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PRESENT POSITION/TITLE AND EMPLOYER:

Research & Development (R&D) Program Manager and Leader of the Human Health Risk & Environmental Analysis Group within the Environmental Sciences Division (ESD) at the Oak Ridge National Laboratory, managed by UT-Battelle L.L.C. for the U.S. Department of Energy.

Job Duties/Responsibilities: As part of his assigned duties, Mr. Zimmerman is responsible for supervising the work performed by R&D staff members and administrative support personnel. He orchestrates a multi-disciplinary team of scientists and researchers who conduct and prepare human health risk analyses, integrated assessments, and environmental impact analyses for a variety of federal agencies. His specialties include the preparation of environmental impact statements (EISs) and environmental assessments (EAs) on topics of national importance, such as energy production and hazardous waste management facilities. Mr. Zimmerman is also responsible for the technical oversight of his team's work in the areas of air quality, water quality, human health and ecological risk analysis, socioeconomic impact analysis (including environmental justice), transportation, and waste management. He also contributes technical analyses in each of the above areas, as well as in the area of accident analysis and risk assessment. His managerial responsibilities require close interaction with clients and sponsors, as well as with the members of his scientific team. He is also responsible for developing schedules, budgets, and work assignments, as well as overseeing quality control and the preparation and assembly of final project deliverables and products. Mr. Zimmerman currently holds an "L" clearance with the U.S. Department of Energy.

TECHNICAL SKILLS, PROFICIENCIES, AND SPECIALTIES:

- Project and Program Management
- National Environmental Policy Act (NEPA)
- Environmental Impact Analyses (EIA)
- Risk and Accident Analyses
- Mechanical Engineering
- Environmental Engineering
- Nuclear Reactor Licensing
- Radioactive Waste Management

COMPUTER-RELATED SKILLS:

Extremely knowledgeable in personal computer hardware and Microsoft Windows-based software. Software expertise includes: Microsoft Word, Microsoft Excel, Microsoft PowerPoint, Microsoft Project, WordPerfect, Mozilla Firefox (web browser), Microsoft Internet Explorer, Microsoft Outlook/Exchange, SAP, and various internal ORNL packages related to cost accounting and project management.

GREGORY P. ZIMMERMAN***EDUCATION:***

- M.S. Degree; Mechanical Engineering, University of Tennessee (Knoxville), 1977.
- B.S. Degree; Mechanical Engineering, University of Tennessee (Knoxville), 1975.

Selected Other Courses and Training:

- *The Learning Organization* (taught by William D. Hitt), July 1995.
- *The Manager as a Leader* (taught by William D. Hitt), September 1993.
- *The Engineer/Scientist as a Manager*, College of Business Administration, University of Tennessee, September 1989.

SELECTED WORK EXPERIENCE:**January 1977 to Present — OAK RIDGE NATIONAL LABORATORY,
Oak Ridge, TN 37831**

February 1992 to present – R&D Program Manager

February 1990 to February 1992 – R&D Group Leader

April 1984 to February 1990 – Research Staff Member

January 1977 to April 1984 – Research Associate

Administrative Responsibilities (Highlights):

2008 to present: Leader of the Human Health Risk and Environmental Analysis Group within ORNL's Environmental Sciences Division.

2005 to 2008: Leader of the Consequence Analysis and Management Team within ORNL's Environmental Sciences Division.

2001 to 2003: Leader of the Environmental Impact Analysis Group within ORNL's Environmental Sciences Division.

1997 to 2001: Manager of the Environmental Impact Analyses Program within ORNL's Center for Energy and Environmental Analysis.

1989 to 2013: ORNL's Program Manager for environmental review of the U.S. Army's Chemical Stockpile Destruction Program (environmental impacts of destroying the U.S. stockpile of lethal chemical weapons); includes preparation of ten EISs and fifteen EAs for the Army's program.

Project/Program Responsibilities (Highlights):

2010 to present: Environmental review (EIS) of Early Site Permit for proposed new nuclear power generating units at the PSEG/Salem-Hope Creek Nuclear Generating Station site in New Jersey.

2008 to 2011: Environmental review (EIS) of proposed new nuclear power generating units at the Comanche Peak Nuclear Power Plant site in Texas.

2004 to 2007: Project Coordinator for the U.S. Climate Change Science Program's *State of the Carbon Cycle Report (SOCCR)*

2003: Transportation analysis for shipping hazardous liquid wastes on U.S. highways

1999 to 2002: Environmental review (EIS) of commercial spent nuclear fuel storage facility proposed for Skull Valley, Utah.

1998: Evaluation of statistical and risk-assessment packages used by the Army Corps of Engineers in characterizing sites that may contain unexploded ordnance.

1995: Radiological and chemical accident analyses for Nuclear Regulatory Commission's relicensing of Nuclear Metals, Inc., Concord, Mass.

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- 1994: ORNL Core Team leader for Performance Evaluations of fifteen potential DOE mixed low-level (radioactive) waste disposal sites.
- 1993: Environmental review (EIS) for Nuclear Regulatory Commission's licensing of Envirocare of Utah's 11e.(2) byproduct disposal facility.
- 1988: Programmatic EIS and project management—Destruction of the entire U.S. inventory of lethal chemical weapons; Depot-by-depot analyses.
- 1987: Environmental review (EIS) on packaging, transportation, and destruction of the national stockpile of chemical weapons by the U.S. Army.
- 1986: Conceptual design of a robotic device for large-scale cleanup of radioactively contaminated land.
- 1985: Assessment of state-of-the-art knowledge on blast and fallout shelters for civil defense purposes.
- 1984: Civil defense research and experiments with high-explosive testing of blast shelters.
- 1983: Evaluation of mineral (oil, gas, coal, etc.) production by lessees of federal lands to determine royalties due to the U.S. Department of Interior.
- 1982: Assessment and analysis of pressurized fluidized bed combustion (PFBC).
- 1979 to 1981: Fossil energy research on atmospheric fluidized bed combustion (AFBC) with TVA coals and limestones (experimental studies).
- 1978: Experimental study on liquid metal (potassium vapor) topping cycles.
- 1977: Design of alkali metal condenser for binary cycle power plant.

September 1975 to December 1976 — UNIVERSITY OF TENNESSEE, Department of Mechanical Engineering, Knoxville, TN 37916

Graduate research assistantship; nuclear safety studies involving heat and mass transfer in nuclear reactors cooled by liquid metals.

March 1971 to June 1974 — NASA (GEORGE C. MARSHALL SPACE FLIGHT CENTER), Huntsville, AL 35812

Cooperative education experience; mission planning aspects of the U.S. Space Shuttle program, including payload packaging and scheduling, as well as in-flight operations and orbital mechanics and maneuvering.

PROFESSIONAL/ACADEMIC HONORS:

- *Joel F. Bailey Award* for academic achievement among engineering students (University of Tennessee), 1975
- Received the *American Preparedness Award* (Along with other members of ORNL's Emergency Planning Group) from the American Civil Defense Association, November 1987.
- Martin Marietta Energy Systems, Inc., *Significant Event Award*, July 1991.
- UT-Battelle, *Significant Event Award*, October 2000.
- UT-Battelle, *Significant Event Award*, March 2008.

PUBLICATIONS, PRESENTATIONS, AND TESTIMONY:

Provided upon request.

GREGORY P. ZIMMERMAN***PUBLICATIONS, PRESENTATIONS, AND TESTIMONY (in reverse chronological order):***

B.T. Smith, W. Witt, K.M. Stewart, K. Lee, S. DeNeale, M. Bevelhimer, et al., *A Multi-Year Plan for Research, Development, and Prototype Testing of Standard Modular Hydropower Technology*, ORNL/TM-2016/102, Oak Ridge National Laboratory, Oak Ridge, Tenn., November 2016.

(Among preparers for and coordinator of) *Technical Review Documentation for Flooding Hazard Reevaluation of Seabrook Nuclear Generating Station, Unit 1*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., July 28, 2016.

(Among preparers for) *Environmental Considerations for the Consolidated Storage of Commercial Spent Nuclear Fuel and Associated Operations*, FCRD-NFST-2016-000469 (Draft), prepared for U.S. Department of Energy, Nuclear Fuels Storage and Transportation Planning Project, Washington, D.C., June 30, 2016.

(Among preparers for and coordinator of) *Technical Review Documentation for Flooding Hazard Reevaluation of Pilgrim Nuclear Power Station*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., June 24, 2016.

(Among preparers for and coordinator of) *Audit Status Report for Flooding Hazard Reevaluation of Pilgrim Nuclear Power Station*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., June 24, 2016.

(Among preparers for and coordinator of) *Pilgrim Nuclear Power Station—Staff Assessment of Response to 10 CFR 50.54(1) Information Request—Flood-Causing Mechanism Reevaluation*, Final Technical Evaluation Report, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., June 23, 2016.

(Among preparers for and coordinator of) *Audit Status Report for Flooding Hazard Reevaluation of Seabrook Nuclear Generating Station*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., June 22, 2016.

(Among preparers for and coordinator of) *Seabrook Nuclear Generating Station, Unit 1—Staff Assessment of Response to 10 CFR 50.54(1) Information Request—Flood-Causing Mechanism Reevaluation*, Final Technical Evaluation Report, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., June 22, 2016.

(Among preparers for and coordinator of) *Brunswick Steam Electric Plant, Units 1 and 2—Staff Assessment of Response to 10 CFR 50.54(1) Information Request—Flood-Causing Mechanism Reevaluation*, Final Technical Evaluation Report, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., May 19, 2016.

(Among preparers for and coordinator of) *Technical Review Documentation for Flooding Hazard Reevaluation of Brunswick Steam Electric Plant, Units 1 and 2*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., April 22, 2016.

(Among preparers for and coordinator of) *Audit Status Report for Flooding Hazard Reevaluation of Brunswick Steam Electric Plant, Units 1 and 2*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., April 22, 2016.

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(Among preparers for) *NRC Staff Response to the Licensing Board's Second Set of Questions Issued January 6, 2016 and Other Matters*, in the Matter of PSEG Power, LLC, and PSEG Nuclear LLC, Early Site Permit, Docket No. 52-043-ESP, ASLBP No. 15-943-01-ESP-BC0, submitted to the Atomic Safety and Licensing Board by the U.S. Nuclear Regulatory Commission, Washington, D.C., January 28, 2016.

(Among preparers for) *Preliminary National Environmental Policy Act (NEPA) Strategy for Consolidated Interim Storage*, FCRD-NFST-2015-000167 (Draft Rev. 1), prepared for U.S. Department of Energy, Nuclear Fuels Storage and Transportation Planning Project, Washington, D.C., January 8, 2016.

A.W. King, L. Dilling, D.M. Fairman, R.A. Houghton, G. Marland, A.Z. Rose, T.J. Wilbanks, and G.P. Zimmerman, *The State of the Carbon Cycle: Ten Years On*, presented at the Fall 2015 Meeting of the American Geophysical Union, San Francisco, Calif., December 14, 2015.

(Among preparers for) U.S. Nuclear Regulatory Commission and U.S. Army Corps of Engineers, *Environmental Impact Statement for an Early Site Permit at the PSEG Site, Final Report (Volumes 1, 2, and 3)*, NUREG-2168, U.S. Nuclear Regulatory Commission, Office of New Reactors, Washington, D.C., and U.S. Army Corps of Engineers, Philadelphia District, Philadelphia, Pa., November 2015. [Draft version of the EIS was published in August 2014]

(Among preparers for and coordinator of) *Technical Review Documentation for Flooding Hazard Reevaluation of River Bend Nuclear Power Station, Unit 1*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., August 28, 2015.

(Among preparers for and coordinator of) *River Bend Station, Unit 1—Staff Assessment of Response to 10 CFR 50.54(1) Information Request—Flood-Causing Mechanism Reevaluation, Final Technical Evaluation Report*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., August 28, 2015.

E.D. Smith, A.F. Turhollow, Jr., G.P. Zimmerman, L.M. Eaton, and C.B. Bast, *Impacts Analysis Regarding Partially Hydrogenated Oils*, ORNL-TM-2015-293, Oak Ridge National Laboratory, Oak Ridge, Tenn., June 2015.

(Among preparers for and coordinator of) *Quad Cities Nuclear Power Station, Units 1 and 2—Staff Assessment of Response to 10 CFR 50.54(1) Information Request—Flood-Causing Mechanism Reevaluation, Final Technical Evaluation Report*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the U.S. Nuclear Regulatory Commission, Washington, D.C., May 8, 2015.

G.P. Zimmerman and M-D. Cheng, *Analysis of Hypothetical Accidents Involving Beryllium Powder*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., prepared for the Defense Logistics Agency—Strategic Materials, Fort Belvoir, Va., March 2015.

(Lead author for) Defense Logistics Agency, *Environmental Assessment for Upgrade and Storage of Beryllium*, DLA—Strategic Materials, Fort Belvoir, Va., November 2014.

(Lead author for) U.S. Department of the Army, *Environmental Assessment for Proposed Installation and Operation of an Explosive Destruction Technology Facility at the Blue Grass Army Depot, Richmond, Kentucky*, Program Executive Office, Assembled Chemical Weapons Alternatives, Aberdeen Proving Ground, Md., June 2013.

(Lead author for) U.S. Department of the Army, *Environmental Assessment for Proposed Installation and Operation of an Explosive Destruction Technology Facility at the Pueblo Chemical Depot, Pueblo, Colorado*, U.S. Army Element—Assembled Chemical Weapons Alternatives, Aberdeen Proving Ground, Md., April 2012.

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- (Project leader for) U.S. Nuclear Regulatory Commission and U.S. Army Corps of Engineers, *Environmental Impact Statement for Combined Licenses (COLs) for Comanche Peak Nuclear Power Plant Units 3 and 4, Final Report (Volumes 1 and 2)*, NUREG-1943, U.S. Nuclear Regulatory Commission, Office of New Reactors, Washington, D.C., and U.S. Army Corps of Engineers, Fort Worth District, Fort Worth, Tex., May 2011. [Draft version of the EIS was published in August 2010]
- G.P. Zimmerman and H.D. Quarles, III, *Anniston Chemical Agent Disposal Facility: Third Review and Evaluation of Information for Updating the 1991 Final Environmental Impact Statement*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., May 2011.
- G.P. Zimmerman and H.D. Quarles, III, *Pine Bluff Chemical Agent Disposal Facility: Third Review and Evaluation of Information for Updating the 1997 Revised Final Environmental Impact Statement*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., July 2010.
- G.P. Zimmerman and H.D. Quarles, III, *Umatilla Chemical Agent Disposal Facility: Second Review and Evaluation of Information for Updating the 1996 Revised Final Environmental Impact Statement*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., December 2009.
- (Lead author for) U.S. Department of the Army, *Environmental Assessment for Proposed Installation and Operation of a Small-Scale Incineration Unit for the Destruction of Chemical Agents Tabun and Lewisite at the Deseret Chemical Depot in Utah*, U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., December 2008.
- G.P. Zimmerman and J.W. Saulsbury, *Newport Chemical Agent Disposal Facility: Review and Evaluation of Information for Updating the 2002 Environmental Assessment*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., June 2008.
- (Lead author for) U.S. Department of the Army, *Environmental Assessment for Proposed Modifications to Support the Destruction of Mustard Agent at the Umatilla Chemical Agent Disposal Facility (UMCDF) in Oregon*, U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., May 2008.
- (Lead author for) U.S. Department of the Army, *Environmental Assessment for Proposed Installation and Operation of an Autoclave System to Expand Secondary Waste Treatment Capability*, U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., April 2008.
- G.P. Zimmerman, D.W. Lee, R.L. Miller, H.D. Quarles, III, and J.W. Saulsbury, *Tooele Chemical Agent Disposal Facility: Second Review and Evaluation of Information for Updating the 1989 Environmental Impact Statement*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., March 2008.
- G.P. Zimmerman, D.W. Lee, L.N. McCold, R.L. Miller, H.D. Quarles, III, and J.W. Saulsbury, *Pine Bluff Chemical Agent Disposal Facility: Second Review and Evaluation of Information for Updating the 1997 Revised Final Environmental Impact Statement*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., February 2008.

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- CCSP (U.S. Climate Change Science Program), *The First State of the Carbon Cycle Report (SOCCR): The North American Carbon Budget and Implications for the Global Carbon Cycle*. A Report by the U.S. Climate Change Science Program and the Subcommittee on Global Change Research [King, A.W., L. Dilling, G.P. Zimmerman, D.M. Fairman, R.A. Houghton, G. Marland, A.Z. Rose, and T.J. Wilbanks (eds.)]. National Oceanic and Atmospheric Administration, National Climatic Data Center, Asheville, NC, USA, November 2007.
- G.P. Zimmerman and L.N. McCold, *Anniston Chemical Agent Disposal Facility: Second Review and Evaluation of Information for Updating the 1991 Environmental Impact Statement*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., August 2007.
- (Lead author for) U.S. Department of the Army, *Environmental Assessment for Proposed Modifications to Support the Destruction of Mustard Agents and Munitions at the Tooele Chemical Agent Disposal Facility (TOCDF) in Utah*, U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., May 2007.
- (Among preparers for) U.S. Department of Energy, *Special Environmental Analysis for Actions Taken under U.S. Department of Energy Order 202-05-03 Regarding Operation of the Potomac River Generating Station in Alexandria, Virginia*, DOE/SEA-04, Washington, D.C., November 2006.
- G.P. Zimmerman, C.E. Easterly, K.S. Gant, R.L. Miller, M.S. Salk, J.W. Saulsbury, B.L. Shumpert, *Umatilla Chemical Agent Disposal Facility: Review and Evaluation of Information for Updating the 1996 Revised Final Environmental Impact Statement*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., November 2006.
- G.P. Zimmerman and L.N. McCold, *Anniston Chemical Agent Disposal Facility: Environmental Impact Analysis for Proposed Treatment of Pollution Abatement System Liquid Brines*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., December 2005.
- K.S. Gant, G.P. Zimmerman, C.E. Easterly, G.K. Eddlemon, C.W. Hagan, Jr., L.N. McCold, R.L. Miller, H.D. Quarles III, R.M. Reed, and J.W. Terry, *Pine Bluff Chemical Agent Disposal Facility: Review and Evaluation of Information for Updating the 1997 Revised Final Environmental Impact Statement*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., January 2005.
- (Lead author for) U.S. Department of the Army, *Environmental Assessment: Proposed Installation and Operation of the Pine Bluff Explosive Destruction System (PBEDS) at Pine Bluff Arsenal, Arkansas*, U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., June 2004.
- (Lead author for) U.S. Department of the Army, *Biological Assessment for the Operation of a Chemical Weapons Destruction Facility at the Anniston Army Depot, Anniston, Alabama*, Army Chemical Materials Agency, Program Manager for the Elimination of Chemical Weapons, Aberdeen Proving Ground, Md., April 2004.
- G.P. Zimmerman, J.T. Ensminger, J.W. Saulsbury, *Transportation Analysis for the Off-Site Shipment of Liquid Process Effluent from the Newport Chemical Agent Disposal System at the Newport Chemical Depot, Indiana*, U.S. Army Chemical Materials Agency, Aberdeen Proving Ground, Md., December 2003.
- (Among preparers for) U.S. Department of the Army, *Environmental Assessment: Construction and Operation of a Facility to Destroy Binary Agent Precursors DF and QL Stored at the Pine Bluff Arsenal, Arkansas*, Program Manager for Chemical Demilitarization, Product Manager for Non-Stockpile Chemical Materiel, Aberdeen Proving Ground, Md., August 2003.

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G.P. Zimmerman, J.W. Terry, K.S. Gant, C.E. Easterly, G.K. Eddlemon, C.W. Hagan, Jr., L.N. McCold, R.L. Miller, J.W. Saulsbury, H.D. Quarles III, *Anniston Chemical Agent Disposal Facility: Review and Evaluation of Information for Updating the 1991 Final Environmental Impact Statement*, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Army Chemical Materials Agency (Provisional), Aberdeen, Md., June 2003.

(Among preparers for) U.S. Department of the Army, *Environmental Assessment: Proposed Deployment and Operation of an Explosive Destruction System at the Pine Bluff Arsenal, Arkansas*, Program Manager for Chemical Demilitarization, Product Manager for Non-Stockpile Chemical Materiel, Aberdeen Proving Ground, Md., February 2003.

(Among preparers for) U.S. Department of the Army, *Environmental Assessment: Proposed Destruction of Chemical Agent Identification Sets Stored at the Pine Bluff Arsenal, Arkansas*, Program Manager for Chemical Demilitarization, Product Manager for Non-Stockpile Chemical Materiel, Aberdeen Proving Ground, Md., February 2003.

(Among preparers for) U.S. Department of the Army, *Environmental Assessment: Proposed Construction and Operation of the Pine Bluff Non-Stockpile Facility at Pine Bluff Arsenal, Arkansas*, Program Manager for Chemical Demilitarization, Product Manager for Non-Stockpile Chemical Materiel, Aberdeen Proving Ground, Md., December 2002.

(Among preparers for) U.S. Department of the Army, *Final Environmental Impact Statement for Destruction of Chemical Munitions at Blue Grass Army Depot, Kentucky*, Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Md., December 2002.

Testimony (i.e., expert witness for the U.S. Nuclear Regulatory Commission) before the Atomic Safety and Licensing Board in the Matter of *Private Fuel Storage, L.L.C. (Interim Spent Fuel Storage Installation)*, Docket No. 72-22, ASLBP No. 97-732-02-ISFSI, Salt Lake City, Utah, April 23, 2002.

(Among preparers for) U.S. Department of the Army, *Final Environmental Impact Statement for Destruction of Chemical Munitions at Pueblo Chemical Depot, Colorado*, Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Md., March 2002.

“NRC Staff Testimony of Britta N. Laub, Kenneth E. McFarland, Alice B. Stephenson, and Gregory P. Zimmerman, Concerning Contention SUWA B (Rail Line Alignment Alternatives),” pre-filed testimony before the Atomic Safety and Licensing Board in the Matter of *Private Fuel Storage, L.L.C. (Interim Spent Fuel Storage Installation)*, Docket No. 72-22, U.S. Nuclear Regulatory Commission, March 18, 2002.

(Project leader for) U.S. Nuclear Regulatory Commission, *Final Environmental Impact Statement for the Construction and Operation of an Independent Spent Fuel Storage Installation on the Reservation of the Skull Valley Band of Goshute Indians and the Related Transportation Facility in Tooele County, Utah (Volumes 1 and 2)*, NUREG-1714, U.S. Nuclear Regulatory Commission, Office of Nuclear Material Safety and Safeguards, Washington, D.C., December 2001. [Draft version of the EIS was published in June 2000.]

(Among preparers for) U.S. Department of the Army, *Environmental Assessment: Proposed Assessment of Recovered Chemical Warfare Materiel at Pine Bluff Arsenal, Arkansas*, Program Manager for Chemical Demilitarization, Product Manager for Non-Stockpile Chemical Materiel, Aberdeen Proving Ground, Md., November 2001.

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- J.W. Terry and G.P. Zimmerman, *Johnston Atoll Chemical Agent Disposal System: Review and Evaluation of Information for Updating the 1990 Second Supplement Environmental Impact Statement*, prepared for the U.S. Army's Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Md., by Oak Ridge National Laboratory, Oak Ridge, Tenn., September 2001.
- Joint Affidavit of Gregory P. Zimmerman, et al., as attached to *NRC Staff's Joint Response Concerning Utah Contention W—Flooding at the Intermodal Transfer Point*, NRC Docket No. 72-22, U.S. Nuclear Regulatory Commission, August 13, 2001.
- Affidavit of Gregory P. Zimmerman as attached to *NRC Staff's Response to Applicant's Motion for Summary Disposition of SUWA Contention B—Railroad Alignment Alternatives*, NRC Docket No. 72-22, U.S. Nuclear Regulatory Commission, July 19, 2001.
- Affidavit of Gregory P. Zimmerman as attached to *NRC Staff's Response to Applicant's Motion for Summary Disposition of Utah Contention AA—Range of Alternatives*, NRC Docket No. 72-22, U.S. Nuclear Regulatory Commission, May 15, 2001.
- J.B. Berry, C.J. Coomer, R.C. DeVault, M.R. Hilliard, P.J. Hughes, M.P. Ternes, and G.P. Zimmerman. "Case Studies in Sustaining DoD Readiness," *26th Environmental Symposium and Exhibition*, March 27 to 30, 2000, Long Beach, Calif.; National Defense Industrial Association, Arlington, Va., Report No. P00-106353.
- G. Ostrouchov, G.P. Zimmerman, J.J. Beauchamp, V.V. Fedorov, and D.J. Downing, *Evaluation of Statistical Methodologies Used in U.S. Army Ordnance and Explosives Work*, ORNL/TM-13588, Oak Ridge National Laboratory, Oak Ridge, Tenn., September 1999.
- K.S. Gant and G.P. Zimmerman, *Tooele Chemical Agent Disposal Facility: Review and Evaluation of Information for Updating the 1989 Final Environmental Impact Statement*, ORNL/TM-13542, Oak Ridge National Laboratory, Oak Ridge, Tenn., July 1999.
- R.L. Miller and G.P. Zimmerman, "Environmental Documentation for DOE's Clean Coal Technology Program," a poster session presented at the *7th DOE Clean Coal Conference*, Knoxville, Tenn., June 21-24, 1999.
- R.M. Reed and G.P. Zimmerman, "Analyses of Environmental Justice Concerns for the U.S. Army's Chemical Stockpile Disposal Program," proceedings of *Environmental Forum V*, Denver, Colo., April 28 and 29, 1999, sponsored by the Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Md.
- (Among preparers for) U.S. Department of the Army, *Final Environmental Impact Statement for Pilot Testing of Neutralization/Supercritical Water Oxidation of VX Agent at Newport Chemical Activity, Indiana*, Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Md., December 1998.
- T.J. Blasing, G.F. Cada, C.E. Easterly, L.N. McCold, G.P. Zimmerman, *Environmental Assessment: Renewal of Materials Licenses for ALARON Corp. Northeast Regional Service Facility, Wampum, Pennsylvania*, NUREG/CR-5549, prepared by the Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Nuclear Regulatory Commission, Office of Nuclear Material Safety and Safeguards, Washington, D.C., December 1998.
- (Project leader for) U.S. Department of the Army, *Final Environmental Impact Statement for Pilot Testing of Neutralization/Biotreatment of Mustard Agent at Aberdeen Proving Ground, Maryland*, Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Md., July 1998.

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(Among preparers for) U.S. Department of the Army, *Revised Final Environmental Impact Statement for Disposal of Chemical Agents and Munitions Stored at Pine Bluff Arsenal, Arkansas*, Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Md., April 1997.

G.P. Zimmerman, *Review and Evaluation of Updated Numerical Input Values for Determining Risks to Threatened and Endangered Species near the Umatilla Chemical Depot, Oregon*, prepared for the Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Md., by the Oak Ridge National Laboratory, Oak Ridge, Tenn., April 1997.

G.P. Zimmerman, *Review and Evaluation of Updated Numerical Input Values for Determining Risks to Threatened and Endangered Species at the Pine Bluff Arsenal*, prepared for the Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Md., by the Oak Ridge National Laboratory, Oak Ridge, Tenn., March 1997.

R.L. Miller, C.E. Easterly, D.A. Lombardi, I.E. Treitler, R.T. Wimbrow, and G.P. Zimmerman, *Environmental Assessment for Proposed License Renewal of Nuclear Materials, Inc., Concord, Massachusetts*, NUREG/CR-6528, prepared by Oak Ridge National Laboratory, Oak Ridge, Tenn., for the U.S. Nuclear Regulatory Commission, Office of Nuclear Materials Safety and Safeguards, Washington, D.C., February 1997.

(Project leader for) U.S. Department of the Army, *Revised Final Environmental Impact Statement for Disposal of Chemical Agents and Munitions Stored at Umatilla Depot Activity, Oregon*, Program Manager for Chemical Demilitarization, Aberdeen Proving Ground, Md., November 1996.

J.T. Ensminger and G.P. Zimmerman, *Environmental Impact Assessment for the U.S. Army's Chemical Stockpile Disposal Program*, presented (invited presentation) at Chemical Stockpile Emergency Preparedness Program Planners' Workshop, Baltimore, Md., August 13-16, 1996.

G.P. Zimmerman, et al., "Life Cycle Analyses, A Tool for Decision Makers," a poster session presented at the *22nd Environmental Symposium and Exhibition*, Orlando, Fla., March 18-21, 1996; National Defense Industrial Association, Arlington, Va..

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