

9.0

References



9.0

References

Chapter 1

DOE (U.S. Department of Energy), 1999, *Record of Decision Idaho Nuclear Technology and Engineering Center Operable Unit 3-13, Idaho National Engineering and Environmental Laboratory, Idaho Falls, Idaho*, DOE/ID-10660, Idaho Operations Office, Idaho Falls, Idaho, October.

Kelly, K. B., 1999, State of Idaho, Office of Attorney General, Boise, Idaho, letter to B. Bowhan, U.S. Department of Energy, Idaho Operations Office, Idaho Falls, Idaho, transmitting "Third Modification to Consent Order," Idaho Code §39-4413, April 20.

USDC (U.S. District Court for the District of Idaho), 1995, Public Service Company of Colorado v. Philip E. Batt, Civil No. 91-0035-S-EJL (Lead Case), Consent Order, October 17.

Chapter 2

Abraham, S., 2002a, U.S. Department of Energy, letter to the President, The White House, Washington D.C., February 14.

Abraham, S., 2002b, U.S. Department of Energy, memorandum for J. Roberson, Assistant Secretary, Office of Environmental Management, "Environmental Management Review Action Items," February 4.

Bush, G.W., 2002, President, letter to the Speaker of the House of Representatives and the President of the Senate, Washington D.C., February 15.

Cory, W. N., Idaho Department of Health and Welfare, Division of Environmental Quality, Boise, Idaho, 1998, letter to J. M. Wilcynski, U.S. Department of Energy, Idaho Operations Office, Idaho Falls, Idaho and C. C. Clarke, U.S. Environmental Protection Agency, Seattle, Washington, transmitting, "Second Modification to Consent Order," Idaho Code, §39-4413, August 18.

Davison, R. L., 1998 "Meeting Minutes for the INTEC Service Wastewater System (SWS) Discharge Options Evaluation - RLD-13-98," Lockheed Martin Idaho Technologies Company, Idaho Falls, Idaho, December 7.

DOE (U.S. Department of Energy), 1982a, *Final Environmental Impact Statement, Defense Waste Processing Facility, Savannah River Plant, Aiken, SC*, DOE/EIS-0082, Assistant Secretary for Defense Programs, Office of Defense Waste and Byproducts Management, Savannah River Plant, Aiken, South Carolina.

DOE (U.S. Department of Energy), 1982b, *Environmental Assessment, Waste Form Selection for Savannah River Plant High-Level Waste*, DOE/EA-0179, Savannah River Plant, Aiken, South Carolina.

DOE (U.S. Department of Energy), 1985, *An Evaluation of Commercial Repository Capacity for the Disposal of Defense High-Level Waste*, DOE/DP-0020-1, U.S. Department of Energy, Assistant Secretary for Defense Programs, June.

- DOE (U.S. Department of Energy), 1992, "ACTION: A Decision on Phaseout of Reprocessing at the Savannah River Site (SRS) and the Idaho National Engineering Laboratory (INEL) is Required," memorandum to the Secretary of Energy from Assistant Secretary for Defense Programs, Washington, D.C., April 28.
- DOE (U.S. Department of Energy), 1994, *Final Supplemental Environmental Impact Statement, Defense Waste Processing Facility*, DOE/EIS-0082-S, DOE, Savannah River Site, Aiken, South Carolina.
- DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.
- DOE (U.S. Department of Energy), 1996a, *Industrial Wastewater Closure Plan for F- and H-Area High-Level Waste Tanks Systems, Savannah River Site*, Construction Permit Numbers 14,338, 14,520, 17,424-IW, Revision 1, Savannah River Operations Office, Aiken, South Carolina.
- DOE (U.S. Department of Energy), 1996b, *Final Environmental Impact Statement, Tank Waste Remediation System, Hanford Site, Richland, Washington*, DOE/EIS-0189, Richland Operations Office, Richland, Washington.
- DOE (U.S. Department of Energy), 1996c, *Draft Environmental Impact Statement for Completion of the West Valley Demonstration Project and Closure or Long-Term Management of Facilities at the Western New York Nuclear Service Center*, Volumes 1 and 2, DOE/EIS-0226, U.S. Department of Energy, West Valley, New York, January.
- DOE (U.S. Department of Energy), 1996d, *Waste Acceptance Product Specifications for Vitrified High-Level Waste Forms (WAPS)*, DOE/EM-WAPS, Revision 2, DOE, Office of Environmental Management, Germantown, Maryland, December.
- DOE (U.S. Department of Energy), 1997a, *Idaho National Engineering and Environmental Laboratory Comprehensive Facility and Land Use Plan*, DOE/ID-10514, Idaho Operations Office, Idaho Falls, Idaho, December.
- DOE (U.S. Department of Energy), 1997b, *Final Waste Management Programmatic Environmental Impact Statement for Managing Treatment, Storage, and Disposal of Radioactive and Hazardous Waste*, DOE/EIS-0200-F, U.S. Department of Energy, Office of Environmental Management, Washington, D.C., May.
- DOE (U.S. Department of Energy), 1997c, *West Valley Demonstration Project High-Level Waste Tanks Status*, Presentation by T. Rowland DOE-WV and D. Westcott, WVNS at Tank Closure Workshop, Salt Lake City, Utah, October 7.
- DOE (U.S. Department of Energy), 1997d, *The Waste Isolation Pilot Plant Disposal Phase Final Supplemental EIS*, DOE/EIS-0026-FS, U.S. Department of Energy, Office of Environmental Restoration and Waste Management, Washington, D.C.
- DOE (U.S. Department of Energy), 1997e, *Comprehensive RI/FS for the Idaho Chemical Processing Plant OU3-13 at the INEEL - Part B, FS Report (Final)*, DOE/ID-10572, Idaho Operations Office, Idaho Falls, Idaho, November.

References

- DOE (U.S. Department of Energy), 1998a, *Annual Update, Idaho National Engineering and Environmental Laboratory Site Treatment Plan*, DOE/ID-10493, Revision 8, Idaho Operations Office, Idaho Falls, Idaho, October 31.
- DOE (U.S. Department of Energy), 1998b, *Supplement Analysis for the Tank Waste Remediation System*, DOE/EIS-0189, SA2, U.S. Department of Energy, Richland Operations, Richland, Washington, May.
- DOE (U.S. Department of Energy), 1998c, *High-Level Waste and Facilities Disposition Environmental Impact Statement Scoping Activity Report*, DOE-ID-10617, U.S. Department of Energy - Idaho Operations Office, HLW EIS Project Office, Idaho Falls, Idaho, January.
- DOE (U.S. Department of Energy), 1998d, *Accelerating Cleanup: Paths to Closure*, DOE/EM-0362, Office of Environmental Management, Washington, D.C., **June**.
- DOE (U.S. Department of Energy), 1999a, *Radioactive Waste Management*, DOE O 435.1 and M 435.1-1, Office of Environmental Management, Washington D.C., July 9.
- DOE (U.S. Department of Energy), 1999b, DOE News Release "INEEL Tests New Tank Closure Technology," Idaho Operations Office, Idaho Falls, Idaho, June 22.
- DOE (U.S. Department of Energy), 1999c, *Civilian Radioactive Waste Management System Waste Acceptance Systems Requirements Document*, DOE/RW-0351, Revision 3, Office of Civilian Radioactive Waste Management, Washington D.C., April.
- DOE (U.S. Department of Energy), 1999d, *Final Record of Decision Idaho Nuclear Technology and Engineering Center Operable Unit 3-13, Idaho National Engineering and Environmental Laboratory, Idaho Falls, Idaho*, DOE/ID-10660, Revision 0, Idaho Operations Office, Idaho Falls, Idaho, October.
- DOE (U.S. Department of Energy), 1999e, *Advanced Mixed Waste Treatment Project Final Environmental Impact Statement*, DOE/EIS-0290, U.S. Department of Energy, Office of Environmental Management, Washington, D.C., January.
- DOE (U.S. Department of Energy), 2000a, Idaho Nuclear Technology and Engineering Center Safety Analysis Report, Facility-Specific Safety Analysis 104, The First Calcined Solids Storage Facility, Idaho Operations Office, Idaho Falls, Idaho, May 30.**
- DOE (U.S. Department of Energy), 2000b, Final Environmental Impact Statement for the Treatment and Management of Sodium-Bonded Spent Nuclear Fuel, DOE/EIS-0306, Office of Nuclear Energy, Science and Technology, Washington D.C., July.**
- DOE (U.S. Department of Energy), 2000c, Final Programmatic Environmental Impact Statement for Accomplishing Expanded Civilian Nuclear Energy Research and Development and Isotope Production Missions in the United States, Including the Role of the Fast Flux Test Facility, DOE/EIS-0310, Office of Nuclear Energy, Science, and Technology, Washington D.C., December.**
- DOE (U.S. Department of Energy), 2000d, Cost Analysis of Alternatives for the Idaho High-Level Waste and Facilities Disposition Environmental Impact Statement, DOE/ID 10702, Idaho Operations Office, Idaho Falls, Idaho, January.**
- DOE (U.S. Department of Energy), **2002a, Final Environmental Impact Statement for the Disposal of Spent Nuclear Fuel and High-Level Radioactive Waste at Yucca Mountain, Nye County, Nevada**, DOE/EIS-0250, Office of Civilian Radioactive Waste Management, Las Vegas, Nevada, **available online http://www.ymp.gov/documents/feis_a/index.htm.**

DOE (U.S. Department of Energy), 2002b, Savannah River Site High-Level Waste Tank Closure Final Environmental Impact Statement, DOE/EIS-0303, Savannah River Operations Office, Aiken, South Carolina, May.

DOI (U.S. Department of the Interior), 2000, "Craters of the Moon National Monument Boundary Enlargement," available online <http://www.id.blm.gov/craters/map.htm>, November 8.

Kelly, K. B., 1999, State of Idaho, Office of Attorney General, Boise, Idaho, letter to B. Bowhan, U.S. Department of Energy, Idaho Operations Office, Idaho Falls, Idaho, transmitting "Third Modification to Consent Order," Idaho Code §39-4413, April 20.

Knecht, D. A., J. H. Valentine, A. J. Luptak, M. D. Staiger, H. H. Loo, T. L. Wichmann, 1999, *Options for Determining Equivalent MTHM for DOE High-Level Waste*, INEEL/EXT-99-00317, Revision 1, Lockheed Martin Idaho Technologies Company, Idaho Falls, Idaho, April.

LITCO (Lockheed Idaho Technologies Company), 1995, *ICPP Radioactive Liquid and Calcine Waste Technologies Evaluation Final Report and Recommendation*, INEL-94/0119, LITCO, Idaho Falls, Idaho.

LMITCO (Lockheed Martin Idaho Technologies Company), 1996, *High-Level Waste Alternatives Evaluation*, WBP-29-96, LMITCO, Idaho Falls, Idaho.

LMITCO (Lockheed Martin Idaho Technologies Company), 1997, *Alternative Calcination Development Status Report*, INEEL/EXT-97-00654, R. D. Boardman, LMITCO, Idaho Falls, Idaho.

Monson, B., 1992, Idaho Division of Environmental Quality, Acting Chief, Operating Permit Bureau, Boise, Idaho, letter to R. Rothman, U.S. Department of Energy, Idaho Field Office, transmitting "Copy of Signed INEL Consent Order," April 7.

NAS (National Academy of Sciences), 1999, Alternative High-Level Waste Treatments at the Idaho National Engineering and Environmental Laboratory, National Academy Press, Washington, D.C.

Richardson, B., 1999a, U.S. Department of Energy, letter to J. Warner, Chairman, Committee on Armed Services, United States Senate, Washington D. C., February 19.

Richardson, B., 1999b, U.S. Department of Energy, letter to F. Spence, Chairman, Committee on Armed Services, U.S. House of Representatives, Washington D. C., March 31.

Richardson, B., 1999c, U.S. Department of Energy, letter to F. Spence, Chairman, Committee on Armed Services, U.S. House of Representatives, Washington D. C., July 2.

Rodriguez, R. R., A. L. Shafer, J. McCarthy, P. Martian, D. E. Burns, D. E. Raunig, N. A. Burch, R. L. Van Horn, 1997, *Comprehensive RI/FS for the Idaho Chemical Processing Plant OU 3-13 at the INEEL—Part A, RI/BRA Report (Final)*, DOE/ID-10534, U.S. Department of Energy, Idaho Falls, Idaho, November.

TFA (Tanks Focus Area), 2000, Assessment of Selected Technologies for the Treatment of Idaho Tank Waste and Calcine, PNNL-13268, Pacific Northwest National Laboratory, Richland, Washington, July.

TFA (Tanks Focus Area), 2001, Technical Review of the Applicability of the Studsvik, Inc. Thor™ Process to INEEL SBW, TFA-0101, Pacific Northwest National Laboratory, Richland, Washington, March.

References

- TRW (TRW Environmental Safety Systems, Inc.), 1997, *Mined Geologic Disposal System Disposal Criteria*, B00000000-01717-4600-00095, Revision 00, Las Vegas, Nevada, September.
- USDC (U.S. District Court for the District of Idaho), 1995, *Public Service Company of Colorado v. Philip E. Batt*, Civil No. 91-0035-S-EJL (Lead Case), Consent Order, October 17.
- WGA (Western Governor's Association), 1996, "Implementation of the National Environmental Policy Act," Resolution 96-005, June 24.

Chapter 3

- DOE (U.S. Department of Energy), 1996a, *Waste Acceptance Product Specifications for Vitrified High-Level Waste Forms*, EM-WAPS, DOE/EM-0093, Revision 2, U.S. Department of Energy, Office of Environmental Management, December.
- DOE (U.S. Department of Energy), 1996b, *Tank Waste Remediation System, Hanford Site, Richland, Washington, Final Environmental Impact Statement*, DOE/EIS-0189, Richland Operations Office, Richland, Washington, August.
- DOE (U.S. Department of Energy), 1997, *INEEL Comprehensive Facility and Land Use Plan* (DOE-ID-10514), U.S. Department of Energy Idaho Operations Office, Idaho Falls, Idaho, December.
- DOE (U.S. Department of Energy), 1998a, Annual Update, *Idaho National Engineering and Environmental Laboratory Site Treatment Plan*, Revision 8, U.S. Department of Energy, Idaho Operations Office, Idaho Falls, October 31.
- DOE (U.S. Department of Energy), 1998b, *Accelerating Cleanup: Paths to Closure*, DOE/EM-0362, U.S. Department of Energy, Office of Environmental Management, Washington D. C., June.
- DOE (U.S. Department of Energy), 1999, *Civilian Radioactive Waste Management System Waste Acceptance System Requirements Document*, DOE/RW-0351, Revision 3C, U.S. Department of Energy, Office of Civilian Radioactive Waste Management, March.
- EPA (U.S. Environmental Protection Agency), 1998, "Risk-Based Clean Closure," internal memorandum from E. Cotsworth to EPA RCRA Senior Policy Advisors, Region I-X, March 16.
- Harrell, D., 1999, Lockheed Martin Idaho Technologies Company, "Record of Sub-committee action on Facility disposition table 3-22 of the PDEIS, during the PDEIS Idaho High Level Waste and Facilities Disposition Environmental Impact Statement Internal Review," memorandum to J. Beck, Lockheed Martin Idaho Technologies Corporation, Idaho Falls, Idaho, February 22.
- Jacobs (Jacobs Engineering Group), 1998, *Hanford Site Option for Direct Vitrification of Sodium-Bearing Waste and Newly-Generated Liquid Waste*, Jacobs Engineering Group, Inc., Richland, Washington, November.
- Murphy J., and K. Krivanek, 1998, *Reexamination of EM Integration Documentation Planning to the Use of SRS and/or WVDP Treatment Facilities for INTEC HLW*, Lockheed Martin Idaho Technologies Company, Idaho Falls, Idaho.

NRC (U.S. Nuclear Regulatory Commission), 1994, *Branch Technical Position on Performance Assessment for Low-Level Disposal Facilities*, Washington, D.C.

Seitz, R., 2002, *personal communication, "Control Account Plan," facsimile addressed to J. Beck, Bechtel BWXT Idaho, LLC, March 28.*

Sullivan, D. W., 2002, "FW: West Valley," *electronic message to R. J. Kimmel, Idaho Operations Office, May 21.*

WHC (Westinghouse Hanford Company), 1993, *Performance Assessment of Grouted Double Shell Tank Waste Disposal at Hanford*, WHC-SD-WM-EE-004, Westinghouse Hanford Company, Richland, Washington, October.

Wichmann, T. L., 1998, U.S. Department of Energy, "Revisions to the Facilities Disposition Alternatives List for the Idaho HLW & FD EIS," letter to S. Connor, Tetra Tech NUS, Aiken, South Carolina, December 9.

Chapter 4

4.1 INTRODUCTION

DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.

4.2 LAND USE

Clinton, W. J., 2000, "Boundary Enlargement of the Craters of the Moon National Monument," *The White House, Office of the Press Secretary, Washington, D.C., November 9.*

DOE (U.S. Department of Energy Idaho Operations Office), 1993, *Idaho National Engineering Laboratory Long-Term Land Use Future Scenarios*, DOE/ID-10440, Revision 1, U.S. Department of Energy, Idaho Falls, Idaho, June.

DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.

DOE (U.S. Department of Energy), 1997, *Idaho National Engineering and Environmental Laboratory Comprehensive Facility and Land Use Plan*, DOE/ID-10514, (Approval Letter # OPE-OIM-99-028, July 19, 1999), Idaho Operations Office, Idaho Falls, Idaho, December.

DOI (U.S. Department of the Interior), 2000, "Craters of the Moon National Monument Boundary Enlargement," available online <http://www.id.blm.gov/craters/map.htm>, November 8.

Peterson, P. M., 1995, "1995 Reconciliation of INEL Land," prepared for the U.S. Department of Energy, Idaho Operations Office.

References

4.3 SOCIOECONOMICS

AHA (American Hospital Association), 1995, *The AHA Guide to the Health Care Field*, American Hospital Association, Chicago, Illinois.

AMA (American Medical Association), 1996, *1995/96 Physician Characteristics and Distribution in the U.S.*, American Medical Association, Chicago, Illinois, pp. 256-7.

BEA (Bureau of Economic Analysis), 1997, *REIS - Regional Economic Information System 1969-95 (CD-ROM)*, U.S. Department of Commerce, Economics and Statistics Administration, Bureau of Economic Analysis, Washington, D.C.

BLS (Bureau of Labor Statistics), 1997, *1990 - 1996 Annual Average Labor Force Data*, U.S. Bureau of Labor Statistics, Local Area Unemployment Statistics Division, Washington, D.C.

BLS (Bureau of Labor Statistics), 2002, Local Area Unemployment Statistics, U.S. Bureau of Labor Statistics, Local Area Unemployment Statistics Division, Washington, D.C.

DOC (U.S. Department of Commerce), 1997a, *Estimates of the Population of Counties and Demographic Components of Population Change: Annual Time Series, July 1, 1990 to July 1, 1996*, CO-96-8, Economics and Statistics Administration, Bureau of the Census, Washington, D.C.

DOC (U.S. Department of Commerce), 1997b, *Estimates of the Population of Places: Annual Time Series, July 1, 1991 to July 1, 1996*, SU-96-7, Economics and Statistics Administration, Bureau of the Census, Washington, D.C.

DOC (U.S. Department of Commerce), 2000a, Race and Hispanic or Latino: 2000. Census 2000 Redistricting Data (Public Law 94-171) Summary File: Idaho - County, Economics and Statistics Division, Bureau of the Census, Washington, D.C.

DOC (U.S. Department of Commerce), 2000b, DP-1. Profile of General Demographic Characteristics: 2000. Census 2000 Summary File 1 (SF1) 100-Percent Data, Economics and Statistics Division, Bureau of the Census, Washington, D.C.

DOC (U.S. Department of Commerce), 2000c, QT-H1. General Housing Characteristics: 2000. Census 2000 Summary File (SF1) 100-Percent Data, Economics and Statistics Division, Bureau of the Census, Washington, D.C.

DOC (U.S. Department of Commerce), 2000d, GCT-H5. General Housing Characteristics: 2000. Census 2000 Summary File (SF1) 100-Percent Data, Economics and Statistics Division, Bureau of the Census, Washington, D.C.

DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.

DOE (U.S. Department of Energy), 1999, *Impacts 1998, Idaho National Engineering and Environmental Laboratory*, Idaho Falls, Idaho, February.

DOE (U.S. Department of Energy), 2001, Impacts 2001, Idaho National Engineering and Environmental Laboratory, Idaho Falls, Idaho.

DOJ (U.S. Department of Justice), 1996, *Crime in the United States, 1995 - Uniform Crime Reports*, Federal Bureau of Investigation, Washington, D.C. pp. 296, 927, and 357.

McCammon, C., 1999, U.S. Department of Energy, Idaho Falls, Idaho, "INEEL Employment History", personal communication with D. E. Kennemore, Tetra Tech NUS, Aiken, South Carolina, February 25.

4.4 CULTURAL RESOURCES

Arrowrock Group, Inc., 1998, *Idaho National Engineering and Environmental Laboratory: Historical Context and Assessment, Narrative, and Inventory*, INEEL/EXT-97-01021, Idaho Falls, Idaho.

Braun, J. B., 1998, Lockheed Martin Idaho Technologies Company, Idaho Falls, Idaho, personal communication with M. J. Spry, Portage Environmental, Inc., Idaho Falls, Idaho, May 28.

DOE (U.S. Department of Energy), 1998, "Agreement In Principle Between the Shoshone-Bannock Tribes and the United States Department of Energy," Idaho Operations Office, Idaho Falls, Idaho, August 6.

Miller, S. J., 1995, *Idaho National Engineering Laboratory Management Plan for Cultural Resources* (Final Draft), DOE/ID-10361, Revision 1, Idaho Operations Office, Idaho Falls, Idaho, July.

Murphy, R. F. and Y. Murphy, 1986, "Northern Shoshone and Bannock," in *Handbook of North American Indians*, Volume 11, W. C. Sturtevant, general ed., Smithsonian Institution, Washington, D.C.

Pace, B. R., 1998, Lockheed Martin Idaho Technologies Company, Idaho Falls, Idaho, personal communication with M. J. Spry, Portage Environmental, Inc., Idaho Falls, Idaho, May 27.

Ringe, B. L., 1995, *Locational Analysis and Preliminary Predictive Model for Prehistoric Cultural Resources on the INEL*, M. A. Thesis, Department of Anthropology, Idaho State University, Pocatello, Idaho.

Turner, A. C., R. N. Holmer, and W. G. Reed, 1986, "The Shoshone-Bannock Cultural History Project Current Status," a paper presented at the Annual Conference of the Western Social Science Association at Reno, Nevada, Idaho State University, Pocatello, Idaho, April, pp. 16 and 19.

Yupe, D., 1998, Shoshone-Bannock Heritage Tribal Office/Cultural Resources, Idaho Falls, personal communication with M. J. Spry, Portage Environmental, Inc., Idaho Falls, Idaho, June.

4.5 AESTHETIC AND SCENIC RESOURCES

BLM (Bureau of Land Management), 1984, *Medicine Lodge Resource Management Plan Environmental Impact Statement, Draft*, U.S. Department of Interior, Idaho Falls District, Idaho Falls, Idaho.

BLM (Bureau of Land Management), 1986a, *Visual Resource Contrast Rating*, BLM Manual Handbook 8431-1, January.

BLM (Bureau of Land Management), 1986b, *Final Environmental Impact Statement Eastern Idaho Wilderness Study*, U.S. Department of Interior, Idaho Falls District, Idaho Falls, Idaho.

DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.

References

4.6 GEOLOGY AND SOILS

- Anders, M. H., J. W. Geissman, L. A. Piety, and J. T. Sullivan, 1989, "Parabolic Distribution of Circumeastern Snake River Plain Seismicity and Latest Quaternary faulting: Migratory Pattern and Association with the Yellowstone Hotspot", *Journal of Geophysical Research*, V. 94, No. B2, pp. 1589-1621, February.
- DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.
- DOE (U.S. Department of Energy), 1998, *DOE-ID Architectural and Engineering Standards Manual*, available online <http://www.inel.gov/publicdocuments/doe/archeng-standards>, December 4.
- DOE (U.S. Department of Energy), 2002, *Natural Phenomena Hazards Design and Evaluation Criteria for Department of Energy Facilities*, DOE-STD-1020-2002, January.
- Doherty, D. J., 1979a, *Drilling Data from Exploration Well 1, NE 1/4, sec. 22, T.2N., R.32E., Bingham County, Idaho*, Open-File Report 79-1225, U.S. Geological Survey, Idaho Falls, Idaho, 1 sheet.
- Doherty, D. J., 1979b, *Drilling Data from Exploration Well 2-2A, NW 1/4, sec. 15, T.5N., R.31E., Idaho National Engineering Laboratory, Butte County, Idaho*, Open-File Report 79-851, U.S. Geological Survey, Idaho Falls, Idaho, 1 sheet.
- Doherty, D. J., L. A. McBroome, M. A. Kuntz, 1979, *Preliminary Geologic Interpretation and Lithologic Log of the Exploratory Geothermal Test Well (INEL-1), Idaho National Engineering Laboratory, Eastern Snake River Plain, Idaho*, Open-File Report 79-1248, U.S. Geological Survey, Idaho Falls, Idaho.
- Guenzler, R. C. and V. W. Gorman, 1985, "The Borak Peak Idaho Earthquake of October 28, 1983 - Industrial Facilities and Equipment at INEL," in *Earthquake Spectra*, Volume 2, No. 1.
- Hackett, W. R. and L. A. Morgan, 1988, "Explosive Basaltic and Rhyolitic Volcanism of the Eastern Snake River Plain, Idaho", in *Guidebook to the Geology of Central and Southern Idaho*, P. K. Link and W. R. Hackett Editors, Idaho Geological Survey, Bull. 27, 283-301.
- Hackett, W. R. and R. P. Smith, 1992, "Quaternary Volcanism, Tectonics, and Sedimentation the Idaho National Engineering Laboratory Area," in J. R. Wilson (editor), *Field Guide to Geologic Excursions in Utah and Adjacent Areas of Nevada, Idaho, and Wyoming*, Miscellaneous Publication 92-3, Geological Society of America, Rocky Mountain Section, Ogden, Utah, pp. 1-18.
- Hackett, W. R. and R. P. Smith, 1994, *Volcanic Hazards of the Idaho National Engineering Laboratory and Adjacent Areas*, INEL-94/0276, Lockheed Idaho Technologies Company, Idaho Falls, Idaho, December.
- Jackson, S. M., 1985, "Acceleration Data from the 1983 Borah Peak, Idaho, Earthquake Recorded at the Idaho National Engineering Laboratory," in *Proceedings of Workshop XXVIII on the Borah Peak, Idaho, Earthquake*, R. S. Stein and R. C. Bucknam (eds.), Open-File Report 85-290, U.S. Geological Survey, Idaho Falls, Idaho, pp. 385-400.

- Jackson, S. M., I. G. Wong, G. S. Carpenter, D. M. Anderson, S. M. Martin, 1993, Contemporary Seismicity in the Eastern Snake River Plain, Idaho, Based on Microearthquake Monitoring, *Bulletin of the Seismological Society of America*, 83, 3, pp. 680-695.
- King, J. J., T. E. Doyle, S. M. Jackson, 1987, "Seismicity of the Eastern Snake River Plain Region, Idaho, Prior to the Borah Peak, Idaho Earthquake: October 1972 - October 1983," *Bulletin of the Seismological Society of America*, 77, 3, pp. 809-818.
- Kuntz, M. A., H. R. Covington, and L. J. Schorr, 1992, "An Overview of Basaltic Volcanism of the Eastern Snake River Plain, Idaho," in P. K. Link, M. A. Kuntz, L. B. Platt (editors), *Regional Geology of Eastern Idaho and Western Wyoming*, Memoir 179, Geological Society of America, Denver, Colorado, pp. 227-267.
- Kuntz, M. A., B. Skipp, M. A. Lanphere, W. E. Scott, K. L. Pierce, G. B. Dalrymple, D. E. Champion, G. F. Embree, W. R. Page, L. A. Morgan, R. P. Smith, W. R. Hackett, and D. W. Rodgers, 1994, "Geologic Map of the INEL and the Adjoining Areas, Eastern Idaho," U.S.G.S. Map I-2330, 1:100,000.
- Mitchell, J. C., L. L. Johnson, J. E. Anderson, 1980, *Geothermal Investigations in Idaho, Part 9, Potential for Direct Heat Application of Geothermal Resources*, Water Information Bulletin Number 30, Plate 1, Idaho Department of Water Resources, Boise, Idaho.
- Pelton, J. R., R. J. Vincent, N. J. Anderson, 1990, "Microearthquakes in the Middle Butte/East Butte Area, Eastern Snake River Plain, Idaho," *Bulletin of the Seismological Society of America*, 80, 1, pp. 209-212.
- Pierce, K. L. and L. A. Morgan, 1992, "The track of the Yellowstone hotspot: Volcanism, Faulting, and uplift," in *Regional Geology of Eastern Idaho and Western Wyoming*, P. K. Link, M. A. Kuntz, and L. B. Platt, editors, Geol. Soc. Am. Memoir 179, pp. 1-53.
- Rodriguez, R. R., A. L. Shafer, J. McCarthy, P. Martian, D. E. Burns, D. E. Raunig, N. A. Burch, R. L. Van Horn, 1997, *Comprehensive RI/FS for the Idaho Chemical Processing Plant OU 3-13 at the INEEL—Part A, RI/BRA Report (Final)*, DOE/ID-10534, U.S. Department of Energy, Idaho Falls, Idaho, November.
- Stickney, M. C. and M. J. Bartholomew, 1987, "Seismicity and Late Quaternary Faulting of the Northern Basin and Range Province, Montana and Idaho," *Bulletin of the Seismological Society of America*, Vol. 77, no. 5 pp. 1602-1625.
- VWG (Volcanism Working Group), 1990, *Assessment of Potential Volcanic Hazards for the New Production Reactor Site at the Idaho National Engineering Laboratory*, EGG-NPR 10624, EG&G Idaho, Inc., Idaho Falls, Idaho, October.
- WCC (Woodward-Clyde Consultants), 1990, *Earthquake Strong Ground Motion Estimates for the Idaho National Engineering Laboratory: Final Report; Volume I: Summary; Volume II: Methodology and Analyses; and Volume III: Appendices*, EGG-BG-9350, EG&G Idaho, Inc., Idaho Falls, Idaho, November.
- WCFS (Woodward-Clyde Federal Services), 1996, *Site-Specific Probabilistic Seismic Hazard Analyses for the Idaho National Engineering Laboratory*, Volume 1, Final Report and Volume 2, Appendix, INEL-95/0536, Lockheed Idaho Technologies Company, Idaho Falls, Idaho, May.

References

WCFS (Woodward-Clyde Federal Services), 1997, INEL Historical Seismicity Catalogue Update (electronic listing of earthquakes of magnitude 2.5 and greater from 1884 to 1995 within a 200-mile radius of INEEL, Idaho Falls, Idaho), January.

4.7 AIR RESOURCES

Abbott, M. L., N. L. Hampton, M. B. Heiser, K. N. Keck, R. E. Schindler, R. L. Van Horn, 1999, "Screening Level Risk Assessment for the New Waste Calcining Facility, INEEL/EXT-97-00686, Revision 5a, May.

Clawson, K. L., G. E. Start, N. R. Ricks, 1989, *Climatology of the Idaho National Engineering Laboratory, 2nd Edition*, DOE/ID-12118, U.S. Department of Commerce, National Oceanic and Atmospheric Administration, Environmental Research Laboratories, Air Resources Laboratory, Field Research Division, Idaho Falls, Idaho.

DEQ (Department of Environmental Quality), 2001a, IDAPA 58, Title 1, Chapter 1, Rules for the Control of Air Pollution in Idaho, Department of Environmental Quality, Boise, Idaho, available online <http://www.state.id.us/adm/adminrules/rules/idapa58/0101.pdf>.

DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.

DOE (U.S. Department of Energy), 1996, *1995 INEL National Emissions Standards for Hazardous Air Pollutants – Radionuclides*, DOE/ID-10342(95), Idaho Operations Office, Idaho Falls, Idaho, June.

DOE (U.S. Department of Energy), 1997a, *Idaho National Engineering and Environmental Laboratory Site Environmental Report for Calendar Year 1996*, DOE/ID-12082(96), Idaho Operations Office, Idaho Falls, Idaho, August.

DOE (U.S. Department of Energy), 1997b, *1996 INEEL National Emissions Standard for Hazardous Air Pollutants - Radionuclides*, DOE/ID-10342(96), Idaho Operations Office, Idaho Falls, Idaho, June.

DOE (U.S. Department of Energy), 1997c, *Air Emission Inventory for the Idaho National Engineering and Environmental Laboratory - 1996 Emissions*, DOE/ID-10594, U.S. Department of Energy, Idaho Operations Office, Idaho Falls, Idaho, June.

DOE (U.S. Department of Energy, Idaho Operations Office), 1998, *Air Emissions Inventory for the Idaho National Engineering and Environmental Laboratory – 1997 Emissions Report*, DOE/ID-10646, Idaho Falls, Idaho, June.

DOE (U.S. Department of Energy), 2000, 1999 INEEL National Emission Standards for Hazardous Air Pollutants - Radionuclides Annual Report, DOE/ID-10342(99), Idaho Operations Office, Idaho Falls, Idaho, June.

DOE (U.S. Department of Energy), 2001, National Emission Standards for Hazardous Air Pollutants - Calendar Year 2000 INEEL Report for Radionuclides, DOE/ID-10890, Idaho Operations Office, Idaho Falls, Idaho, June.

ESERP (Environmental Surveillance, Education and Research Program), 2002, Idaho National Engineering and Environmental Laboratory Site Environmental Report Calendar Year 1999, DOE/ID-12082 (99), April.

Lane, H. S., M. J. Case, C. S. Staley, 2000, Prevention of Significant Deterioration/Permit to Construct (PSD/PTC) Application for the INTEC CPP-606 Boilers, Idaho National Engineering and Environmental Laboratory, Bechtel BWXT Idaho, LLC, January.

Notar, J., 1998, U.S. Department of the Interior, National Park Service, Denver Regional Office, "Background Visual Range for Craters of the Moon National Monument, Visual Range from "IMPROVE" Fine Particle Sampler Program, 1992-1997," facsimile transmittal to D. A. Ryan, Ryan-Belanger Associates, San Diego, California, February 10.

Pruitt, J. I., 2002, Bechtel BWXT Idaho, LLC, personal communication with R. J. Kimmel, U.S. Department of Energy, Idaho Operations Office, "Reference Documentation," CCN 31643, April 12.

Rood, A. S., 2000, Final CALPUFF Model Results for CPP-606 Boiler PSD - ASR-02-2000, Idaho National Engineering and Environmental Laboratory, Interoffice Memorandum CCN 00-007544, to H.S. Lane, April 17.

Scire, J. S., D. G., Strimaitis, R. J. Yamartino, 1999, A User's Guide for the CALPUFF Dispersion Model, Version 5.0, Earth Tech Inc., Concord, MA 01742, available online <http://src.com/calpuff/calpuff1.htm>, October.

4.8 WATER RESOURCES

Barraclough, J. T., W. E. Teasdale, J. B. Robertson, R. G. Jensen, 1967, *Hydrology of the National Reactor Testing Station*, Idaho, 1996, U.S. Geological Survey Open-File Report, Waste Disposal and Processing, TFD-4500, IDO-22049, October.

Bartholomay, R. C., B. J. Tucker, D. J. Ackerman, and M. J. Liszewski, 1997, *Hydrologic Conditions and Distribution of Selected Radiochemical and Chemical Constituents in Water, Snake River Plain Aquifer, Idaho National Engineering Laboratory, Idaho, 1992 through 1995*, U.S. Geological Survey Water Investigations Report 97-4086, Idaho Falls, Idaho, April.

Berenbrock, C. and L. C. Kjelstrom, 1996, Estimated 100-Year Peak Flows and Flow Volumes in the Big Lost River and Birch Creek at the Idaho National Engineering Laboratory, Idaho, U.S. Geological Survey Water-Resources Investigation Report 96-4163, in cooperation with U.S. Department of Energy.

Berenbrock, C. and L. C. Kjelstrom, 1998, *Preliminary Water-Surface Elevations and Boundary of the 100-Year Peak Flow in the Big Lost River at the Idaho National Engineering and Environmental Laboratory, Idaho*, DOE/ID-22148, U.S. Geological Survey Water Resources Investigations Report 98-4065, Idaho Operations Office, Idaho Falls, Idaho.

Bhamidipaty, S., 1997, Plan of Study Big Lost River Diversion System, Department of the Army, Walla Walla District, Corps of Engineers, Walla Walla, Washington, June 17.

Cecil, L. D., T. M. Beasley, J. R. Pittman, R. L. Michel, P. W. Kubrik, P. Sharma, U. Fehn, H. E. Gove, 1992, "Water Infiltration Rates in the Unsaturated Zone at the Idaho National Engineering Laboratory Estimated from Chlorine-36 and Tritium Profiles, and Neutron Logging," in *Proceedings of the 7th International Symposium on Water-Rock Interaction*, Park City, Utah, July 13-18.

References

- DEQ (Department of Environmental Quality), 2001a, IDAPA 58, Title 1, Chapter 8, Rules for Public Drinking Water Systems, Department of Environmental Quality, Boise, Idaho, available online <http://www.state.id.us/adm/adminrules/rules/idapa58/0108.pdf>.**
- DEQ (Department of Environmental Quality), 2001b, IDAPA 58, Title 1, Chapter 17, Wastewater-Land Application Permit Rules, Department of Environmental Quality, Boise, Idaho, available online <http://www.state.id.us/adm/adminrules/rules/idapa58/0117.pdf>.**
- DOE (U.S. Department of Energy), 1993, "ICPP Well No. CPP-03" in *Well Fitness Evaluation for the INEL*, DOE/ID-10392, Volume 2 of 7, Idaho Operations Office, Idaho Falls, Idaho, June.
- DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.
- DOE (U.S. Department of Energy), 1996, Natural Phenomena Hazards Assessment Criteria, DOE-STD-1023-95, Change Notice #1, Office of Environment, Safety, and Health, Washington, D.C., January.**
- DOE (U.S. Department of Energy), 1997, *Idaho National Engineering and Environmental Laboratory Site Environmental Report for Calendar Year 1996*, DOE/ID-12082(96), Idaho Operations Office, Idaho Falls, Idaho, August.
- DOE (U.S. Department of Energy), 1998, *Idaho National Engineering and Environmental Laboratory Storm Water Pollution Prevention Plan for Industrial Activities*, DOE/ID-10431, Revision 30, Idaho Falls, Idaho, October.
- DOE (U.S. Department of Energy), 2001, 2000 Environmental Monitoring Program Report, INEEL/EXT-01-00447, Idaho Operations Office, Idaho Falls, Idaho, September.**
- DOE (U.S. Department of Energy), 2002a, Phase I Monitoring Well and Tracer Study Report for Operable Unit 3-13, Group 4, Perched Water (Draft), DOE/ID-10967 Revision 0, Draft, Idaho Operations Office, Idaho Falls, Idaho, January.**
- DOE (U.S. Department of Energy), 2002b, Annual INTEC Groundwater Monitoring Report for Group 5 - Snake River Plain Aquifer (2001), DOE/ID-10930 Revision 0, Idaho Operations Office, Idaho Falls, Idaho, February.**
- ESRF (Environmental Science and Research Foundation, Inc.), 1997, Idaho National Engineering and Environmental Laboratory Site Environmental Report for Calendar Year 1996, DOE/ID-12082(96), ESRF-018, Idaho Falls, Idaho, August.**
- Frederick, D. B., and G. S. Johnson, 1996, *Estimation of Hydraulic Properties and Development of a Layered Conceptual Model for the Snake River Plain Aquifer at the Idaho National Engineering Laboratory, Idaho*, Research Technical Completion Report, State of Idaho INEEL Oversight Program, Idaho Falls, Idaho and Idaho Water Resources Research Institute, University of Idaho, Moscow, Idaho, February.
- Garabedian, S. P., 1986, *Application of a Parameter-Estimation Technique to Modeling the Regional Aquifer Underlying the Eastern Snake River Plain, Idaho*, U.S. Geological Survey Water-Supply Paper 2278, Washington, D.C.

- Kaminsky, J. F., 1991, *In Situ Characterization of Unsaturated Hydraulic Properties of Surficial Sediments Adjacent to the Radioactive Waste management Complex, Idaho National Engineering Laboratory*, Idaho, master's thesis, ISU-91-000, Idaho State University, Pocatello, Idaho.
- Knobel, L. R., B. R. Orr, and L. DeWayne, 1992, "Summary of Background Concentrations of Selected Radiochemical and Chemical Constituents in Groundwater from the Snake River Plain Aquifer, Idaho: Estimated from an Analysis of Previously Published Data," *Journal of the Idaho Academy of Science*, Volume 28, Number 1, June.
- Koslow, K. N. and D. H. Van Haaften, 1986, *Flood Routing Analysis for a Failure of Mackay Dam*, EGG-EP-7184, EG&G Idaho, Inc., Idaho Falls, Idaho, June.
- LITCO (Lockheed Idaho Technologies Company), 1995, *Report of 1993/1994 Tank Farm Drilling and Sampling Investigation at the Idaho Chemical Processing Plant*, INEL-95/0064, Idaho Falls, Idaho, February.
- LMITCO (Lockheed Martin Idaho Technologies Company), 1997, *1996 LMITCO Environmental Monitoring Program Report for the Idaho National Engineering and Environmental Laboratory*, INEEL/EXT-97-0132(96), Idaho Falls, Idaho, September.
- LMITCO (Lockheed Martin Idaho Technologies Company), 1998, LMITCO Internal Report, Big Lost River Diversion Dike Foundation Investigation, INEEL/INT-98-0090, Idaho Falls, Idaho, February.**
- Mann, L. J., and T. M. Beasley, 1994, *Iodine-129 in the Snake River Plain Aquifer at and Near the Idaho National Engineering Laboratory, Idaho*, 1990-91, DOE/ID-22115, U.S. Geological Survey Water Resources Investigations Report 94-4053, Idaho Falls, Idaho, April.
- Mann, L. J., E. W. Crew, J. S. Morton, and R. B. Randolph, 1988, *Iodine-129 in the Snake River Plain Aquifer at the Idaho National Engineering Laboratory, Idaho*, DOE/ID-22076, U.S. Geological Survey Water Resources Investigations Report 88-4165, Idaho Falls, Idaho, September.
- Ostenaar, D. A., D. R. Levish, R. E. Klinger, and D. R. H. O'Connell, 1999, Phase 2 Paleohydrologic and Geomorphic Studies for the Assessment of Flood Risk for the Idaho National Engineering and Environmental Laboratory, Idaho, Report 99-7, Geophysics, Paleohydrology, and Seismotectonics Group, Technical Service Center, Bureau of Reclamation, Denver, Colorado, September 16.
- Orr, B. R. and L. D. Cecil, 1991, *Hydrologic Conditions and Distribution of Selected Chemical Constituents in Water, Snake River Plain Aquifer*, Idaho National Engineering Laboratory, Idaho, 1986 to 1988, U.S. Geological Survey Water-Resource Investigations Report 91-4047, DOE/ID-22096, Idaho Falls, Idaho, March.
- Robertson, J. B., R. Schoen, J. T. Barraclough, 1974, *The Influence of Liquid Waste Disposal on the Geochemistry of Water at the National Reactor Testing Station, Idaho: 1952-1970*, U.S. Geological Survey Open-File Report IDO-22053, Idaho Operations Office, Idaho Falls, Idaho, February.
- Rodriguez, R. R., A. L. Shafer, J. McCarthy, P. Martian, D. E. Burns, D. E. Raunig, N. A. Burch, and R. L. VanHorn, 1997, *Comprehensive RI/FS for the Idaho Chemical Processing Plant OU3-13 at the INEEL - Part A, RI/BRA Report (Final)*, DOE/ID-10534, U.S. Department of Energy, Idaho Falls, Idaho, November.

References

4.9 ECOLOGICAL RESOURCES

- Anderson, J. E., K. T. Ruppel, J. M. Glennon, K. E. Holte, R. C. Rope, 1996, *Plant Communities, Ethnoecology, and Flora of the Idaho National Engineering Laboratory*, ESRF-005, Environmental Science and Research Foundation, Idaho Falls, Idaho, p. 8.
- Arthur, W. J., J. W. Connelly, D. K. Halford, T. D. Reynolds, 1984, *Vertebrates of the Idaho National Engineering Laboratory*, DOE/ID-12099, Idaho Operations Office, Idaho Falls, Idaho, July.
- Blew, R. D. and K. C. Jones, 1998, "Planning and Irrigating Influence on Post-Fire Vegetation Recovery," In: Reynolds T. D., R. W. Warren and O. D. Markham, eds. Environmental Science and Research Foundation, Inc., Annual Technical Report to DOE-ID: Calendar Year 1997. ESRF-027, pp. 94-95. May.
- DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.
- ESRF (Environmental Science and Research Foundation, Inc.), 1999, "Plant Recovery After a Fire: Does Mother Nature Need Our Help?," Newsletter of the Environmental Science and Research Foundation, Inc., Volume 6, Issue 4, September.**
- ESRF (Environmental Science and Research Foundation, Inc.), 2000, "An Animal of the High Desert - Coyote", Newsletter of the Environmental Science and Research Foundation, Inc., Volume 7, Issue 1, March.**
- Idaho CDC (Idaho Conservation Data Center), 1997, *Species with Special Status in Idaho*, Idaho Department of Fish and Game, updated August.
- Lee, R.D., 2000, "1994-2000 Fire Map," INEEL Spatial Analysis Laboratory, Idaho Falls, Idaho, December 12.**
- Morris, R. C., 1993, *Radioecology of the Idaho National Engineering Laboratory*, Draft U.S. Department of Energy file report, Idaho Falls, Idaho, August 16.
- Patrick, S. and J. E. Anderson, 1997, "Fire Ecology of the Idaho National Engineering and Environmental Laboratory", In: R. C. Morris and R. D. Blew, eds., Environmental Science and Research Foundation, Inc., Annual Technical Report to DOE-ID; Calendar Year 1996, ESRF-017, pp. 144-145, June.
- Reynolds, T. D., J. W., Connelly, D. K. Halford, W. J. Arthur, 1986, "Vertebrate Fauna of the Idaho National Environmental Research Park," *Great Basin Naturalist*, 46, 3, pp. 513-527.
- Rodriguez, R. R., A. L. Shafer, J. McCarthy, P. Martian, D. E. Burns, D. E. Raunig, N. A. Burch, and R. L. VanHorn, 1997, *Comprehensive RI/FS for the Idaho Chemical Processing Plant OU3-13 at the INEEL - Part A, RI/BRA Report (Final)*, DOE/ID-10534, U.S. Department of Energy, Idaho Falls, Idaho, November.
- Rope, R. C., N. L. Hampton, K. A. Finely, 1993, "Ecological Resources," in Irving, J. S., *Environmental Resource Document for the Idaho National Engineering Laboratory*, Volumes 1 and 2, EGG-WMO-12079, EG&G Idaho, Inc., Idaho Falls, Idaho, July.

4.10 TRAFFIC AND TRANSPORTATION

- Anderson, M. E., 1998, *Traffic and Transportation*, Engineering Design File EIS-HLW-01, Science Applications International Corporation, Idaho Falls, Idaho.
- Beck, J. T., 1998, Lockheed Martin Idaho Technologies Company, personal communication with T. Enyeart, Jason Associates Corporation, regarding Fy-1997 Fleet Data for the INEEL, February.
- Beckett, T. H., 1998, Department of the Navy, Office of Naval Reactors, letter to W. R. Dixon, "Yucca Mountain Site Characterization Office," U.S. Department of Energy, November 23.
- Berry, B. G., 1998, Lockheed Martin Idaho Technologies Company, personal communication with J. T. Beck, Lockheed Martin Idaho Technologies Company, April 6.
- Compton, B. B., 1994, Idaho Department of Fish and Game, Pocatello, Idaho, personal communication with S. B. Enyeart, Science Applications International Corporation, Idaho Falls, Idaho, concerning reference for wildlife/train collisions contained in the Idaho Department of Fish and Game general files, December 5.
- DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.
- Glorig, A., 1965, *Audiometry: Principles and Practices*, Williams and Wilkins Company, Baltimore, Maryland.
- Golden, J., R. P. Duellente, S. Saari, and P. N. Cheremisinoff, 1980, *Environmental Impact Data Book*, Ann Arbor Science Publishers, Inc., Ann Arbor, Michigan.
- ITD (Idaho Transportation Department), 1997, *Idaho Traffic Accidents*, 1996, Office of Highway Safety, Boise, Idaho.
- Lehto, W. K., 1993, *Idaho National Engineering Laboratory Traffic and Transportation*, Engineering Design File ER&WM-EDF-0020-93, Revision 1, EG&G Idaho, Inc., Idaho Falls, Idaho, December 22.
- Leonard, P. R., 1993, Section 3.3, "INEL Noise," in Irving, J. S., *Environmental Resource Document for the Idaho National Engineering Laboratory*, Volume 1, EGG-WMO 10279, EG&G Idaho, Inc., Idaho Falls, Idaho, July.
- Morris, R., 1998, Science Applications International Corporation, personal communication with S. J. Maheras, Science Applications International Corporation, March 12 and March 18.
- Pruitt, J. I., 2002a, Bechtel BWXT Idaho, LLC, personal communication with R. J. Kimmel, U.S. Department of Energy, Idaho Operations Office, "Reference Documentation," CCN 31247, March 29.**
- Pruitt, J. I., 2002b, Bechtel BWXT Idaho, LLC, personal communication with R. J. Kimmel, U.S. Department of Energy, Idaho Operations Office, "Reference Documentation," CCN 31765, April 17.**

References

Saricks, C. L. and M. M. Tompkins, 1999, State-Level Accident Rates of Surface Freight Transportation: A Reexamination, ANL/ESD/TM-150, Argonne National Laboratory, Argonne, Illinois, April.

State of Idaho, 1996, Rural Traffic Flow Map, Idaho Transportation Department, Boise, Idaho.

State of Idaho, 1998, *Idaho State Rail Plan 1996*, Idaho Transportation Department, available online <http://www.state.id.us/itd/planning/reports/railplan/railfirst.html>, March 2.

Weiner, R. F., P. A. LaPlante, J. P. Hageman, 1991a, "An Approach to Assessing the Impacts of Incident-Free Transportation of Radioactive Materials: II. Highway Transportation," *Risk Analysis, Volume 11*, Number 4, pp. 661-666.

Weiner, R. F., P. A. LaPlante, J. P. Hageman, 1991b, "An Approach to Assessing the Impacts of Incident-Free Transportation of Radioactive Materials: I. Air Transportation," *Risk Analysis, Volume 11*, Number 4, pp. 655-660.

4.11 HEALTH AND SAFETY

DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.

DOE (U.S. Department of Energy), 2000, *DOE Occupational Radiation Exposure 1999 Report*, **DOE/EH-####**, Washington, D.C., available online <http://rem.s.eh.doe.gov>.

DOE (U.S. Department of Energy), 2001, *DOE Occupational Radiation Exposure 2000 Report*, **DOE/EH-####**, Washington, D.C., available online <http://rem.s.eh.doe.gov>.

DOE (U.S. Department of Energy), 1997, *DOE and Contractor Injury and Illness Experience By Year and Quarter 1992 Through 1997 3rd Quarter*, Washington, D.C.

EPA (U.S. Environmental Protection Agency), 1993, *Health Effects Assessment Summary Tables*, EPA 540-R-93-058, U.S. Environmental Protection Agency, Washington, D.C.

EPA (U.S. Environmental Protection Agency), 1994, *Integrated Risk Information System (IRIS) – Selected Chemicals*, Database, Washington, D.C.

ESERP (Environmental Surveillance, Education and Research Program), 2002, Idaho National Engineering and Environmental Laboratory Site Environmental Report Calendar Year 1999, DOE/ID-12082 (99), April.

ESRF (Environmental Science and Research Foundation, Inc), 1996, *Idaho National Engineering and Environmental Laboratory Site Environmental Report for Calendar Year 1995*, DOE/ID-12082 (95), ESRF-014, Environmental Science and Research Foundation, Inc., August.

ESRF (Environmental Science and Research Foundation, Inc), 1997, *Idaho National Engineering and Environmental Laboratory Site Environmental Report for Calendar Year 1996*, DOE/ID-12082 (96), ESRF-018, Environmental Science and Research Foundation, Inc., August.

LMITCO (Lockheed Martin Idaho Technologies Company), 1998, *Voluntary Protection Program Lockheed Martin Idaho Technologies Company*, available online <http://www.inel.gov/vpp>, Idaho Falls, Idaho.

LMITCO (Lockheed Martin Idaho Technologies Company), 1999, *Idaho National Engineering and Environmental Laboratory Program Description Document for INEEL Integrated Safety, Management System*, PDD-1004, Rev. 1, Idaho Falls, Idaho, March 12.

NCRP (National Council on Radiation Protection and Measurements), 1993, *Limitation of Exposure to Ionizing Radiation*, Report Number 116, Washington, D.C.

Pruitt, J. I., 2002, Bechtel BWXT Idaho, LLC, personal communication with R. J. Kimmel, U.S. Department of Energy, Idaho Operations Office, "Reference Documentation," CCN 31643, April 12.

4.12 ENVIRONMENTAL JUSTICE

CEQ (Council on Environmental Quality) 1997, *Environmental Justice Guidance Under the National Environmental Policy Act*, Executive Office of the President, Washington, D.C., December.

USBC (U.S. Bureau of Census), 1992, *1990 Census of Population and Housing*, U.S. Department of Commerce, Bureau of the Census, Washington, D.C.

USBC (U.S. Bureau of Census), 2000, 2000 Census of Population and Housing, U.S. Department of Commerce, Bureau of the Census, Washington, D.C.

4.13 UTILITIES AND ENERGY

DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.

Fossum, E. L., 2002, Bechtel BWXT Idaho, LLC, "utilities information," electronic message to J. D. Depperschmidt, U.S. Department of Energy, Idaho Operations Office, April 25.

4.14 WASTE AND MATERIALS

Barnes, C. M., 1999, *Process Assumption Description, Diagrams, and Calculations for P111 (Non-Separations Options, Sodium Bearing Waste Processed)*, INEEL-EXT-00323 (EDF-PDS-D-009), Rev. 1, February 3.

DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Idaho Operations Office, Idaho Falls, Idaho, April.

DOE (U.S. Department of Energy), 1996, *The 1996 Baseline Environmental Management Report, Volume II*, DOE/EM-0290, Office of Environmental Management, Washington, D.C., June.

DOE (U.S. Department of Energy), 1997a, *Annual Report of Waste Generation and Pollution Prevention Progress, 1996*, DOE/EM-0334, Office of Pollution Prevention, Office of Environmental Management, Washington, D.C., August.

References

- DOE (U.S. Department of Energy), 1997b, *Idaho National Engineering and Environmental Laboratory Pollution Prevention Plan*, U.S. Department of Energy, Idaho Operations Office, DOE/ID-10333(97), Idaho Operations Office, Idaho Falls, Idaho, May.
- DOE (U.S. Department of Energy), 1997c, *Final Waste Management Programmatic Environmental Impact Statement for Managing Treatment, Storage, and Disposal of Radioactive and Hazardous Waste*, DOE/EIS-0200-F, Volume IV of V, Appendix I (page I-38), U.S. Department of Energy, Office of Environmental Management, Washington, D.C., May.
- DOE (U.S. Department of Energy), 1998a, *Annual Update, Idaho National Engineering and Environmental Laboratory Site Treatment Plan*, DOE/ID 10493, Revision 8, Idaho Operations Office, Idaho Falls, Idaho, October 31.
- DOE (U.S. Department of Energy), 1998b, *Record of Decision for the Waste Isolation Pilot Plant Disposal Phase Final Supplemental Environmental Impact Statement (WIPP SEIS II)*, Carlsbad, New Mexico, January 16.
- DOE (U.S. Department of Energy), 1999, *Advanced Mixed Waste Treatment Project Final Environmental Impact Statement*, DOE/EIS-0290, Volume 1, U.S. Department of Energy, Office of Environmental Management, Idaho Operations Office, Idaho Falls, Idaho, January.
- DOE (U.S. Department of Energy), 2002, Idaho National Engineering and Environmental Laboratory Site Treatment Plan, Idaho Operations Office, Idaho Falls, Idaho, October 31, 2001 updated on March 18, 2002.**
- EG&G (EG&G Idaho, Inc.), 1993, *Projected INEL Waste Inventories, Engineering Design File*, ER&WM-EDF-0015-93, Revision 6a, Idaho Falls, Idaho, November 24.
- Pruitt, J. I., 2002a, Bechtel BWXT Idaho, LLC, personal communication with R. J. Kimmel, U.S. Department of Energy, Idaho Operations Office, "Reference Documentation," CCN 32049, April 26.**
- Pruitt, J. I., 2002b, Bechtel BWXT Idaho, LLC, personal communication with R. J. Kimmel, U.S. Department of Energy, Idaho Operations Office, "Reference Documentation," CCN 31405, April 4.**
- Seitz, R., 2002, personal communication, "Control Account Plan," facsimile addressed to J. Beck, Bechtel BWXT Idaho, LLC, March 28.**

Chapter 5

SECTION 5.1

- DOE (U.S. Department of Energy), 1993, *Recommendations for the Preparation of Environmental Assessments and Environmental Impact Statements*, Office of NEPA Oversight, Washington, D.C.

SECTION 5.2.1

- DOE (U.S. Department of Energy), 1996a, "Land and Facility Use Planning Policy," DOE P 430.1, DOE Office of Field Management, Washington, D.C.

DOE (U.S. Department of Energy), 1996b, *Draft Hanford Remedial Action Environmental Impact Statement and Comprehensive Land Use Plan*, DOE/EIS-0222D, Department of Energy, Washington, D.C., August.

DOE (U.S. Department of Energy), 1997, *INEEL Comprehensive Facility and Land Use Plan*, DOE/ID-10514, DOE Idaho Operations Office, Idaho Falls, Idaho, December.

Kiser, D. M., R. E. Johnson, N. E. Russell, J. Banaee, D. R. James, R. S. Turk, K. J. Holdren, G. K. Housley, H. K. Peterson, L. C. Seward, and T. G. McDonald, 1998, *Low-Level, Class A/C Waste, Near Surface Land Disposal Facility Feasibility Design Description*, INEEL/EXT-98-00051, Lockheed Martin Idaho Technologies Company, Idaho Falls, Idaho.

SECTION 5.2.2

BEA (U.S. Bureau of Economic Analysis) 1998, “Regional Economic Information System: 1969-1997,” [Online] Available <http://govinfo.kerr.orst.edu/reis-stateis.html>, August 11.

BEA (U.S. Bureau of Economic Analysis), **2000**, *Regional Input-Output Modeling Systems (RIMS II)*, RIMS II Viewer Beta Version 2, machine-readable regionalized input-output multipliers for the INEEL region of influence, U.S. Department of Commerce, Washington, D.C., **December 15**.

Beck, J. T., 1998, Lockheed Martin Idaho Technologies Company, personal communication with P. L. Young, Tetra Tech NUS, Aiken, South Carolina, October 20.

BLS (Bureau of Labor Statistics), 1997, 1990-1996 Annual Average Labor Force Data, U.S. Bureau of Labor Statistics, Local Area Unemployment Statistics Division, Washington, D.C.

BLS (Bureau of Labor Statistics), 2002, Local Area Unemployment Statistics, U.S. Bureau of Labor Statistics, Local Area Unemployment Statistics Division, Washington, D.C.

IDOL (Idaho Department of Labor), **2002**, “Covered Employment & Wages *or* ES-202 **Program**,” available **online** <http://www.labor.state.id.us/lmi/es202/202home.htm>, **May 28**.

McCammon, C., 1999, U.S. Department of Energy, Idaho Falls, Idaho, “INEEL Employment History,” personal communication with D. E. Kennemore, Tetra Tech NUS, Aiken, South Carolina, February 25.

SECTION 5.2.3

Chatters, J. C., 1989, *Hanford Cultural Resources Management Plan*, PNL-6942, Pacific Northwest Laboratory, Richland, Washington.

Ringe-Pace, B. L., 1998, *Summary of Cultural Resource Investigations on the Idaho National Engineering and Environmental Laboratory and in the Vicinity of the Radioactive Waste Management Complex*, INEEL Cultural Resources Management Office, Lockheed-Martin Idaho Technologies Company, January 23.

Yohe, R., 1995, “The implementation of Stop Work stipulations at INEEL,” personal communication with B. L. Ringe (Lockheed-Martin Idaho Technologies Co.), Idaho State Historical Preservation Office, Boise, Idaho, February 6.

References

SECTION 5.2.4

BLM (Bureau of Land Management), 1986, Visual Resource Inventory, BLM Manual Handbook 8410-1, U.S. Department of the Interior, Washington, D.C., January 17.

Kiser, D. M., R. E. Johnson, N. E. Russell, J. Banaee, D. R. James, R. S. Turk, K. J. Holdren, G. K. Housley, H. K. Peterson, L. C. Seward, and T. G. McDonald, 1998, *Low-Level, Class A/C Waste, Near Surface Land Disposal Facility Feasibility Design Description*, INEEL/EXT-98-00051, Lockheed Martin Idaho Technologies Company, Idaho Falls, Idaho.

SECTION 5.2.6

DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Washington, D.C., April

DOE (U.S. Department of Energy), 1998, *Air Emissions Inventory for the Idaho National Engineering and Environmental Laboratory - Emissions Report*, DOE/ID-10646, Idaho Falls, Idaho, June.

DOI (U.S. Department of the Interior, National Park Service), 1994, *Status of Air Quality and Effects of Atmospheric Pollutants on Ecosystems in the Pacific Northwest Region of the National Park Service*, Technical report NPS/NRAQD/NRTR-94/160, Denver, Colorado, November.

EPA (U.S. Environmental Protection Agency), 1995, *User's Guide for the Industrial Source Complex (ISC3) Dispersion Models*, "Volume I - User's Instructions," EPA-454/B-95-003a, Office of Air Quality Planning and Standards, Research Triangle Park, North Carolina, September.

EPA (U.S. Environmental Protection Agency), 1998, *Compilation of Air Pollution Emission Factors, Volume I: Stationary Point and Area Sources*, AP-42, (Fifth Edition, January 1995, with supplements through 1998), available online <http://www.epa.gov/ttn/chief/ap42c1.html>.

IDEQ (Idaho Department of Environmental Quality), 2001, IDAPA 58, Title 1, Chapter 1, Rules for the Control of Air Pollution in Idaho, Department of Environmental Quality, Boise, Idaho, available online <http://www.state.id.us/adm/adminrules/rules/idapa58/0101.pdf>.

Kimmitt, R. R., Lockheed Martin Idaho Technologies Company, 1998, *Engineering Design File*, "Air Pollution Abatement for the High-Level Waste Treatment Options," EDF-PDS-C-043, Revision 2, Idaho Falls, Idaho, December 17.

Napier, B. A., R. A. Peloquin, D. L. Strenge, J. V. Ramsdell, Pacific Northwest Laboratories, 1998, *GENII - The Hanford Radiation Dosimetry Software System, Volume 2, Users' Manual*, PNL-6584, November.

Rood, A. S., 2002, Assessment of Prevention of Significant Deterioration Increment Consumption in Class I Areas for the Planning Basis Option for the Treatment of High-Level Waste at the Idaho National Engineering and Environmental Laboratory, ASR-02-2002, Bechtel BWXT Idaho, LLC, Idaho Falls, Idaho, May 28.

Scire, J.S., D. G. Strimaitis, and R. J. Yamartino, 1999, A User's Guide for the CALPUFF Dispersion Model, Version 5.0, Earth Tech Inc., Concord, MA 01742, available online <http://src.com/calpuff/calpuff1.htm>, October.

STAPPA (State and Territorial Air Pollution Program Administrators) and ALAPCO (Association of Local Air Pollution Control Officials), 1996, *Controlling Particulate Matter Under the Clean Air Act: A Menu of Options*, Washington D.C., July.

USA (United States of America), 1997, "Chapter 3, Greenhouse Gas Inventory" in *The 1997 U.S. Climate Action Report*, submitted by the United States of America Under the United Nations Framework Convention on Climate Change, July.

USDA (U.S. Department of Agriculture), 1992, *Guidelines for Evaluating Air Pollution Impacts in Class I Wilderness Areas in California, General Technical Report PSW-GTR-136, Pacific Southwest Research Station, Albany, California, November.*

SECTION 5.2.7

Berenbrock, C. and L.C. Kjelstrom, 1998, *Preliminary Water-Surface Elevations and Boundary of the 100-Year Peak Flow in the Big Lost River at the Idaho National Engineering and Environmental Laboratory, Idaho*, DOE/ID-22148, U.S. Geological Survey Water-Resources Investigations Report 98-4065, U.S. Department of Energy, Idaho Falls, Idaho.

DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, Volumes 1 and 2, DOE/EIS-0203-F, Idaho Operations Office, Idaho Falls, Idaho, April.

DOE (U.S. Department of Energy), 1997, *Idaho National Engineering and Environmental Laboratory Nonradiological Information for 1996 and Record-to-Date*, DOE/ID-10057(96), Idaho Operations Office, Idaho Falls, Idaho.

DOE (U.S. Department of Energy) 1998a, *Idaho National Engineering and Environmental Laboratory Storm Water Pollution Prevention Plan for Construction Activities*, DOE/ID-10425, Revision 2, Idaho Falls, Idaho.

DOE (U.S. Department of Energy), 1998b, *Idaho National Engineering and Environmental Laboratory Storm Water Pollution Prevention Plan for Industrial Activities*, DOE/ID-10431, Revision 30, Idaho Falls, Idaho, October.

Fossum, E. L., 2002, *Bechtel BWXT Idaho, LLC, personal communication with J. D. Depperschmidt, U.S. Department of Energy, Idaho Operations Office, "Energy Usage Information," CCN 31887, April 22.*

Guymon, R.H., 2001, *Bechtel BWXT Idaho, LLC, Environmental Affairs, letter to K. Kelly, State of Idaho Department of Environmental Quality, "Response to Department of Environmental Quality Request for Additional Floodplain Information for the Idaho National Engineering and Environmental Laboratory," January 18.*

Koslow, K. N. and D. H. Van Haaften, 1986, *Flood Routing Analysis for a Failure of Mackay Dam*, EGG-EP-7184, EG&G Idaho, Inc., Idaho Falls, Idaho, June.

LMITCO (Lockheed Martin Idaho Technologies Company), 1998, *Lockheed Martin Idaho Technologies Company Storm Water Monitoring Program Plan*, EM-SW-PP-4, Idaho Falls, Idaho, January.

References

Rodriguez, R. R., A. L. Shafer, J. McCarthy, P. Martian, D. E. Burns, D. E. Raunig, N. A. Burch, and R. L. VanHorn, 1997, *Comprehensive RI/FS for the Idaho Chemical Processing Plant OU3-13 at the INEEL - Part A, RI/BRA Report (Final)*, DOE/ID-10534, U.S. Department of Energy, Idaho Falls, Idaho, November.

Teel, D. M., 1993, *Utilities and Energy, Engineering Design File ER&WM-EDF-0019-93, EG&G Idaho, Inc., Idaho Falls, Idaho, September 17.*

SECTION 5.2.8

Beyer, N., 1990, *Evaluating Soil Contamination*, USFWS Biological Report 90(2).

DOI (U.S. Department of the Interior, National Park Service), 1994, *Status of Air Quality and Effects of Atmospheric Pollutants on Ecosystems in the Pacific Northwest Region of the National Park Service*, Technical Report NPS/NRAQD/NRTR-94/160, Denver, Colorado, November.

Efroymson, R. A., M. E. Will, and G. W. Suter, 1997a, *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Soil Litter Invertebrates and Heterotrophic Processes*, 1997 Revision, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

Efroymson, R. A., M. E. Will, G. W. Suter, and A. C. Wooten, 1997b, *Toxicological Benchmarks for Screening Contaminants of Potential Concern for Effects on Terrestrial Plants*, 1997 Revision, Oak Ridge National Laboratory, Oak Ridge, Tennessee.

Ibrahim, S. A. and R. C. Morris, 1997, Distribution of plutonium among soil phases near a subsurface disposal Area in southeastern Idaho, USA, *Journal of Radioanalytical and Nuclear Chemistry* 226: 217-220.

Kiser, D. M. R. E. Johnson, N. E. Russell, J. Bangee, D. R. James, R. S. Turk, K. J. Holdren, G. K. Housely, H. K. Peterson, L. C. Seward, and T. G. McDonald, 1998, *Low-level, Class A/C Waste, Near Surface Land Disposal Facility Feasibility Design Description*, INEEL/EXT-98-00051, Lockheed Martin Idaho Technologies Company, Idaho Falls, Idaho.

MHSP&E (Ministry of Housing, Spatial Planning and Environment), 1994, *Intervention Values and Target Values – Soil Quality Standards*, Department of Soil Protection, The Hague, The Netherlands.

Morris, R. C., 1993, Radioecology of the Idaho National Engineering Laboratory, Draft U.S. Department of Energy file report, Idaho Falls, Idaho, August 16.

Rodriguez, R. R., A. L. Shafer, J. McCarthy, P. Martian, D. E. Burns, D. E. Raunig, N. A. Burch, and R. L. VanHorn, 1997, *Comprehensive RI/FS for the Idaho Chemical Processing Plant OU3-13 at the INEEL - Part A, RI/BRA Report (Final)*, DOE/ID-10534, U.S. Department of Energy, Idaho Operations Office, Idaho Falls, Idaho, November.

SECTION 5.2.9

- DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, Volumes 1 and 2, DOE/EIS-0203-F, Idaho Operations Office, Idaho Falls, Idaho, April.
- DOE (U.S. Department of Energy), 1997, *Final Waste Management Programmatic Environmental Impact Statement for Managing Treatment, Storage, and Disposal of Radioactive and Hazardous Waste*, DOE/EIS-0200-F, U.S. Department of Energy, Office of Environmental Management, Washington, D.C., May.
- Doty, S. R., B. L. Wallace, and G. C. Holzworth, 1976, *A Climatological Analysis of Pasquill Stability Categories Based on 'STAR' Summaries*, National Oceanic and Atmospheric Administration, National Climatic Data Center, Asheville, North Carolina, April.
- Fischer, L. E., C. K. Chou, M. A. Gerhard, C. Y. Kimura, R. W. Martin, R. W. Mensing, M. E. Mount, and M. C. Witte, 1987, *Shipping Container Response to Severe Highway and Railway Accident Conditions*, NUREG/CR-4829, Lawrence Livermore National Laboratory, Berkeley, California, February.
- ICRP (International Commission on Radiological Protection), 1991, "1990 Recommendations of the International Commission on Radiological Protection," ICRP Publication 60, Annals of the ICRP, Volume 21, Numbers 1-2, p. 153, Pergamon Press, Elmsford, New York.
- Johnson, P. E., D. S. Joy, D. B. Clarke, and J. M. Jacobi, 1993a, *HIGHWAY 3.1 - An Enhanced Transportation Routing Model: Program Description, Methodology, and Revised User's Manual*, ORNL/TM-12124, Oak Ridge National Laboratory, Oak Ridge, Tennessee, March.
- Johnson, P. E., D. S. Joy, D. B. Clarke, and J. M. Jacobi, 1993b, *Interline 5.0 An Expanded Railroad Routing Model: Program Description, Methodology, and Revised User's Manual*, ORNL/TM-12090, Oak Ridge National Laboratory, Oak Ridge, Tennessee, March.
- McSweeney, T. I., 1999, *HLW Release Fractions*, Internal memorandum to S. Ross, Battelle Memorial Institute, Columbus, OH, March 15.
- Neuhauser, K. S. and F. L. Kanipe, 1992, *RADTRAN 4, Volume 3, User Guide*, SAND89-2370, Sandia National Laboratories, Albuquerque, New Mexico, January.
- NRC (U.S. Nuclear Regulatory Commission), 1977, *Final Environmental Statement on the Transportation of Radioactive Material by Air and Other Modes*, NUREG-0170, U.S. Nuclear Regulatory Commission, Washington, D.C., December.
- Rao, R. K., E. L. Wilmot, and R. E. Luna, 1982, *Non-Radiological Impacts of Transporting Radioactive Material*, SAND81-1703, Sandia National Laboratories, Albuquerque, New Mexico, February.
- Saricks, C. L. and M. M. Tompkins, (1999), *State-Level Accident Rates of Surface Freight Transportation: A Reexamination*, ANL/ESD/TM-150, Argonne National Laboratory, Argonne, Illinois, April.
- TRB (Transportation Research Board), 1985, *Highway Capacity Manual*, Special Report 209, National Research Council, Washington, D.C.

References

Yuan, Y. J., S. Y. Chen, B. M. Biwer, and D. J. LePoire, 1995, *RISKIND - A Computer Program for Calculation Radiological Consequences and Health Risks from Transportation of Spent Nuclear Fuel*, ANL/EAD-1, Environmental Assessment Division, Argonne National Laboratory, Argonne, Illinois.

SECTION 5.2.10

NCRP (National Council on Radiation Protection and Measurements), 1993, *Limitation of Exposure to Ionizing Radiation*, Report Number 116, Washington, D.C.

SECTION 5.2.11

CEQ (Council on Environmental Quality), 1997, *Guidance for Addressing Environmental Justice Under the National Environmental Policy Act*, Executive Office of the President, Washington, D.C., December.

ESRF (Environmental Science and Research Foundation, Inc.), 1996, *Idaho National Engineering Laboratory Site Environmental Report for Calendar Year 1995*, ESRF-014, DOE/ID-12082 (95).

SECTION 5.2.12

LMITCO (Lockheed Martin Idaho Technologies Company), 1998, *Utilities and Infrastructure Report*, INEEL/EXT-97-01398, Idaho Falls, Idaho, February.

SECTION 5.2.13

Barnes, C. M., 2000, "Transmittal of Waste Volume Estimates for Various Sodium-Bearing Waste and Calcine Processing Alternatives - CMB-09-00," interoffice memorandum to J. H. Valentine, Bechtel BWXT Idaho, LLC, Idaho Falls, Idaho, August 29.

DOE (U.S. Department of Energy), 1997a, *Final Waste Management Programmatic Environmental Impact Statement for Managing Treatment, Storage, and Disposal of Radioactive and Hazardous Waste*, DOE/EIS-0200-F, Office of Environmental Management, Washington, D.C., May.

DOE (U.S. Department of Energy), 1997b, *Waste Isolation Pilot Plant Disposal Phase Final Supplemental Environmental Impact Statement*, DOE/EIS-0026-S-2, Carlsbad, New Mexico.

EG&G (EG&G, Inc.), 1993, *Projected INEL Waste Inventories*, Engineering Design File, ER&WM-EDF-0015-93, Revision 6a, Idaho Falls, Idaho, November 24.

Fewell, T. E., 1999, Revised Data for the High Level Waste Project Data Sheets, EDF-PDS-L-002, Rev. 1, March 15.

Helm, B.R., 1998, Lockheed Martin Idaho Technologies Company, "Response to Request for Information on Volumes of Material Consumed," memorandum to J.T. Beck, Idaho Falls, Idaho, August 6 as amended by B. R. Helm, 1998, facsimile transmittal to J. T. Beck, September 3.

LMITCO (Lockheed-Martin Idaho Technologies Company, Inc.), 1998, *Waste Management Progress, A Status Report of Waste Management Activities at the INEEL*, INEEL Waste Management Program, Idaho Falls, Idaho, May.

McDonald, T. G., 1999, Project Data Sheet and Draft Project Summary for Early Vitrification of SBW, NGLW, and Calcine (P88), EDF-PDS-F-002, Rev. 2, Lockheed Martin Idaho Technologies Company, Idaho Falls, Idaho, June 15.

Russell, N. E., T. G. McDonald, J. Banaee, C. M. Barnes, L. W. Fish, S. J. Losinski, H. K. Peterson, J. W. Sterbentz, and D. R. Wenzel, 1998, Waste Disposal, Options Report Volume 1, INEEL/EXT-97-01145, February 1998, Volume 2, Estimates of Feed and Waste Volumes, Compositions, and Properties, EDF-FDO-001, Rev. 1, February 5.

SECTION 5.2.14

Bowman, A. L., 2001a, Jason Associates, FW: March 7, 2001, electronic message to L. A. Matis, Tetra Tech NUS, Aiken, South Carolina, March 20.

Bowman, A. L., 2001b, Jason Associates, Revised Calcs. for SBW 5 Tank Failure, electronic message to L. A. Matis, Tetra Tech NUS, Aiken, South Carolina, March 9.

DOE (U.S. Department of Energy), 1988, *Internal Dose Conversion Factors for Calculation of Dose to the Public*, DOE/EH-0071, Washington, D.C., July.

DOE (U.S. Department of Energy), 1991, *Idaho National Engineering Laboratory Historical Dose Evaluation, Volume 1*, DOE/ID-12119, Idaho Falls, Idaho.

DOE (U.S. Department of Energy), 1993, *Recommendations for the Preparation of Environmental Assessments and Environmental Impact Statements*, Office of NEPA Oversight, May.

DOE (U.S. Department of Energy), 1994, *Airborne Release Fractions/Rates and Respirable Fractions for Nonreactor Nuclear Facilities*, DOE-STD-3010-94, Washington, D.C., December.

DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Environmental Impact Statement*, DOE/EIS-0203-F, Idaho Operations Office, Idaho Falls, Idaho, April.

Jenkins, T. W., 2001, DOE, minimum volume of soil contaminated from spill of 15,000 gallons of fuel oil, electronic message to A. Bowman, Jason Associates, Idaho Falls, Idaho, April 30.

Peterson, V. L., 1997, *Safety Analysis and Risk Assessment Handbook*, RFP-5098, Rocky Flats Environmental Technology Site, Golden, Colorado.

Rodriguez, R. R., A. L. Schafer, J. McCarthy, P. Martian, D. E. Burns, D. E. Raunig, N. A. Burch, and R. L. VanHorn, 1997, Comprehensive RI/FS for the Idaho Chemical Processing Plant OU3-13 at the INEEL, Part A, RI/BRA Report (Final), DOE/ID-10534, U.S. Department of Energy, Idaho Operations Office, Idaho Falls, Idaho, November.

SECTION 5.3

DOE (U.S. Department of Energy), 1997, *INEEL Comprehensive Facility and Land Use Plan*, DOE/ID-10514, DOE Idaho Operations Office, Idaho Falls, Idaho.

References

SECTION 5.3.1

DOE (U.S. Department of Energy), 1996, "Land and Facility Use Planning Policy," DOE P 430.1, DOE Office of Field Management, Washington, D.C.

DOE (U.S. Department of Energy), 1997, *INEEL Comprehensive Facility and Land Use Plan*, DOE/ID-10514, DOE Idaho Operations Office, Idaho Falls, Idaho.

SECTION 5.3.2

Beck, J. T. 1998, Lockheed Martin Idaho Technologies Company, personal communication with P. L. Young, Tetra Tech NUS, Aiken, South Carolina, October 20.

IDOL (Idaho Department of Labor), **2002**, "Covered Employment & Wages *or* ES-202 *Program*", available online http://www.labor.state.id.us/1mi/es_202/202home.htm, **May 28**.

SECTION 5.3.3

DOE (U.S. Department of Energy), 1995, *DOE Programmatic Spent Nuclear Fuel Management and INEL Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Idaho Operations Office, Idaho Falls, April.

DOE (U.S. Department of Energy), 1997, *Environmental Assessment and Plan for New Silt/Clay Source Development and Use at the Idaho National Engineering Laboratory*, DOE/EA-1083, Idaho Falls, Idaho, May.

SECTION 5.3.5

Berenbrock, C. and L.C. Kjelstrom, 1998, *Preliminary Water-Surface Elevations and Boundary of the 100-Year Peak Flow in the Big Lost River at the Idaho National Engineering and Environmental Laboratory, Idaho*, DOE/ID-22148, U.S. Geological Survey Water-Resources Investigations Report 98-4065, U.S. Department of Energy, Idaho Falls, Idaho.

BOR (Bureau of Reclamation), 1999, Status Report - Interagency Agreement Between the Department of Energy, Idaho Operations Office, and the Bureau of Reclamation - Assistance to INEEL for Flood Hazard Analysis Phase 2 Paleo Flood Studies, February.

SECTION 5.3.6

DOE (U.S. Department of Energy), 1997, *INEEL Comprehensive Land Use Plan*, DOE /ID-10514, DOE Idaho Operations Office, Idaho Falls, Idaho.

SECTION 5.3.7

TRB (Transportation Research Board), 1985, *Highway Capacity Manual*, Special Report 209, National Research Council, Washington, D.C.

SECTION 5.3.8

DOE (U.S. Department of Energy), 2001, *Occupational Injury and Property Damage Summary, January - December 2001*, available online <http://tis-hq.eh.doe.gov/cairs/cairs/summary/oipds014/sum.html>, accessed April 17, 2002.

EPA (U.S. Environmental Protection Agency), 1998, IRIS - Integrated Risk Information System, available online <http://www.epa.gov/iris>, Office of Research and Development, National Center for Environmental Assessment.

SECTION 5.3.9

CEQ (Council on Environmental Quality), 1997, *Guidance for Addressing Environmental Justice Under the National Environmental Policy Act*, Executive Office of the President, Washington, D.C., December.

SECTION 5.3.11

Haley, D. J., 1998, *Engineering Study Report for RCRA Facility Closure of CPP-604 (Process Equipment Waste Evaporator) and CPP-605*, INEEL/EXT-98-0151, Lockheed Martin Idaho Technologies Company, Idaho Falls, Idaho.

SECTION 5.3.12

DOE (U.S. Department of Energy), 1989, *General Design Criteria*, DOE Order 6430.1A, Washington, D.C.

DOE (U.S. Department of Energy), 1998, *Integration of Environmental Safety, and Health into Facility Disposition Activities*, DOE-STD-1120-98, May.

Rodriguez, R. R., A. L. Schafer, J. McCarthy, P. Martian, D. E. Burns, D. E. Raunig, N. A. Burch, R. L. Van Horn, 1997, *Comprehensive RI/FS for the Idaho Chemical Processing Plant OU 3-13 at the INEEL—Part A, RI/BRA Report (Final)*, DOE/ID-10534, U.S. Department of Energy, Idaho Falls, Idaho, November.

SECTION 5.4

American Cancer Society, 2001, *Cancer Facts and Figures 2001*, available online <http://www.cancer.org/downloads/STT/F&F2001.pdf>.

DOE (U.S. Department of Energy), 1988, *Internal Dose Conversion Factors for Calculation of Dose to the Public*, DOE/EH-0071, Assistant Secretary for Environment, Safety, and Health, Washington, D.C., July.

DOE (U.S. Department of Energy), 1991, *Idaho National Engineering Laboratory Historical Dose Evaluation*, Volume 1, DOE/ID-12119, Idaho Operations Office, Idaho Falls, Idaho, August.

References

- DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Final Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho, April.
- DOE (U.S. Department of Energy), 1996, *Environmental Assessment: Closure of the Waste Calcining Facility (CPP-633)*, Idaho National Engineering Laboratory, DOE/EA-1149, Idaho Operations Office, Idaho Falls, Idaho, July.
- DOE (U.S. Department of Energy), 1997a, *Environmental Assessment and Plan for New Silt/Clay Source Development and Use at the Idaho National Engineering and Environmental Laboratory*, DOE/EA-1083, Idaho Operations Office, Idaho Falls, Idaho, May.
- DOE (U.S. Department of Energy), 1997b, *Air Emissions Inventory for the Idaho National Engineering and Environmental Laboratory - 1996 Emissions*, DOE/ID-10594, U.S. Department of Energy, Idaho Operations Office, Idaho Falls, Idaho, June.
- DOE (U.S. Department of Energy), 1997c, *Idaho National Engineering and Environmental Laboratory Nonradiological Waste Management Information for 1996 and Record-to-Date*, DOE/ID-10057(96), Idaho Operations Office, Idaho Falls, Idaho, August.
- DOE (U.S. Department of Energy), 1999a, *Advanced Mixed Waste Treatment Project Final Environmental Impact Statement*, DOE/EIS-0290, U.S. Department of Energy, Office of Environmental Management, Washington, D.C., January.
- DOE (U.S. Department of Energy), 1999b, *Record of Decision Idaho Nuclear Technology and Engineering Center Operable Unit 3-13*, Rev. 0, DOE/ID-10660, Idaho Operations Office, Idaho Falls, Idaho, October.
- DOE (U.S. Department of Energy), 1999c, *Evaluation and Site Selection for a New Service Waste Disposal Facility for the Idaho Nuclear Technology and Engineering Center*, DOE/ID-10705, Revision 0, Idaho Operations Office, Idaho Falls, Idaho, September.**
- DOE (U.S. Department of Energy), 2000a, *Final Programmatic Environmental Impact Statement for the Treatment and Management of Sodium-Bonded Spent Nuclear Fuel*, DOE/EIS-0306, Office of Nuclear Energy, Science, and Technology, Washington D.C., July.**
- DOE (U.S. Department of Energy), 2000b, *Final Programmatic Environmental Impact Statement for Accomplishing Expanded Civilian Nuclear Energy Research and Development and Isotope Production Missions in the United States, Including the Role of the Fast Flux Test Facility*, DOE/EIS-0310, Office of Nuclear Energy, Science, and Technology, Washington D.C., December.**
- DOT (U.S. Department of Transportation), 1997, Traffic Safety Facts 1997, available online <http://www-nrd.nhtsa.dot.gov/pdf/nrd-30/NCSA/TSF97/Overview97.pdf>, National Highway Traffic Safety Administration.
- EPA (U.S. Environmental Protection Agency), 1989, *Risk Assessments, Environmental Impact Statement, NESHAPS for Radionuclides*, "Background Information Document, Volume 2," EPA/520/1-89-006-1, U.S. Environmental Protection Agency, Office of Radiation Programs, September.
- ESRF (Environmental Science and Research Foundation, Inc.), 1996, *Idaho National Engineering and Environmental Laboratory Site Environmental Report for Calendar Year 1995*, DOE/ID-12082 (95), ESRF-014, Environmental Science and Research Foundation, Inc., August.

- ESRF (Environmental Science and Research Foundation, Inc.), 1997, *Idaho National Engineering and Environmental Laboratory Site Environmental Report for Calendar Year 1996*, DOE/ID-12082 (96), ESRF-018, Environmental Science and Research Foundation, Inc., August.
- ESRF (Environmental Science and Research Foundation, Inc.), 1998, *Idaho National Engineering and Environmental Laboratory Site Environmental Report for Calendar Year 1997*, DOE/ID-12082 (97), ESRF-030, Environmental Science and Research Foundation, Inc., August.
- Hendrickson, K. D., 1995, *INEL SNF & Waste Engineering Systems Model*, Science Applications International Corporation, April.
- Jason (Jason Associates Corporation), 1998, *Update of the DOE PSNF and INEEL EIS Baseline and Model*, Idaho Falls, Idaho, July.
- NRC (U.S. Nuclear Regulatory Commission), 1977, *Final Environmental Impact Statement on the Transportation of Radioactive Material by Air and Other Modes*, NUREG-0170, U.S. Nuclear Regulatory Commission, Washington, D.C., December.
- Robertson, J.B., R. Schoen, and J.T., Barraclough, 1974, *The Influence of Liquid Waste Disposal on the Geochemistry of Water at the National Reactor Testing Station, Idaho: 1952-1970*, U.S. Geological Survey Open-File Report IDO-22053, Idaho Operations Office, Idaho Falls, Idaho, February.
- Rodriguez, R. R., A. L. Shafer, J. McCarthy, P. Martian, D. E. Burns, D. E. Raunig, N. A. Burch, and R. L. Van Horn, 1997, *Comprehensive RI/FS for the Idaho Chemical Processing Plant OU 3-13 at the INEEL—Part A, RI/BRA Report (Final)*, DOE/ID-10534, U.S. Department of Energy, Idaho Falls, Idaho, November.
- Weiner, R. F., P. A. LaPlante, and J. P. Hageman, 1991a, "An Approach to Assessing the Impacts of Incident-Free Transportation of Radioactive Materials: II. Highway Transportation," *Risk Analysis*, Volume 11, Number 4, pp. 661-666.
- Weiner, R. F., P. A. LaPlante, and J. P. Hageman, 1991b, "An Approach to Assessing the Impacts of Incident-Free Transportation of Radioactive Materials: I. Air Transportation," *Risk Analysis*, Volume 11, Number 4, pp. 655-660.

Chapter 6

- Clinton, W. J., 2000, "Boundary Enlargement of the Craters of the Moon National Monument," The White House, Office of the Press Secretary, Washington, D.C., November 9.**
- Cory, W. N., 1998, "Second Modification to Consent Order," letter to J. M. Wilczynski, U.S. Department of Energy, and C. C. Clarke, U.S. Environmental Protection Agency, Idaho Code §39-4413, Idaho Department of Health and Welfare, Division of Environmental Quality, Boise, Idaho, August 18.
- DOE (U.S. Department of Energy), 1985, *An Evaluation of Commercial Repository Capacity for the Disposal of Defense High-Level Waste*, DOE/DP-0020-1, U.S. Department of Energy, Assistant Secretary for Defense Programs, June.

References

- DOE (U.S. Department of Energy), 1995, *Department of Energy Programmatic Spent Nuclear Fuel Management and Idaho National Engineering Laboratory Environmental Restoration and Waste Management Programs Environmental Impact Statement*, DOE/EIS-0203-F, Volume 2, Part A, Idaho Operations Office, Idaho Falls, Idaho.
- DOE (U.S. Department of Energy), 1996, *Waste Acceptance Criteria for the Waste Isolation Plant*, DOE/WIPP-069, Revision 5, U.S. Department of Energy, Carlsbad Area Office, April.
- DOE (U.S. Department of Energy), 1998, *High-Level Waste and Facilities Disposition Environmental Impact Statement Scoping Activity Report*, DOE-ID-10617, Idaho Operations Office, Idaho Falls, Idaho.
- DOE (U.S. Department of Energy), 1999, *Radioactive Waste Management Manual*, DOE O 435.1 and M 435.1-1, Office of Environmental Management, July 9.
- DOE (U.S. Department of Energy), **2002, *Final Environmental Impact Statement for the Disposal of Spent Nuclear Fuel and High-Level Radioactive Waste at Yucca Mountain, Nye County, Nevada***, DOE/EIS-0250, Office of Civilian Radioactive Waste Management, Las Vegas, Nevada, ***available online www.ymp.gov/documents/feis_a/index.htm***.
- Dreyfus, D. A., 1995, U.S. Department of Energy, Director, Office of Civilian Radioactive Waste Management, Washington D. C., letter to J. E. Lytle, U.S. Department of Energy, Deputy Assistant Secretary for Waste Management, Office of Environmental Management, Washington D. C., "Proposed Mix DOE-Owned High-Level Waste and Spent Nuclear Fuel," November 9.
- Kelly, K. B., 1999, State of Idaho, Office of Attorney General, Boise, Idaho, letter to B. Bowhan, U.S. Department of Energy, Idaho Operations Office, Idaho Falls, Idaho, transmitting "Third Modification to Consent Order," Idaho Code §39-4413, April 20.
- Knecht, D. A., J. H. Valentine, A. J. Luptak, M. D. Staiger, H. H. Loo, T. L. Wichmann, 1999, *Options for Determining Equivalent MTHM for DOE High-Level Waste*, INEEL/EXT-99-00317, Revision 1, Lockheed-Martin Idaho Technologies Company, Idaho Falls, Idaho, April.
- Lytle, J. E., 1995, U. S. Department of Energy, Deputy Assistant Secretary for Waste Management, Office of Environmental Management, Washington D. C., letter to D. A. Dreyfus, U. S. Department of Energy, Director, Office of Civilian Radioactive Waste Management, Washington D. C., "Disposal of DOE-Owned High-Level Waste and Spent Nuclear Fuel," October 25.
- Monson, B. 1992, Idaho Division of Environmental Quality, Acting Chief Operating Permit Bureau, Boise, Idaho, letter to R. Rothman, U.S. Department of Energy, Idaho Field Office, transmitting "Copy of Signed INEEL Consent Order," April 7.
- NAS (National Academy of Sciences), 1999, *Alternative High Level Waste Treatments for the Idaho National Engineering and Environmental Laboratory*, National Academy Press, Washington D.C., December.***
- National Research Council, 1995, *Technical Bases for Yucca Mountain Standards*, Committee on Technical Bases for Yucca Mountain Standards, Board on Radioactive Waste Management, Commission on Geosciences, Environment, and Resources, National Academy Press, Washington, D.C.
- USDC (U.S. District Court for the District of Idaho), 1995, *Public Service Company of Colorado v. Philip E. Batt*, Civil No. 91-0035-S-EJL (Lead Case), Consent Order, October 17.