH-1, and U12g-RM-P-1 from G-Tunnel during 1981 (Terra Tek data).

PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-01/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization in support of thermal conductivity testing of lithophysal outcrops near Yucca Mountain (SNL data).

DATA SET ID: 51/L03-01/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of grain density of Bentonite Clay as a function of sample hydration (SNL data).

DATA SET ID: 51/L03-01/05/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Experimental comparison of water immersion and gas intrusion pycnometer techniques for determining grain density (SNL data).

DATA SET ID: 51/L03-01/06/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Support for mechanical testing on tuff samples from USW G-1 (Terra Tek data).

DATA SET ID: 51/L03-02/22/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of tuff units in USW G-1 (Terra Tek data).

DATA SET ID: 51/L03-04/06/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the Tiva Canyon Member outcrops at Yucca Mountain in cooperation with USGS (Terra Tek data).

PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-04/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW GU-3 stratigraphy and laboratory comparison (H&N data).

DATA SET ID: 51/L03-05/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization/support of G-Tunnel heater tests using U12g-SDH#1 and U12g-SDH#3 samples from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L03-05/27/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW GU-3 stratigraphy and laboratory comparison (H&N data).

DATA SET ID: 51/L03-05/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of dry bulk densities and grain densities used in support of hydrologic calculations and in porosity and saturation calculations (PNL data).

DATA SET ID: 51/L03-06/21/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW GU-3 samples and laboratory comparison (Terra Tek data).

DATA SET ID: 51/L03-07/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples of the Tiva Canyon, Topopah Spring, and Calico Hills Members from an outcrop at Yucca Mountain in cooperation with USGS (Terra Tek data).

PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-07/02/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of zeolites and U12g-SDH#1 and U12g-SDH#3 Tuff from G-Tunnel (Terra Tek data).

DATA SET ID: 51/L03-08/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of long-term ambient, vacuum, and pressure generated saturation levels in USW G-1 samples in support of analyses of hydrology experiments (SNL data).

DATA SET ID: 51/L03-09/07/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW G-1, USW G-2, USW GU-3, USW G-4, UE-25b#1h, and G-Tunnel samples (Terra Tek data).

DATA SET ID: 51/L03-11/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW G-4 samples (H&N data).

DATA SET ID: 51/L03-01/27/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of USW G-4 stratigraphy and laboratory comparison (Terra Tek and H&N data).

DATA SET ID: 51/L03-02/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of dry bulk and grain densities of USW G-4 samples (PNL data).

PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-07/11/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization/support of mechanical testing on Topopah Spring Member samples from Busted Butte (Terra Tek data).

DATA SET ID: 51/L03-02/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturation levels of USW G-2 and Busted Butte samples in support of analysis of hydrology experiments (SNL data).

DATA SET ID: 51/L03-04/17/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of tuff units from USW G-1 and G-Tunnel (Terra Tek data).

DATA SET ID: 51/L03-08/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of the lithophysal Topopah Spring Member from Busted Butte (Terra Tek data).

DATA SET ID: 51/L03-09/17/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Dry bulk density measurments of USW G-4 samples in support of analyses of hydrology experiments (SNL data).

DATA SET ID: 51/L03-10/15/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Grain density measurements of USW GU-3 and USW G-4 samples in support of hydrologic property analysis, the data used to determine porosities and saturations of samples (SNL data).

PHYSICAL PROPERTIES [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L03-01/18/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of Topopah Spring Member tuff from drill holes UE-25a#1, USW G-2, and USW G-4 (Terra Tek data).

DATA SET ID: 51/L03-05/02/88 QA LEVEL: 3 STATUS: Ongoing

DESCRIPTION: Grain and bulk density and porosity of post-test mechanical samples for establishing significant parameters in correlation with mechanical properties per EP-0010 (SNL data). Note: DRMS Data Set 51/L04-02/21/86 contains corresponding mineralogy data.

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MINERALOGY

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L04-05/15/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of UE-25a#1 and USW G-1 Samples (UNM Data).

DATA SET ID: 51/L04-06/24/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Analysis of bedded tuffs in G-Tunnel to provide comparative descriptions of petrology and mineralogy (UNM data).

DATA SET ID: 51/L04-10/15/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical and thermal testing on tuff from drillholes USW G-1 and USW G-2 (LANL data).

DATA SET ID: 51/L04-03/29/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of thermal expansion and thermal conductivity samples from USW G-2 (LANL data).

DATA SET ID: 51/L04-04/26/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of thermal and mechanical tests from USW G-1 and USW G-2 (in conjunction with the USGS).

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MINERALOGY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L04-08/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: X-ray diffraction of the Bullfrog Member in USW G-1 and commercial zeolites (LANL data).

DATA SET ID: 51/L04-08/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical testing on tuff from USW G-1 and from Busted Butte (UNM data).

DATA SET ID: 51/L04-01/31/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of hydrologic properties testing on tuff from USW GU-3 and USW G-4 (UNM data).

DATA SET ID: 51/L04-02/09/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical testing on large-diameter lithophysal tuff from Busted Butte (UNM data).

DATA SET ID: 51/L04-02/13/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of mechanical testing on densely welded tuff from the Topopah Spring Member at Busted Butte (UNM data).

DATA SET ID: 51/L04-01/10/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of samples in support of heat capacity measurements including x-ray, bulk chemical, and petrologic analyses (UNM data).

MINERALOGY [CONTINUED]

SNL CONTACT: F. B. Nimick, 6313

DATA SET ID: 51/L04-06/26/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Characterization of rock sample from drill hole RF-3 to determine rock type and origin for use in the interpretation of surface facility siting studies (UNM data).

DATA SET ID: 51/L04-02/21/86 QA LEVEL: 2 STATUS: Ongoing

DESCRIPTION: Petrographic x-ray characterization of samples for detailed analysis of porosity-strength and porosity-Young's Modulus relationships per SNL NNWSI Project EP-0007 (UNM data).

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SATURATED PERMEABILITY

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L05-01/28/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Permeability measurements in support of the Tuff Radionuclide Migration field experiment (SNL and Terra Tek data).

DATA SET ID: 51/L05-05/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturated matrix permeability in support of hydrologic calculations; data used for preliminary estimation of hydrology of units above the water table (PNL data).

DATA SET ID: 51/L05-02/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of fracture permeability as a function of time and stress in support of other hydrologic experiment design and analysis (SNL data).

DATA SET ID: 51/L05-02/22/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturated permeability using USW G-4 samples in support of hydrologic calculations, matrix permeabilities needed in modeling efforts (PNL data).

DATA SET ID: 51/L05-08/04/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of matrix saturated conductivities and fracture saturated permeabilities in support of hydrology calculations (PNL data).

SATURATED PERMEABILITY [CONTINUED]

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L05-11/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of matrix saturated permeability in support of hydrologic experiments and for equipment check and determination of fracture saturated permeability for initial scoping purposes (SNL data).

DATA SET ID: 51/L05-05/14/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of saturated hydraulic conductivities from USW G-1, USW G-4, and Busted Butte samples in support of hydrologic calculations and to determine permeability variation (PNL data).

DATA SET ID: 51/L05-09/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of gas permeability of saturated matrix in support of unsaturated flow calculations and determination of liquid permeability at different temperatures in support of near-field hydrologic calculations (SNL data).

DATA SET ID: 51/L05-10/31/84 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Determination of thermal dependence of fracture permeability in support of near-field hydrologic analyses and modeling; initial data (SNL data).

DATA SET ID: 51/L05-11/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of saturated permeabilities from USW G-1, USW GU-3, and USW G-4 samples in support of hydrologic property variability investigations (PNL data).

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UNSATURATED GAS PERMEABILITY

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L06-04/16/87 QA LEVEL: 3 STATUS: Completed

DESCRIPTION: Air permeability & porosity determinations to perform first-pass evaluation of lateral spatial correlation structure (geostatistical sense). Samples collected from approx. same vertical position w/in Calico Hills tuffs (Core Labs data).

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UNSATURATED WATER RETENTION CHARACTERISTICS (OF TUFF)

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L07-03/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of drying and imbibition characteristics of tuff in support of unsaturated hydrologic analyses; instrumentation check for initial hydrologic investigation (SNL data).

DATA SET ID: 51/L07-05/28/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics from USW GU-3 samples in support of hydrologic calculations for initial investigation of hydrologic properties above the water table (PNL data).

DATA SET ID: 51/L07-02/22/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics from USW G-4 samples in support of unsaturated hydrologic calculations. Resulting capillary pressure vs saturation data used in modeling efforts (PNL data).

DATA SET ID: 51/L07-05/14/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics of tuff matrix from USW G-1 and Busted Butte in support of unsaturated hydrologic calculations and to investigate experimental saturation procedures (PNL data).

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UNSATURATED WATER RETENTION CHARACTERISTICS (OF TUFF) [CONTINUED]

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L07-11/05/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of water retention characteristics from USW G-1, USW GU-3, and USW G-4 in support of hydrologic property variability investigations (PNL data).

DATA SET ID: 51/L07-12/04/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Investigation of water movement under both isothermal and non-isothermal conditions in support of water migration analyses, and computer code verification and validation process per EP-0008 (SNL data).

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PORE SIZE DISTRIBUTION

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L08-07/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Estimation of pore size distribution using EV-5 samples from G-Tunnel in support of radionuclide transport calculations (Micromeritics data).

DATA SET ID: 51/L08-10/20/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Estimation of pore size distribution for USW G-1 tuff matrix structural characterization - initial investigation of tuff matrix (Micromeritics data).

DATA SET ID: 51/L08-04/01/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Estimation of pore size distribution from USW G-4 in support of unsaturated hydrologic property calculations (Micromeritics data).

DATA SET ID: 51/L08-10/07/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of pore size distribution by mercury porosimetry techniques in support of hydrologic property analyses; comparison with saturation-pressure head data from thermocouple psychrometer testing (Micromeritics data).

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SEAL MATERIAL EVALUATION

SNL CONTACT: J. A. Fernandez, 6314

DATA SET ID: 51/L09-04/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of properties and characterization of constituents of concrete made using tuff as a coarse aggregate to establish basic properties of tuff concrete for use as a potential sealing component (WES data).

DATA SET ID: 51/L09-04/06/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of the mechanical properties of concrete/mortar in G-Tunnel after exposure to nonwelded tuff (WES data).

DATA SET ID: 51/L09-10/24/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Saturated matrix hydraulic conductivities and unsaturated matrix water retention testing on grout and concrete samples (PNL data).

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BACKFILL PROPERTIES

SNL CONTACT: J. A. Fernandez, 6314

DATA SET ID: 51/L10-03/28/85 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Determination of the effect of fine-sized material on hydraulic conductivity of crushed Busted Butte tuff (WES data).

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SURFACE SOIL PROPERTIES

SNL CONTACT: D. J. Gibson, 6315

DATA SET ID: 51/L11-05/13/83 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Evaluation of material properties for excavation and foundation conditions using material from SFS-3 through SFS-7 (H&N data).

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GEOCHEMISTRY

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 51/L12-05/02/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Geochemical analyses of water from elevated temperature permeability tests to assess chemical changes in water after flowing through tuff sample (UNM data).

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RADIOMETRY

SNL CONTACT: S. Sinnock, 6317

DATA SET ID: 51/L13-03/19/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Potassium-argon age determinations for basalts in Crater Flat, Nevada (Geochron Laboratories, University of California Berkeley, and University of Arizona data).

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THERMAL DEGRADATION OF TUFF

SNL CONTACT: S. Bauer, 6314

DATA SET ID: 51/L14-04/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Measurements of percent moisture content of USW G-2 samples in support of near-field thermal degradation in Topopah Spring Tuff (SNL data).

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FRACTURE TOPOGRAPHY

SNL CONTACT: P. Kaplan, 6312

DATA SET ID: 51/L15-04/12/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of fracture geometry as it might influence fluid flow and investigation of matrix hydrologic properties for use in the computer code "TOUGH" (LBL data).

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SEAL MATERIAL STABILITY MEASUREMENTS

SNL CONTACT: T. Hinkebein, 6314

DATA SET ID: 51/L16-08/19/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Determination of the mechanical, hydrologic, bulk, and initial composition and mineralogical alterations of grout at various temperatures and times, including tests using densely welded Busted Butte tuff (PSU data).

DATA SET ID: 51/L16-11/27/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Analysis of old, cementitious-based materials (PSU data).

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FLOW PHENOMENA

SNL CONTACT: P. Kaplan, 6312

DATA SET ID: 51/L17-12/01/86 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Scoping experiments to illustrate the variability of unsaturated flow phenomena (SNL data).

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GTUF GEOTECHNICAL MEASUREMENTS

SNL CONTACT: R. M. Zimmerman, 7543

DATA SET ID: 55/F01-02/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Ambient temperature borehole measurements in the Grouse Canyon welded tuff at G-Tunnel to (1) establish baseline reference data and (2) gain field testing experience in welded tuff.

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SMALL DIAMETER HEATER #1, 2, 3

SNL CONTACT: R. M. Zimmerman, 7543

DATA SET ID: 55/F02-04/12/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Heater experiments that measure temperature distributions and monitor water migration phenomena in welded tuff and nonwelded tuff in G-Tunnel. SDH#3 also monitored thermal expansion in welded tuff. Data used to evaluate heat transfer models.

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G-TUNNEL HEATED BLOCK

SNL CONTACT: R. M. Zimmerman, 7543

DATA SET ID: 55/F03-02/01/82 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Utilize excavation flatjack pressure changes, heat fluxes in stages of slot cutting, ambient temperature, & thermal cycle testing to evaluate coupled, thermomechanical, & hydrothermal behavior of an 8 cubic meter block of jointed welded tuff.

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G-TUNNEL PRESSURIZED SLOT

SNL CONTACT: F. D. Hansen, 6313

DATA SET ID: 55/F04-03/08/83 QA LEVEL: TBD STATUS: Ongoing

DESCRIPTION: Machine thin slots in welded tuff that can be used for direct pressure testing using flatjacks to measure surface stresses, mechanical deformation & evaluate strength properties. Data used in repository conceptual design.

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G-TUNNEL MINING EVALUATION

SNL CONTACT: R. M. Zimmerman, 7543

DATA SET ID: 55/F05-11/01/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Evaluate response of welded tuff to repository scale excavations for model evaluations; instrument placement and measurement techniques during mining activities; and mining & drift stabilizing techniques to serve as prototype for ES testing.

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G-TUNNEL COREHOLE LOGS AND FRACTURE MAPPING

SNL CONTACT: R. M. Zimmerman, 7543

DATA SET ID: 55/F07-02/01/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Pre and post water migration test characterization of Grouse Canyon tuff including fracture orientation of cores, corehole and coreback logs (including discontinuities), and maps of Rock Mechanics Drifts.

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WEAPONS TEST SEISMIC STUDIES

SNL CONTACT: R. R. Hill, 6311

DATA SET ID: 55/F08-06/30/66 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: This data set includes all seismic data generated from selected UNEs conducted at NTS having valid application to the NNWSI Project during the period 06/30/66 to 12/23/86.

DATA SET ID: 55/F08-04/07/87 QA LEVEL: 1 STATUS: Completed

DESCRIPTION: This data set includes all seismic data generated from selected UNEs conducted at NTS which have valid application to the NNWSI Project during the period 04/07/87 to 04/07/88 per EP-0004.

DATA SET ID: 55/F08-04/08/88 QA LEVEL: 1 STATUS: Ongoing

DESCRIPTION: This data set will include all seismic data generated from selected UNEs conducted at NTS which have valid application to the NNWSI Project during the period 04/08/88 to 04/08/89 per EP-0004.

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SURFACE FACILITY SUBSURFACE BORINGS

SNL CONTACT: D. J. Gibson, 6315

DATA SET ID: 55/F09-01/04/84 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Subsurface borings are obtained to determine alluvial thickness and nature of alluvial/bedrock interface. Data are used for determining seismic suitability of surface (waste-handling) facilities.

DATA SET ID: 55/F09-06/11/85 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Borings used to establish subsurface geometry & material properties beneath the reference conceptual site for repository surface facilities & make recommendations regarding preliminary validation of the site with emphasis on seismic engineering.

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IN SITU TUFF WATER MIGRATION/HEATER EXPERIMENT

SNL CONTACT: E. A. Klavetter, 6313

DATA SET ID: 55/F10-02/14/79 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: This in situ experiment describes an initial assessment of the water generation/migration response of tuff to a thermal input.

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METEOROLOGY

SNL CONTACT: R. R. Hill, 6311

DATA SET ID: 55/F11-11/01/81 QA LEVEL: TBD STATUS: Completed

DESCRIPTION: Meteorological data at site YR (Yucca Ridge) and site YA (Yucca Alluvial) in support of environmental, engineering design, and possible air quality assessment requirements.

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SURFACE FACILITIES, MAPPING

SNL CONTACT: D. J. Gibson, 6315

DATA SET ID: 55/F12-01/29/87 QA LEVEL: 1 STATUS: Ongoing

DESCRIPTION: Trench and surface mapping and sampling, age dating, and analysis of fault-related features as per SNL EP-0001. Data are applied to siting and design of repository waste-handling facilities.

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PROTOTYPE THERMAL STRESS TESTING

SNL CONTACT: F. D. Hansen, 6313

DATA SET ID: 55/F13-05/15/87 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Measurements of stress, temperature, and displacements in heater experiment located in the roof and side wall of the Demonstration Drift in G-Tunnel per EP-0006.

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CANISTER-SCALE HEATER EXPERIMENT

SNL CONTACT: R. Finley, 6313

DATA SET ID: 55/F14-02/19/87 QA LEVEL: 1 STATUS: Planned

DESCRIPTION: Canister-scale heater experiment to obtain thermal and thermomechanical rock mass measurements to document and evaluate the effects of thermal pulses on a representative emplacement hole per EP-0009.

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PROTOTYPE TESTING OF BLAST EFFECTS

SNL CONTACT: B. A. Luke, 6313

DATA SET ID: 55/F17-07/20/87 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Characterization of the blast pulse associated with the excavation of a drift in welded tuff. Particle accelerations, velocities, and stress will be measured per EP-0011.

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PROTOTYPE IN SITU STRESS TESTING/ASR

SNL CONTACT: R. Finley, 6313

DATA SET ID: 55/F18-10/01/87 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: Anelastic Strain Recovery (ASR) technique will be performed in G-Tunnel and compared to overcoring results to assess the feasibility of using ASR at Yucca Mountain per EP-0013.

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ROCK MASS RESPONSE EXPERIMENT

SNL CONTACT: R. Finley, 6313

DATA SET ID: 55/F19-03/04/88 QA LEVEL: 3 STATUS: Planned

DESCRIPTION: This experiment will be conducted in G-Tunnel, NTS, and will assess the feasibility of conducting large scale rock mass strength experiments in the ESF per EP-0019.

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TUNNEL RESPONSE TO DYNAMIC LOADS

SNL CONTACT: R. Finley, 6313

DATA SET ID: 55/F20-10/18/88 QA LEVEL: 1 STATUS: Planned

DESCRIPTION: A qualitative assessment of the performance of tunnels to explosive loads will be made using drift convergence (tape-extensometer) and borehole televiewing per EP-0020.

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YUCCA MOUNTAIN HEATED BLOCK EXPERIMENT

SNL CONTACT: F. D. Hansen, 6313

DATA SET ID: 55/F21-11/29/88 QA LEVEL: 1 STATUS: Planned

DESCRIPTION: The Yucca Mountain Heated Block Experiment is intended to evaluate the thermomechanical response of a representative volume of rock.

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scenario. The latter studies are conducted by Sandia National Laboratory. Scenario development studies involve prediction from the geologic data of the most likely type of effects due to future volcanism. These studies are speculative; therefore, the results are tested for acceptance through formal peer review and publication in the open scientific literature.

5.7 Publication of Results

Results of volcanic hazard studies are published routinely. These reports become formal compilations of the data gathered, interpretations, and conclusions of the work. Published reports are subject to independent review in accordance with the NNWSI Procedure for Technical Review of Publications (TWS-CMBQA-QP-07).

6. REFERENCE

Not applicable.