



EST. 1943
 Risk Reduction & Environmental Stewardship (RRES)
 Remediation Services (RS), MS M992
 Los Alamos, New Mexico 87545
 (505) 667-0808/FAX (505) 665-4747

TA-21

Date: August 6, 2004
 Refer To: ER2004-0435

Mr. John Young, Project Leader
 Permits Management Program
 NMED – Hazardous Waste Bureau
 2905 Rodeo Park Drive East
 Building 1
 Santa Fe, NM 87505-6303



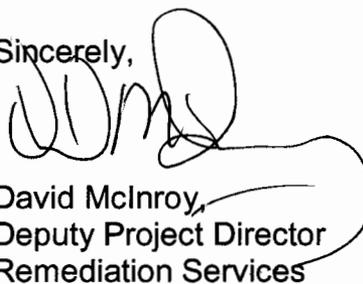
Salutation: TRANSMITTAL OF ADDITIONAL DOCUMENT REFERENCE SETS FOR ADDITIONAL DOCUMENTS REFERENCED IN THE INVESTIGATION WORK PLANS FOR MATERIAL DISPOSAL AREAS B, T, AND V AT TECHNICAL AREA 21

Dear Mr. Young:

Attached please find a copy of additional references for Technical Area 21 as identified in the Investigation Work Plans for Material Disposal Areas B, T, and V.

If you have any questions, please contact Ron Rager at (505) 665-4065, or Woody Woodworth at (505) 667-5820

Sincerely,



David McInroy,
 Deputy Project Director
 Remediation Services

DM/RR/am

Enclosure: Reference sets for TA 21 Investigation Work Plans for Material Disposal Areas B, T, and V



Mr. John Young
ER2004-0435

2

August 6, 2004

Cy (w/enc.):

N. Quintana, RRES-ECR, MS M992
RRES-RS File, MS M992
IM-5, MS A150
RPF, MS M707

Cy (w/o enc.):

D. McInroy, RRES-RS, MS M992
M. Thacker, RRES-ECR, MS M992
R. Rager, RRES-ECR, MS M992
L. Woodworth, LASO, MS A316



Memorandum

Risk Reduction & Environmental Stewardship—
Remediation Services Project, MS M 992

Date: August 5, 2004

**SUBJECT: UPDATE TO REFERENCE SET FOR MATERIAL DISPOSAL AREAS,
TECHNICAL AREA 21**

The enclosed materials are an update to the Reference Set for Material Disposal Areas, Technical Area 21, of the Los Alamos National Laboratory Risk Reduction and Environmental Stewardship—Remediation Services Project Library. The enclosed materials include revised tables of contents for the appropriate volumes. These references correspond to the “Investigation Work Plan for Solid Waste Management Unit 21-018(a)-99, Material Disposal Area V, at Technical Area 21,” “Investigation Work Plan for Material Disposal Area B, at Technical Area 21, Solid Waste Management Unit 21-015,” for Los Alamos National Laboratory, NM0890010515, which were submitted in June 2004, and “Investigation Work Plan for Material Disposal Area T at Technical Area 21, Solid Waste Management Unit 21-016(a)-99,” which was submitted in February 2004.

To update the Reference Set for TA-21, follow these steps:

1. Remove and discard the existing table of contents pages from the appropriate volumes and replace them with the enclosed revised table of contents pages.
2. Insert the enclosed tabs and corresponding references in the appropriate volumes in numerical sequence.



REFERENCE SET FOR TECHNICAL AREA 21 VOLUME 8

This reference set is provided to facilitate review of Laboratory Environmental Restoration (ER) Project documents and is organized by ER identification (ER ID) number.

ER Project documents use ER ID numbers to track reference items through its Records-Processing Facility. Because ER ID numbers are issued on an ongoing basis throughout the entire ER Project, gaps may be present in the numbers included in this table of contents.

TABLE OF CONTENTS

- 63038** LANL (Los Alamos National Laboratory), February 16, 1999. "Los Alamos National Laboratory Environmental Restoration (ER) Site-Specific Health & Safety Plan (SSHASP), Non-Traditional In Situ Vitrification (NTISV) Demonstration at TA-21 MDA-V Site," SSHASP No. 230, Los Alamos National Laboratory, Los Alamos, New Mexico. (LANL 1999, 63038)
- 63039** Geosafe Corporation, February 8, 1999. "Non-Traditional In Situ Vitrification Demonstration Plan for the MDA-V Site at the Los Alamos National Laboratory," Revision 1, Geosafe Corporation report, Richland, WA. (Geosafe Corporation 1999, 63039)
- 63040** ORNL (Oak Ridge National Laboratory), August 1996. "Technical Evaluation of the In Situ Vitrification Melt Expulsion at the Oak Ridge National Laboratory on April 21, 1996, Oak Ridge, Tennessee," Oak Ridge National Laboratory report ORNL/ER-377, Oak Ridge, TN. (ORNL 1996, 63040)
- 63095** Francis, W., April 6, 1999. "A History of the 1949 Alterations to Building TA-21-45," Los Alamos National Laboratory memorandum EM/ER-RAFA:99025 to G McMath, Los Alamos, New Mexico. (Francis 1999, 63095)
- 63125** Francis, W., July 1, 1996. "TA-21 Building 45," ERM Program Management Company telephone log from Linnea Wahl, Los Alamos, New Mexico. (Francis 1996, 63125)
- 63126** Francis, W., April 6, 1999. "A History of the 1949 Alterations to Building TA-21-45," Los Alamos National Laboratory memorandum EM/ER-RAFA:99-025 to G. McMath, Los Alamos, New Mexico. (Francis 1999, 63126)
- 63127** Blackwell, C., October 12, 1953. "Old Safety Training Building on DP Road," Los Alamos Scientific Laboratory letter to J. Bolton, Los Alamos, New Mexico. (Blackwell 1953, 63127)
- 63131** LANL (Los Alamos National Laboratory), April 1997. "Performance Assessment and Composite Analysis for Los Alamos National Laboratory Material Disposal Area G," Los Alamos National Laboratory document LA-UR-97-85, Los Alamos, New Mexico. (LANL 1997, 63131)
- 63870** LANL (Los Alamos National Laboratory), April 15, 1998. "Fact Sheet for 21-005 (Nitric Acid Pit)," Los Alamos National Laboratory document, Los Alamos, New Mexico. (LANL 1999, 63870)
- 63871** Francis, W., May 3, 1999. "Acid Pit, TA-21-70, South of TA-21-31 and East of TA-21-30, SWMU 21-005," Los Alamos National Laboratory memorandum from to G. McMath, Los Alamos, New Mexico. (Francis 1999, 63871)
- 64002** LANL (Los Alamos National Laboratory), May 26, 1999. "ESH ID #99-0113 SME Comments," Los Alamos National Laboratory memorandum, Los Alamos, New Mexico. (LANL 1999, 64002)
- 64004** Environmental Restoration Project, April 12, 1999. "Telephone Communication Record," Los Alamos National Laboratory phone log to J. Kieling and J. Young, Los Alamos, New Mexico. (Environmental Restoration Project 1999, 64004)

64040 ASTM (American Society for Testing and Materials) 1998. "1998 Annual Book of ASTM Standards, Vol. 12.01, Nuclear Energy," American Society for Testing and Materials, West Conshohocken, Pennsylvania. (ASTM 1998, 64040)

64146 Bay Geophysical Associates, July 24, 1998. "Results of Integrated Geophysical Investigation, Los Alamos National Laboratory TA-21, MDA B," letter from M. Scott McQuown, Bay Geophysical Associates, to John Hopkins, Morrison Knudsen Corporation, Project No. 98-176P, 20 pp. (Bay Geophysical 1998, 64146)

64147 Bay Geophysical Associates, August 31, 1998. "Results of Additional Geophysical Surveying TA-21, MDA B, Los Alamos, New Mexico," letter from M. Scott McQuown, Bay Geophysical Associates, to John Hopkins, Morrison Knudsen Corporation, Project No. 98-176P, 7 pp. (Bay Geophysical 1998, 64147)

64804 MSE-TA (MSE Technology Applications), November 1999. "Final Report--Cold Demonstration of Nontraditional in Situ Vitrification at the Los Alamos National Laboratory," MSE-TA report ECCP-11, Butte, Montana. (MSE-TA 1999, 64804)

63131 LANL (Los Alamos National Laboratory), April 1997. "Performance Assessment and Composite Analysis for Los Alamos National Laboratory Material Disposal Area G," Los Alamos National Laboratory document LA-UR-97-85, Los Alamos, New Mexico. (LANL 1997, 63131)

69794 Stauffer, P.H., K.H. Birdsell, M. Witkowski, T. Cherry, and J. Hopkins, March 2000. "Subsurface Vapor-Phase Transport of TCA at MDA L: Model Predictions," Los Alamos National Laboratory document LA-UR-00-2080, Los Alamos, New Mexico. (Stauffer et al. 2002, 69794)

70011 Soll, W., and K. Birdsell, February 1998. "The Influence of Coatings and Fills on Flow in Fractured, Unsaturated Tuff Porous Media System," *Water Resources Research*, Vol. 34, No. 2, pp. 193-202. (Soll and Birdsell 1998, 70011)

70114 Springer, E.P., G.J. Langhorst, and E.S. Hamilton, 2001. "Hydrogeologic Properties of the Bandelier Tuff and Groundwater Occurrence at DP Mesa, TA-21, Los Alamos National Laboratory, Los Alamos, New Mexico," Los Alamos National Laboratory document LA-UR-01-4242, Los Alamos, New Mexico. (Springer et al. 2001, 70114)

71233 LANL (Los Alamos National Laboratory), December 1, 2000. "University of California Los Alamos National Laboratory (LANL), I8980SOW0-8S Statement of Work for Analytical Laboratories, SOW Revision 1," Los Alamos, New Mexico. (LANL 2000, 71233)

71345 Nyhan, J.W., Salazar, J.A., Breshears, D.D., Barnes, F.J., 1998. "A Water Balance Study of Four Landfill Cover Designs at Materials Disposal Area B in Los Alamos, New Mexico," Los Alamos National Laboratory report LA-10573-MS, Los Alamos, New Mexico. (Nyhan et al. 1998, 71345)

72802 This document was incorrectly referenced in the MDA B Investigation Work Plan. The correct number is 73705.

73705 LANL (Los Alamos National Laboratory), December 2002. "Updates to the Radionuclide Screening Action Levels (SALs) Based on RESRAD 6.21," Los Alamos National Laboratory memorandum with enclosure to the Risk Assessment Team from R. Mirenda (RRES-R), Los Alamos, New Mexico. (LANL 2002, 73705)

76089 Stoopes, G., August 8, 2003. "Drilling and Radiological Contamination at Former Building 35, TA-21 (former Operating Unit (OU) 1106)," memorandum to Ron Rager (Washington Group) from Gary Stoopes (Aurora Technical Services), Los Alamos, New Mexico. (Stoopes 2003, 76089)

76090 Sagez, K., August 2003. Record of communication to D. Salazar (FWO-WFM) from K. Sagez (WGII), Los Alamos, New Mexico. (Sagez 2003, 76090)

76095 Sagez, K., September 2003. Record of communication to W. Moss (FWO-WFM) from K. Sagez (WGII) regarding summary of waste at TA-21, Los Alamos, New Mexico. (Sagez 2003, 76095)

82288 EPA (US Environmental Protection Agency), March 31, 1996. "Use of the Area of Contamination (AOC) Concept During RCRA Cleanups," memorandum from Michael Shapiro, Director of Office of Solid Waste, and Stephen D. Luftig, Director of Office of Emergency Response, to RCRA Branch Chiefs and CERCLA Regional Managers, Washington, D.C. (EPA 1996, 82288)

82913 Reneau, S.L., J.N. Gardner, A. Lavine, E.V. McDonald, C. Lewis, D. Katzman, G. WoldGabriel, D. Krier, D. Bergfelt, and J. Heikoop, 2002. "Paleoseismic Investigation of Trench EOC-2, Pajarito Fault Zone, Los Alamos National Laboratory, New Mexico," Los Alamos National Laboratory report LA-13939-MS, Los Alamos, New Mexico. (Reneau et al. 2002, 82913)

83860 EPA (US Environmental Protection Agency), April 2001. "Improving Sampling, Analysis, and Data Management for Site Investigation and Cleanup," EPA Office of Solid Waste and EM, report EPA-542-F-01-030A. (EPA 2001, 83860)

83861 Crumbling, D.M., 2001. "Current Perspectives in Site Remediation and Monitoring: Using the Triad Approach to Improve the Cost-Effectiveness of Hazardous Waste Site Cleanups," EPA 542-R-01-016. (Crumbling 2001, 83861)

83862 Thavoris, I., 2001. "Geophysical Survey of MDA B Waste Disposal Site at DP Mesa, Los Alamos, NM," unpublished MS thesis, University of Texas at Dallas, Dallas, Texas, 128 pp. (Thavoris 2001, 83862.1)

87047 DOE (US Department of Energy), November 26, 2003. "New Categorization of Existing Nuclear Facilities at LANL," memorandum from Christopher M. Steele, Senior Authorization Basis Manager, DOE-LASO, to Jim Holt, Associate Laboratory Director of Operations, Los Alamos National Laboratory, Los Alamos, New Mexico. (DOE 2003, 87047)