



UNITED STATES  
NUCLEAR REGULATORY COMMISSION  
WASHINGTON, D.C. 20555-0001

July 7, 1998

MEMORANDUM TO: Central File

FROM: Sandra L. Wastler *S. Wastler*  
Performance Assessment & HLW  
Integration Branch  
Division of Waste Management, NMSS

SUBJECT: SUBMITTAL OF DOCUMENTS

The following documents have been received from the U.S. Department of Energy, either directly or through the U.S. Nuclear Regulatory Commission's On-Site Representatives and should be placed in the High-Level Waste, Yucca Mountain Subject file:

1. University of Nevada Reno, Report: "Geochemical and Isotopic Interpretation of Groundwater Flow, Geochemical Processes, and Age Dating of Groundwater in the Carbonate-Rock Aquifers of the Southern Basin and Range" by James M. Thomas, May 1996.
2. TRW Report 3663, "Summary & Synthesis of Biological Sorption & Transport", August 30, 1996, Completion of Level 3 Fiscal Year 1996 M&O Milestone, WBS 1.2.3.4.1.2.2.
3. Lawrence Livermore National Laboratory Report, "Synthesis Report on Man-Made Materials, Inventory & Materials", September 30, 1996, FY 1996 Level 4 Deliverable, WBS 1.2.3.12.5.
4. Los Alamos National Laboratory Report prepared for U.S. Department of Energy, "Synthesis of Volcanism Studies for the Yucca Mountain Site characterization Project, February 6, 1998. *1/0*
5. Ernest Orlando Lawrence Berkeley National Laboratory Report, "Revised: Milestone SP3B2BM4 Report on CDP Reflection Image and Subsurface Structure Along Lines B and C: UZ-16 VSP", February 9, 1998, WBS 1.2.3.11.2 Surface Geophysics. *NHRT*
6. Memorandum to R.W. Craig, Chief, Yucca Mountain Project Branch from U.S. Department of the Interior, Geological Survey, Denver, CO submitting Milestone SPC23FM4, due March 14, 1997 with attached "memorandum report", FY 1997 Level 4 Deliverable, WBS 1.2.3.6.2.2.1, "Geochronology of Fracture Fill Material, ESF & Estimated Past Water Fluxes". *102*

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7. Memorandum dtd April 17, 1998 to J. Greeves, from F.B. Randall, Jr., submitting the Nuclear Waste Technical Review Board's 1977 Report to The U.S. Congress and the Secretary of Energy entitled "1997 Findings and Recommendations".
8. Lawrence Livermore National Laboratory, "Large Block Test Status Report" (UCRL-ID-128776), August 26, 1997.
9. U.S. Geological Survey, Open-File Report 97-834, "Preliminary Three-Dimensional Discrete Fracture Model of the Topopah Spring Tuff In The Exploratory Studies Facility, Yucca Mountain Area, Nye County, Nevada", 1998.
10. U.S. Department of Energy, Office of Civilian Radioactive Waste Management, "Repository Closure Policy", Preliminary Draft Q - 4/3/98.
11. TRW Report, "Transmittal of Vertical Slice Review Report on the Site-Scale Unsaturate Zone (UZ) Flow Model", WBS:1.2.5.4, March 27, 1998.
12. Civilian Radioactive Waste Management System, Management & Operating Contractor Report, "East-West Drift Geotechnical Predictive Report", Geotechnical Data Report (BABEA0000-01717-5705-00001 Revision 1), May 1998, Vol. I and Vol. II.
13. Yucca Mountain Project, Agenda for Panel on Performance Assessment (TSPA-VA): Presented to Nuclear Waste Technical Review Board by Yucca Mountain Site Characterization Office on April 23-24, 1998.
14. Nye County, Nevada, Department of Natural Resources & Federal Facilities to Neil Coleman, U. S. NRC submitting references from Geosciences Management Institute, Inc. and Multimedia Environmental Technology.
15. U.S. Geological Survey, Water-Resources Investigations Report 97-4243: "Characterization of Hydrogeologic Units Using Matrix Properties, Yucca Mountain, Nevada", 1998.
16. TRW Report, "Deferred Repository Closure", Jack N. Bailey, January 12, 1998.
17. Video Tape: "Thermal Testing at Yucca Mountain, March 1998.
18. Data Cartridge: 3-D Geologic Framework and Integrated Site Sub-Model of Yucca Mountain, Nevada, 10/1/97 to 4/13/98.
19. Earthfield Technology Summary Report, "Magnetic and Gravity Study of the Yucca Mountain Area, Nevada prepared for Lawrence Berkley National Laboratories, November 1995.

**20. Maps produced by CRWMS M&O/TDM on May 7, 1998, Yucca Mountain Site Characterization Project:**

- 1. YMP-98-046.1: Magnetic Basement Depth from Sea Level in Depth**
- 2. YMP-98-045.1: Depth from Sea Level to Paleozoic Basement (Isostatic) in Feet**
- 3. YMP-98-044.1: Depth from Sea Level to Paleozoic (Residual) in Feet**
- 4. YMP-98-038.0: Magnetic X,Y Derivative**
- 5. YMP-98-036.0: Magnetic RTP HP 20-30,000Ft, 1VD**
- 6. YMP-98-037.0: Magnetic Reduced to the Pole**
- 7. YMP-96-018.3: Interpreted Near Surface Faults and Intrusions Based on Aeromagnetic Data (Magnetic Lineation Map)**

**Attachments: As stated**

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415-6724**

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