



Department of Energy

Nevada Operations Office
P. O. Box 98518
Las Vegas, NV 89193-8518

WBS # 1/2/5
"QA"

JAN 20 1989

John J. Linehan
Division of High-Level Waste Management
U.S. Nuclear Regulatory Commission
M/S 4-H-3
Washington, DC 2055

YUCCA MOUNTAIN PROJECT SITE CHARACTERIZATION PLAN (SCP) REFERENCE STATUS AS OF
JANUARY 20, 1989, WITH TRANSMITTAL OF ADDITIONAL REFERENCES

References: (1) Letter, Gertz to Linehan, dtd. 1/11/89
(2) Letter, Thompson to Rousso, dtd. 1/13/89

On January 20, 1989, 33 SCP references were transmitted, under separate cover, to you (see enclosure 1), as promised in the January 11, 1989, letter. These included 29 citations known to be missing from the December 29, 1988, transmittal and an additional 4 that were requested verbally by Paul Prestholt, U.S. Nuclear Regulatory Commission on January 17, 1989. Seven references will be deleted in the SCP Errata (enclosure 2).

These enclosures provide a final status for all SCP references identified as of January 20, 1989, including all of the references requested in the January 13, 1989, letter. A final quality check of the entire document is under way and copies of all further citations will be provided as soon as possible.

Carl P. Gertz, Project Manager
Yucca Mountain Project Office

YMP:USC-1585

Enclosures:

1. List of SCP references sent on 1/20/89
2. List of SCP references requested
verbally by Paul Prestholt on 1/17/89
3. List of SCP reference citations to be deleted

8901230426 890120
PDR WASTE
WM-11 PDC

102.8
wm-11
NH03

JAN 20 1989

cc w/encls:

Ralph Stein, HQ (RW-30) FORS
J. D. Saltzman, (RW-20) FORS
S. J. Brocum, HQ (RW-221) FORS
Gordon Appel, HQ (RW-331) FORS
D. H. Alexander, HQ (RW-332) FORS
Robert Gamble, Weston, Washington, DC
J. L. Younker, SAIC, Las Vegas, NV
C. L. Stewart, SAIC, Las Vegas, NV
R. C. Murray, SAIC, Las Vegas, NV
L. V. Hoffman SAIC, Las Vegas, NV
Antonetta Miller, SAIC, Las Vegas, NV
E. L. Wilmot, YMP, NV
M. B. Blanchard, YMP, NV
D. C. Dobson, YMP, NV
U. S. Clanton, YMP, NV

ENCLOSURE (1) REFERENCES SENT 1/20/89

Allmendinger R. W., T. A. Hauge, E. C. Hauser, C. J. Potter, S. L. Klemperer, K. D. Nelson, P. Kneupfer, 1987. Overview of the COCORP 40°N Transect, western United States: The fabric of an orogenic belt, Geological Society of America Bulletin, v. 98, pp. 308-319, March 1987.

ANSI/ASME (American National Standards Institute/American Society of Mechanical Engineers), 1986. Quality Assurance Program Requirements for Nuclear Facilities, ANSI/ASME NQA-1-1986, New York

Auld, F. A., 1983. Design of Underground Plugs: International Journal of Mining Engineering, v. 1, Chapman and Hall Ltd., London, pp. 189-228.

Ballivy, G., 1986. Presentation on Planning, October 7, 1986, AECL-Fuel Waste Technology Branch, Grouting Experiment Team Meeting No. 3 (ms).

Bodvarsson, G. S., A. Niemi, A. Spencer, M. P. Attanyake, 1988. Preliminary Calculations of the Effects of Air and Liquid Water-Drilling on Moisture Conditions in Unsaturated Rocks, LBL-25073, Lawrence Berkley Laboratory, Berkley, CA, November 1988, 58 p.

Brown, G. E., C. J. Chisholm, K. F. Hayes, A. L. Roe, G. A. Parks, K. O. Hodgson, J. O. Leckie, 1987. In-situ X-ray Absorption Study of Pb(II) and Co(II) Sorption Complexes at the Gamma-Al₂O₃/Water Interface, Stanford Synchrotron Radiation Laboratory Activity Report (1987), Stanford University, Stanford, CA, pp. 59-61.

Cranwell, R. M., R. V. Guzowski, J. E. Campbell, and N. R. Ortiz, 1982. Risk Methodology for Geologic Disposal of Radioactive Waste: Scenario Selection Procedure, SAND80-1429, Sandia National Laboratories, Albuquerque, NM.

DOE (U. S. Department of Energy), 1988, Environmental Regulatory Compliance Plan for Site Characterization, DOE/RW-0209.

DOE (U. S. Department of Energy), 1988d. NNWSI Surface-Based Investigation Plan, VOL. 3.

Eby, W. R., 1981. Material Handling by Pneumatic Transport, Rapid Excavation and Tunneling Conference, May 3-7, 1981, San Francisco, California, Eby Enterprises Inc., Kent, Washington, (ms).

EPA (U. S. Environmental Protection Agency), 1985. 40 CFR Part 191: Environmental Standards for the Management and Disposal of Spent Nuclear Fuel, High-Level Radioactive Wastes; Final Rule, Federal Register, Vol. 51, Washington, D.C., pp. 38066-38089.

Gray, M. N., (comp.), 1986. Stripa Phase III, Report on Sealing Materials and Methods (ms), Atomic Energy of Canada Limited, Pinawa, Manitoba.

Hardyman, R. F., 1980. Geologic Map of the Gillis Canyon Quadrangle, Mineral County, Nevada, U. S. Geological Survey Miscellaneous Investigations Map I-1237, U. S. Geological Survey.

Hayes, K. F., A. L. Roe, G. E. Brown, K. O. Hodgson, J. O. Leckie, G. A. Parks, 1987. In Situ X-ray Absorption Study of Surface Complexes: Selenium Oxyanions on Alpha-FeOOH, Science, Vol. 238, November 6, 1987, pp. 783-786.

Hooton, R. D., 1986a, Cement-Based Construction Grouts for Possible Use at the URL, Ontario Hydro Research, Report No. 83-393-K.

Hunter, R. L., R. M. Cranwell, M. S. Y. Chu, 1986. Assessing Compliance with the EPA High-Level Waste Standard: an Overview, SAND86-0121, Sandia National Laboratories, Albuquerque, NM.

Iwai, K., 1976, Fundamental Studies of Fluid Flow Through a Single Fracture, Thesis University of California, Berkley, CA, 232 p.

Kwicklis, E. M. and D. T. Hoxie, 1988. Numerical Simulation of Liquid-Water Infiltration Into a Fractured Welded Tuff, Workshop IV on Flow and Transport through Unsaturated Fractured Rock as Related to a High-Level Radioactive Waste Repository, (abstract), University of Arizona, Tuscon, AZ.

Lingle, R., D. D. Bush, B. G. DiBona, P. H. Licastro, D. M. Roy, and B. E. Scheetz, 1983, Full Scale Borehole Sealing Test in Basalt Under Simulated Downhole Conditions, TRE-82-09, Terra Tek Engineering for Office of Nuclear Waste Isolation, Battelle Memorial Institute, Columbus, Ohio.

[NOTE: Lingle, et al (1983) replaces Draft Report: Lingle & Bush 1982]

Mather, B., 1967, Cement Performance in Concrete, US-CE-C No. 6-787, U. S. Army Engineer Waterways Experiment Station, Corps of Engineers, Vicksburg, MS.

McCombie, C. and B. Knecht, 1986, Stripa Project - Grouting of Small Fractures in Crystalline Rock in the Framework of Nuclear Waste Disposal: A Summary of the Situation in Switzerland (ms), Nationale Genossenschaft fur die Lagerung Radioaktiver Abfalle (NALGRA), Baden, 6 p.

NCRP (National Council on Radiological Protection and Measurements), 1984. Radiological Assessment: predicting the Transport, Bioaccumulation, and Uptake by Man of Radionuclides Released to the Environment, Report No. 76, Bethesda, Maryland.

Onofrei, M., M. N. Gray, L. D. Keil, and R. Pusch, 1988. Studies of Cement Grouts and Grouting Techniques for Sealing a Nuclear Fuel Waste Disposal Vault (ms), Conference on Monitored Retrievable Storage, Boston, MA, November, 1988.

[NOTE: this reference replaces Gray, 1987, which was a personal communication]

Orkild, P. P., 1986. Personal communication cited in SCP reference 3336: McArthur, R. D. and N. R. Burkhard, 1986.

Pratt, A. W., 1969. Heat Transmission in Low Conductivity Materials, Thermal Conductivity, R. P. Tye, (ed.), Academic Press, New York, pp. 301-405.

Pusch, R., 1986, Rock Sealing Materials and Techniques Used in Sweden (ms), Swedish Geological Col, Lund, 26 p.

Roy, D. M. and C. A. Langton, 1983. Characterization of Cement-Based Ancient Building Materials in Support of Repository Seal Materials Studies, BMI/ONWI-523, Office of Nuclear Waste Isolation, Battelle Memorial Institute, Columbus, OH.

[NOTE: cited in SCP as Langton & Roy, 1983]

Roy, D. M., K. Mather, M. W. Grutzeck, A. D. Buck, 1982. PSU/WES Interlaboratory Comparative Methodology Study of an Experimental Cementitious Repository Seal Material; Report 2: Final Results, US Army Corps of Engineers, W.E.S.-SL81-2, National Technical Information Service, Springfield, Virginia, 156 p.

Westsik, J. H., F. N. Hodges, W. L. Kuhn, T. R. Myers, 1983. Water Migration through Compacted Bentonite Backfills for Containment of High-Level Nuclear Waste, Nuclear and Chemical Waste Management, Vol. 4, pp. 291-299.

ENCLOSURE (2) VERBAL REQUEST BY PAUL PRESTHOLT, NRC

Bauer, S. J., L. S. Costin, J. F. Holland, 1988. Preliminary Analysis in Support of In Situ Thermomechanical Investigations, SAND88-2785, Sandia National Laboratories, Albuquerque, NM.

F & S (Fenix & Scisson), 1987a. NNWSI 51 Seismic Hole Histories, DOE/NV/10322-25, Fenix And Scisson Inc., Las Vegas, NV, September 1987.

F & S (Fenix & Scisson), 1987b. NNWSI Hole Histories: USW UZ-1, UE-25 UZ#4, US-25 UZ#5, USW UZ-6, USW UZ-6s, USW UZ-7, USW UZ-8, USW UZ-13, DOE/NV/10322-20, Fenix and Scisson Inc., Las Vegas, NV, April 1987.

F & S (Fenix & Scisson), 1987c. NNWSI Hole Histories, USW G-1, USW G-2, USW G-3, USW G-4, USW GA-1, USW GU-3, DOE/NV/10322-19, Fenix and Scisson Inc., Las Vegas, NV, June 1987.

ENCLOSURE (3) REFERENCES TO BE DELETED FROM SCP

Brennecke, L. and E. Lohmeyer, 1938. Der Grundbau (Foundation Engineering), Vol. I, Pt. I, Ernst John, Berlin.

Cranwell, et al, 1962. [citation was typographical error]

Hooton, R. D., 1986b, Development of Concrete Mixtures for Radioactive Waste Disposal, 2nd International Conference on Radioactive Waste Management, Canadian Nuclear Society, Winnipeg, Canada.

Loos, W., 1937. Praktische Anwendung der Baugrunduntersuchungen (Practical Applications of Soil Investigations), Springer, Berlin.

NRC (Nuclear Regulatory Commission), 1968.

Rautman, et al, 1988. Estimates of Spatial Variability of Volcanic Tuffs, Yucca Mountain, Nevada, SANDXX-XXXX, in prep.

Scheetz, B. E. and D. M. Roy, in prep. 1986. Preliminary Survey of the Stability of Silica-Rich Cementitious Mortars (82-22 and 84-12) with Tuff, Los Alamos National Laboratories, Los Alamos, NM, 69 p.