

Chris Yoshimi Kimura

Home Address: 1760 Tennis Lane Work Address: 1760 Tennis Lane
Tracy, CA 95376 Tracy, CA 95376

Home Telephone: (209) 833-1945 Work Telephone: (209) 833-1945
Cell Telephone: (209) 814-1184
Home E-Mail: ckimura@comcast.net Work E-Mail: dr.furushite1@comcast.net

EDUCATION

M.S. University of Utah, Nuclear Engineering, 1979
B.S. Brigham Young University, Mechanical Engineering, 1976

EMPLOYMENT HISTORY

2010-Present Hukari Technical Services
4251 Kipling Street, Suite 500
Wheat Ridge, CO 80033

2009-Present Energy Research, Inc.
6167 Executive Boulevard
Rockville, MD 20852
Consultant

2008-2009 RSL Safety Corporation
1409 East Boulevard
Charlotte, NC 28203
Consultant

1983-2008 Lawrence Livermore National Laboratory (LLNL), Livermore, CA
Engineer, Nuclear Engineering and Risk Assessment Group

1979-1982 NUTECH Engineers, San Jose, CA
Project Engineer, Mark I Containment Program

1979 Westinghouse Electric Corporation
Naval Reactors Facility, Idaho Falls, ID
Trainee, S5G Prototype Reactor Plant

AREAS OF SPECIALITIES

Nuclear and Systems Engineering with emphasis in probabilistic risk assessment (PRA) of nuclear reactor systems, nuclear power plant licensing and safety issues, Department of Energy (DOE) nuclear facilities safety authorization, commercial and general aviation risk analysis, highway and railroad transportation risk analysis.

CURRENT WORK ASSIGNMENT

With ERI, supporting the technical review of the South Texas 3 and 4 Plant-Specific Technical Specifications and License Renewal Applications of several research reactors for the Nuclear Regulatory Commission (NRC). Also supporting the technical review of the Swiss Gosgen Shutdown Probabilistic Safety Assessment (PSA) Study.

PREVIOUS WORK EXPERIENCE AT HUKARI

2010 Supported the Safety Basis Division in the preparation of documents for the Hazardous Waste Management Group at the Los Alamos National Laboratory (LANL) and in a separate assignment, preparation of Unreviewed Safety Questions (USQs) for the Borolo Project at the Nevada Test Site (NTS).

PREVIOUS WORK EXPERIENCE AT RSL

2008-2009 Supported the MOX Project in the preparation of documents for the safety analysis of the MOX Fuel Fabrication Facility (MFFF) located at the Savannah River Site (SRS).

PREVIOUS WORK EXPERIENCE AT LLNL

2006-2008 Supported the Yucca Mountain Project (YMP) as the primary author on the Analysis of Mechanisms for Early Waste Package/Drip Shield Failure Mechanism for the Lead Laboratory/Sandia National Laboratory. Supported the YMP/Bechtel SAIC (BSC) Preclosure Safety Analyses group in the preparation of documents for the License Application for the YMP.

2004-2006 Supported the LLNL Superblock in the preparation of USQDs.

1998-2005 Participated in the International Atomic Energy Agency (IAEA) Consultants Research Program (CRP) on Accident Risk from Air Transport of Radioactive Material.

2004 Participated in the preparation of vulnerability studies for NAI.

2004 Supported the Yucca Mountain Project (YMP) in the revision and updating of its supporting documents to the License Application.

2000-2003 Participated in the Device Assembly Facility (DAF) Documented Safety Analyses (DSA) review as a member of the technical team.

1997-2002 Participated in the NTS Aircraft Overflight Risk Study for the DAF and the Icecap Event.

1998-2000 Supporting the LLNL Hazardous Waste Management (HWM) Division various accident studies and in the preparation of USQDs.

1996-2000 Supporting the LLNL Materials Management Area (MMA) in preparation and updating of its Final Safety Analysis Report (FSAR) and implementing its USQD Program.

1994-1996 Member of the DOE Standard Aircraft Crash Risk Assessment Methodology (ACRAM) Panel and headed the team effort to develop the data needed to form the technical basis for the DOE ACRAM Standard.

1993-1994 Supported the DOE Office of Nuclear Energy (NE) in their preparation of the certification application of the Paducah and Portsmouth Gaseous Diffusion Plants (GDPs) for the NRC.

1990-1993 Supported the DOE Albuquerque Operations Office (DOE/AL) in the development of Safety Guides for DOE Transportation Risk Assessment for the authorization of shipments of nuclear weapons and related components, review of Transportation Risk Assessments submitted for authorization, development of training course for the preparation of Transportation Risk Assessments, and other appraisals and evaluations as needed of the DOE transportation complex.

1991-1993	Supported the DOE Defense Programs Office of Nuclear Self-Assessment (DP-9) in the Performance Indicator (PI) program, DOE self-assessment of facility emergency power supplies, and the preparation of guidance documents for the performance of self-assessment reviews of facility SARs.
1988-1990	Class B reactor safety technical support for the DOE Office of Energy Research (ER).
1986-1988	Supported NRC in various inspection activities including the Seabrook 1 Nuclear Power Plant pre-operating license low power physics tests, Augmented Inspection Team (AIT) inspection of Trojan Nuclear Power Plant, Design Baseline and Verification Program inspection of Browns Ferry Nuclear Power Plant, and Safety Parameter Display System audit of the R.E. Ginna Nuclear Power Plant.
1986-1988	Led the LLNL evaluation of external events on nuclear power plants in the United States for the NRC.
1985-1991	Participated in the review of Technical Specifications for the NRC Office of Nuclear Reactor Regulation (NRR) of the following Near Term Operating License (NTOL) nuclear power plants: Catawba 2, Seabrook 1, South Texas 1, Vogtle 1, Beaver Valley 2, Comanche Peak 1, Limerick 2 and Shearon Harris. Participated in the upgrade of the Technical Specifications of the Fort St. Vrain Nuclear Power Plant. Participated in the development of the Improved Technical Specifications and review of the Crystal River 3 lead plant implementation of the Improved Technical Specifications.
1984-1985	Gathered the transportation accident data for the LLNL evaluation of the certification standards for casks used in the highway and railroad transportation of commercial high level nuclear waste.
1984	Participated in Systems Interaction Project on the Indian Point 3 Nuclear Power Plant for the NRC.
1983-1984	Involved in various PWR and BWR seismic risk studies for NRC.

PUBLICATIONS

Accidental Aircraft Crash Hit Frequency Analysis of Overflights of the Nevada Test Site (NTS) and the Device Assembly Facility (DAF), principal author with D.L. Sanzo, and M. Sharirli, Lawrence Livermore National Laboratory UCRL-ID-131259 Revision 2, February 1, 2002.

Crash Hit Frequency Analysis of Aircraft Overflights of the Nevada Test Site (NTS) and the Device Assembly Facility (DAF), principal author with D.L. Sanzo, and M. Sharirli, Lawrence Livermore National Laboratory UCRL-JC131259, paper prepared for the ASME Pressure Vessels and Piping Conferences Symposium on Integrity Assessment & Risk Analysis August 1-5, 1999 in Boston, MA.

Crash Hit Frequency Analysis of Aircraft Overflights of the Nevada Test Site (NTS) and the Device Assembly Facility (DAF), principal author with D.L. Sanzo, and M. Sharirli, Lawrence Livermore National Laboratory UCRL-ID-131259, Rev. 1, January 1999; Rev. 0, July 1998.

Risk Assessment of High Altitude Free Flight Commercial Aircraft Operations, coauthor with G.M. Sandquist, D.M. Slaughter, and D.L. Sanzo, Lawrence Livermore National Laboratory UCRL-JC-130435, April 1998, paper prepared for the 4th International Conference on Probabilistic Safety Assessment and Management (PSAM-4) September 13-18, 1998 in New York City, NY.

Aircraft Crash Hit Analysis of the Decontamination and Waste Treatment Facility (DWTF) at the Lawrence Livermore National Laboratory (LLNL), principal author with G.P. Brumburgh, Lawrence Livermore National

Laboratory UCRL-JC-128512, April 1998, paper prepared for the 4th International Conference on Probabilistic Safety Assessment and Management (PSAM-4) September 13-18, 1998 in New York City, NY.

Aircraft Crash Assessment of U.S. Nuclear Power Plant Sites Using the NRC Methodology, coauthor with P.G. Prassinis, Lawrence Livermore National Laboratory UCRL-ID-128664, February 1998, paper prepared for the 6th International Conference on Nuclear Engineering May 10-15, 1998 in San Diego, CA.

Estimate of Aircraft Crash Hit Frequencies on to Facilities at the Lawrence Livermore National Laboratory (LLNL) Site 200, principal author with R.E. Glaser, Lawrence Livermore National Laboratory UCRL-ID-127761, Rev. 0, July 1997.

Casting LCOs as Administrative Controls: Benefits, Drawbacks and Implementation, coauthor with C. van Warmerdam, G.P. Brumburgh, and D.H. Chung, Lawrence Livermore National Laboratory UCRL-JC-127219, paper prepared for the 1997 Safety Analysis Workshop June 9-13, 1997 in Oakland, CA.

Aircraft Crash Frequency Analysis of the Lawrence Livermore National Laboratory (LLNL), Lawrence Livermore National Laboratory UCRL-JC-127041, paper prepared for the 1997 Safety Analysis Workshop June 9-13, 1997 in Oakland, CA

Data Development Technical Support Document for the Aircraft Crash Risk Analysis Methodology (ACRAM) Standard, principal author with R.E. Glaser, P. Kvam, R.W. Mensing, T. Lin, T.A. Haley, A.B. Barto, and M.A. Stutzke, Lawrence Livermore National Laboratory UCRL-ID-124837, Rev. 1, September 1996.

Risk Assessment for Aircraft Flight Operations at Salt Lake International Airport, coauthor with G.M. Sandquist, and D.M. Slaughter, paper prepared for the ASME International Mechanical Engineering Congress and Exposition November 12-17, 1995 in San Francisco, CA.

Aircraft Accident Data Development for Aircraft Risk Evaluation to Ground Facilities Through the Use of a G.I.S., principal author with C.T. Bennett, G.M. Sandquist, and S. Smith, Lawrence Livermore National Laboratory UCRL-JC-118793, March 1995, paper prepared for the ASME Pressure Vessel & Piping Conference July 23-27, 1995 in Honolulu, HI.

World Commercial Aircraft Accidents, 3rd Edition, 1946-1993, Volume 1 Jet and Turboprop Aircrafts, Lawrence Livermore National Laboratory UCRL-ID-117818, Vol. 1, June 1994.

A Method for Determining Risk to Ground Facilities from Aircraft Accidents, principal author with C.T. Bennett, Lawrence Livermore National Laboratory, paper prepared for the 2nd International Conference on Probabilistic Safety Assessment and Management (PSAM-2) March 20-24, 1994 in San Diego, CA.

Application of the DOE and NRC Nuclear Safety Policy to Transportation Operations, principal author with G.M. Sandquist, Lawrence Livermore National Laboratory, UCRL-JC-115411, October 1993, paper prepared for the 2nd International Conference on Probabilistic Safety Assessment and Management (PSAM-2) March 20-24, 1994 in San Diego, CA.

Risk Assessment of Radioactive and Hazardous Materials in DOE Defense Package Transportation Accidents, coauthor with G.M. Sandquist, J.S. Bennion, J.E. Moore, D.M. Slaughter, Lawrence Livermore National Laboratory UCRL-JC-112752, December 1992, paper accepted by the International Journal of Radioactive Material Transport (RAMSTRANS) February 1993.

World Commercial Aircraft Accidents, 2nd Edition, 1946-1992, Lawrence Livermore National Laboratory UCRL-ID-112905, January 1993.

The "Glass" Control Room and Human Error in the Nuclear Power Plant, coauthor with C.T. Bennett, Lawrence Livermore National Laboratory UCRL-JC-110425, October 1992, paper prepared for the ANS Probabilistic Safety Assessment (PSA) Meeting January 27-29, 1993, in Clearwater, FL.

Risk Assessment of DOE Defense Program Packages in a Beyond 10 CFR 71.73 Transportation Accident Environment, coauthor with G.M. Sandquist, J.S. Bennion, and J.E. Moore, Lawrence Livermore National Laboratory UCRL-JC-110401, October 1992, paper prepared for the ANS Probabilistic Safety Assessment (PSA) Meeting January 27-29, 1993 in Clearwater, FL.

System Response of a DOE Defense Program Package in a Transportation Accident Environment, coauthor with T.F. Chen, and J. Hovingh, Lawrence Livermore National Laboratory UCRL-JC-110276, October 1992, paper prepared for the ANS Probabilistic Safety Assessment (PSA) Meeting January 27-29, 1993 in Clearwater, FL.

Transportation System Risk Assessment on DOE Defense Program Shipments, coauthor with G.P. Brumburgh, H.P. Alesso, and P.G. Prassinis, Lawrence Livermore National Laboratory UCRL-JC-110250, October 1992, paper prepared for the ANS Probabilistic Safety Assessment (PSA) Meeting January 27-29, 1993 in Clearwater, FL.

World Commercial Aircraft Accidents, 1st Edition, 1946-1991, Lawrence Livermore National Laboratory UCRL-ID-110003, February 1992.

Recent DOE and NRC Reactor Maintenance Regulations, coauthor with G.M. Sandquist, and J.S. Bennion, paper published by the Nuclear Plant Journal, September-October 1991, Vol. 9, No. 5, pg. 46-54.

Risk Assessment for the Transportation of Nuclear Materials, coauthor with G.M. Sandquist, and J.S. Bennion, paper prepared for the ANS Winter Meeting November 10-14, 1991 in San Francisco, CA.

Accident Analysis and Safety Review of DOE Category B Reactors, Lawrence Livermore National Laboratory UCRL-102683, paper prepared for the IANS Topical Meeting on the Safety, Status, and Future of Noncommercial Reactors and Irradiation Facilities September 30-October 4, 1990 in Boise, ID

Technical Evaluation Report of the Fort St. Vrain Final Draft Upgraded Technical Specifications, Lawrence Livermore National Laboratory UCID-21738, July 1989.

Evaluation of External Hazards to Nuclear Power Plants in the United States, principal author with P.G. Prassinis, Lawrence Livermore National Laboratory UCID-21223, Supplement 2, U.S. Nuclear Regulatory Commission NUREG/CR-5042, February 1989.

Seismic Failure and Cask Drop Analyses of the Spent Fuel Pools at Two Representative Nuclear Power Plants, coauthor with P.G. Prassinis, D.B. McCallen, R.C. Murray, M.K. Ravindra, R.D. Campbell, P.S. Hashimoto, A.M. Nafday, and W.H. Tong, Lawrence Livermore National Laboratory UCID-21425, U.S. Nuclear Regulatory Commission NUREG/CR-5176, January 1989.

Supplemental Technical Evaluation of Detailed Control Room Design Review for Rochester Gas and Electric Company's R.G. Ginna Nuclear Plant, coauthor with G.L. Johnson, and E.E. Schultz, Jr., Lawrence Livermore National Laboratory UCID-21227, August 1988.

Evaluation of External Hazards to Nuclear Power Plants in the United States, principal author with R.J. Budnitz, Lawrence Livermore National Laboratory UCID-21223, U.S. Nuclear Regulatory Commission NUREG/CR-5042, December 1987.

Shipping Container Response to Severe Highway and Railway Accident Conditions, Appendices, coauthor with L.E. Fischer, C.K. Chou, M.A. Gerhard, R.W. Martin, R.W. Mensing, M.E. Mount, and M.C. Witte, Lawrence Livermore National Laboratory UCID-20733 Vol. 2, U.S. Nuclear Regulatory Commission NUREG/CR-4829, February 1987.

Shipping Container Response to Severe Highway and Railway Accident Conditions, Main Report, coauthor with L.E. Fischer, C.K. Chou, M.A. Gerhard, R.W. Martin, R.W. Mensing, M.E. Mount, and M.C. Witte, Lawrence Livermore National Laboratory UCID-20733 Vol. 1, U.S. Nuclear Regulatory Commission NUREG/CR-4829, February 1987.

Digraph Matrix Analysis for Systems Interactions at Indian Point Unit 3 coauthor with H.P. Alesso, T. Altenbach, P.G. Prassinis, D.A. Lappa, C.J. Patenaude, I.J. Sacks, B.C. Ashmore, D.C. Fromme, M.V. Hershberger, C.F. Smith, and W.J. Williams, Lawrence Livermore National Laboratory UCID-20350, Vol. 1, U.S. Nuclear Regulatory Commission NUREG/CR-4179, January 1986.

An Evaluation of Current Regulations and Real Accident Conditions, coauthor with L.E. Fischer, and M.C. Witte, Lawrence Livermore National Laboratory UCRL-92459, April 1985, paper prepared for the Waste Management '85 Conference March 24, 1985 in Tucson, AZ.

Categorization of PWR Accident Sequences and Guidelines for Fault Trees: Seismic Initiators, Lawrence Livermore National Laboratory UCID-20211, September 1984.

Digraph Matrix Analysis Applications to Systems Interactions, coauthor with H.P. Alesso, T. Altenbach, D. Lappa, I.J. Sacks, B.C. Ashmore, D. Fromme, C.F. Smith, and W. Williams, Lawrence Livermore National Laboratory UCRL-90116, January 1984, paper prepared for the 1984 ANS Annual Meeting, June 3-8, 1984 in New Orleans, LA.

Probabilistic Assessment of Spent Fuel Shipping Cask Response to Severe Transportation Accident Conditions, Report Summary, coauthor with L.E. Fischer, and M.C. Witte, Lawrence Livermore National Laboratory UCRL-91471, paper prepared for the ANS/ENS Topical meeting on Probabilistic Safety Methods and Applications, February 24-28, 1984 in San Francisco, CA.

Chris Yoshimi Kimura

Home Address: 1760 Tennis Lane Work Address: 1760 Tennis Lane
Tracy, CA 95376 Tracy, CA 95376

Home Telephone: (209) 833-1945 Work Telephone: (209) 833-1945
Cell Telephone: (209) 814-1184
Home E-Mail: ckimura@comcast.net Work E-Mail: dr.furushite1@comcast.net

EDUCATION

M.S. University of Utah, Nuclear Engineering, 1979
B.S. Brigham Young University, Mechanical Engineering, 1976

EMPLOYMENT HISTORY

2010-Present Hukari Technical Services
4251 Kipling Street, Suite 500
Wheat Ridge, CO 80033

2009-Present Energy Research, Inc.
6167 Executive Boulevard
Rockville, MD 20852
Consultant

2008-2009 RSL Safety Corporation
1409 East Boulevard
Charlotte, NC 28203
Consultant

1983-2008 Lawrence Livermore National Laboratory (LLNL), Livermore, CA
Engineer, Nuclear Engineering and Risk Assessment Group

1979-1982 NUTECH Engineers, San Jose, CA
Project Engineer, Mark I Containment Program

1979 Westinghouse Electric Corporation
Naval Reactors Facility, Idaho Falls, ID
Trainee, S5G Prototype Reactor Plant

AREAS OF SPECIALITIES

Nuclear and Systems Engineering with emphasis in probabilistic risk assessment (PRA) of nuclear reactor systems, nuclear power plant licensing and safety issues, Department of Energy (DOE) nuclear facilities safety authorization, commercial and general aviation risk analysis, highway and railroad transportation risk analysis.

CURRENT WORK ASSIGNMENT

With ERI, supporting the technical review of the South Texas 3 and 4 Plant-Specific Technical Specifications and License Renewal Applications of several research reactors for the Nuclear Regulatory Commission (NRC). Also supporting the technical review of the Swiss Gosgen Shutdown Probabilistic Safety Assessment (PSA) Study.

PREVIOUS WORK EXPERIENCE AT HUKARI

2010 Supported the Safety Basis Division in the preparation of documents for the Hazardous Waste Management Group at the Los Alamos National Laboratory (LANL) and in a separate assignment, preparation of Unreviewed Safety Questions (USQs) for the Borolo Project at the Nevada Test Site (NTS).

PREVIOUS WORK EXPERIENCE AT RSL

2008-2009 Supported the MOX Project in the preparation of documents for the safety analysis of the MOX Fuel Fabrication Facility (MFFF) located at the Savannah River Site (SRS).

PREVIOUS WORK EXPERIENCE AT LLNL

2006-2008 Supported the Yucca Mountain Project (YMP) as the primary author on the Analysis of Mechanisms for Early Waste Package/Drip Shield Failure Mechanism for the Lead Laboratory/Sandia National Laboratory. Supported the YMP/Bechtel SAIC (BSC) Preclosure Safety Analyses group in the preparation of documents for the License Application for the YMP.

2004-2006 Supported the LLNL Superblock in the preparation of USQDs.

1998-2005 Participated in the International Atomic Energy Agency (IAEA) Consultants Research Program (CRP) on Accident Risk from Air Transport of Radioactive Material.

2004 Participated in the preparation of vulnerability studies for NAI.

2004 Supported the Yucca Mountain Project (YMP) in the revision and updating of its supporting documents to the License Application.

2000-2003 Participated in the Device Assembly Facility (DAF) Documented Safety Analyses (DSA) review as a member of the technical team.

1997-2002 Participated in the NTS Aircraft Overflight Risk Study for the DAF and the Icecap Event.

1998-2000 Supporting the LLNL Hazardous Waste Management (HWM) Division various accident studies and in the preparation of USQDs.

1996-2000 Supporting the LLNL Materials Management Area (MMA) in preparation and updating of its Final Safety Analysis Report (FSAR) and implementing its USQD Program.

1994-1996 Member of the DOE Standard Aircraft Crash Risk Assessment Methodology (ACRAM) Panel and headed the team effort to develop the data needed to form the technical basis for the DOE ACRAM Standard.

1993-1994 Supported the DOE Office of Nuclear Energy (NE) in their preparation of the certification application of the Paducah and Portsmouth Gaseous Diffusion Plants (GDPs) for the NRC.

1990-1993 Supported the DOE Albuquerque Operations Office (DOE/AL) in the development of Safety Guides for DOE Transportation Risk Assessment for the authorization of shipments of nuclear weapons and related components, review of Transportation Risk Assessments submitted for authorization, development of training course for the preparation of Transportation Risk Assessments, and other appraisals and evaluations as needed of the DOE transportation complex.

1991-1993	Supported the DOE Defense Programs Office of Nuclear Self-Assessment (DP-9) in the Performance Indicator (PI) program, DOE self-assessment of facility emergency power supplies, and the preparation of guidance documents for the performance of self-assessment reviews of facility SARs.
1988-1990	Class B reactor safety technical support for the DOE Office of Energy Research (ER).
1986-1988	Supported NRC in various inspection activities including the Seabrook 1 Nuclear Power Plant pre-operating license low power physics tests, Augmented Inspection Team (AIT) inspection of Trojan Nuclear Power Plant, Design Baseline and Verification Program inspection of Browns Ferry Nuclear Power Plant, and Safety Parameter Display System audit of the R.E. Ginna Nuclear Power Plant.
1986-1988	Led the LLNL evaluation of external events on nuclear power plants in the United States for the NRC.
1985-1991	Participated in the review of Technical Specifications for the NRC Office of Nuclear Reactor Regulation (NRR) of the following Near Term Operating License (NTOL) nuclear power plants: Catawba 2, Seabrook 1, South Texas 1, Vogtle 1, Beaver Valley 2, Comanche Peak 1, Limerick 2 and Shearon Harris. Participated in the upgrade of the Technical Specifications of the Fort St. Vrain Nuclear Power Plant. Participated in the development of the Improved Technical Specifications and review of the Crystal River 3 lead plant implementation of the Improved Technical Specifications.
1984-1985	Gathered the transportation accident data for the LLNL evaluation of the certification standards for casks used in the highway and railroad transportation of commercial high level nuclear waste.
1984	Participated in Systems Interaction Project on the Indian Point 3 Nuclear Power Plant for the NRC.
1983-1984	Involved in various PWR and BWR seismic risk studies for NRC.

PUBLICATIONS

Accidental Aircraft Crash Hit Frequency Analysis of Overflights of the Nevada Test Site (NTS) and the Device Assembly Facility (DAF), principal author with D.L. Sanzo, and M. Sharirli, Lawrence Livermore National Laboratory UCRL-ID-131259 Revision 2, February 1, 2002.

Crash Hit Frequency Analysis of Aircraft Overflights of the Nevada Test Site (NTS) and the Device Assembly Facility (DAF), principal author with D.L. Sanzo, and M. Sharirli, Lawrence Livermore National Laboratory UCRL-JC131259, paper prepared for the ASME Pressure Vessels and Piping Conferences Symposium on Integrity Assessment & Risk Analysis August 1-5, 1999 in Boston, MA.

Crash Hit Frequency Analysis of Aircraft Overflights of the Nevada Test Site (NTS) and the Device Assembly Facility (DAF), principal author with D.L. Sanzo, and M. Sharirli, Lawrence Livermore National Laboratory UCRL-ID-131259, Rev. 1, January 1999; Rev. 0, July 1998.

Risk Assessment of High Altitude Free Flight Commercial Aircraft Operations, coauthor with G.M. Sandquist, D.M. Slaughter, and D.L. Sanzo, Lawrence Livermore National Laboratory UCRL-JC-130435, April 1998, paper prepared for the 4th International Conference on Probabilistic Safety Assessment and Management (PSAM-4) September 13-18, 1998 in New York City, NY.

Aircraft Crash Hit Analysis of the Decontamination and Waste Treatment Facility (DWTF) at the Lawrence Livermore National Laboratory (LLNL), principal author with G.P. Brumburgh, Lawrence Livermore National

Laboratory UCRL-JC-128512, April 1998, paper prepared for the 4th International Conference on Probabilistic Safety Assessment and Management (PSAM-4) September 13-18, 1998 in New York City, NY.

Aircraft Crash Assessment of U.S. Nuclear Power Plant Sites Using the NRC Methodology, coauthor with P.G. Prassinis, Lawrence Livermore National Laboratory UCRL-ID-128664, February 1998, paper prepared for the 6th International Conference on Nuclear Engineering May 10-15, 1998 in San Diego, CA.

Estimate of Aircraft Crash Hit Frequencies on to Facilities at the Lawrence Livermore National Laboratory (LLNL) Site 200, principal author with R.E. Glaser, Lawrence Livermore National Laboratory UCRL-ID-127761, Rev. 0, July 1997.

CASTING LCOs as Administrative Controls: Benefits, Drawbacks and Implementation, coauthor with C. van Warmerdam, G.P. Brumburgh, and D.H. Chung, Lawrence Livermore National Laboratory UCRL-JC-127219, paper prepared for the 1997 Safety Analysis Workshop June 9-13, 1997 in Oakland, CA.

Aircraft Crash Frequency Analysis of the Lawrence Livermore National Laboratory (LLNL), Lawrence Livermore National Laboratory UCRL-JC-127041, paper prepared for the 1997 Safety Analysis Workshop June 9-13, 1997 in Oakland, CA

Data Development Technical Support Document for the Aircraft Crash Risk Analysis Methodology (ACRAM) Standard, principal author with R.E. Glaser, P. Kvam, R.W. Mensing, T. Lin, T.A. Haley, A.B. Barto, and M.A. Stutzke, Lawrence Livermore National Laboratory UCRL-ID-124837, Rev. 1, September 1996.

Risk Assessment for Aircraft Flight Operations at Salt Lake International Airport, coauthor with G.M. Sandquist, and D.M. Slaughter, paper prepared for the ASME International Mechanical Engineering Congress and Exposition November 12-17, 1995 in San Francisco, CA.

Aircraft Accident Data Development for Aircraft Risk Evaluation to Ground Facilities Through the Use of a G.I.S., principal author with C.T. Bennett, G.M. Sandquist, and S. Smith, Lawrence Livermore National Laboratory UCRL-JC-118793, March 1995, paper prepared for the ASME Pressure Vessel & Piping Conference July 23-27, 1995 in Honolulu, HI.

World Commercial Aircraft Accidents, 3rd Edition, 1946-1993, Volume 1 Jet and Turboprop Aircrafts, Lawrence Livermore National Laboratory UCRL-ID-117818, Vol. 1, June 1994.

A Method for Determining Risk to Ground Facilities from Aircraft Accidents, principal author with C.T. Bennett, Lawrence Livermore National Laboratory, paper prepared for the 2nd International Conference on Probabilistic Safety Assessment and Management (PSAM-2) March 20-24, 1994 in San Diego, CA.

Application of the DOE and NRC Nuclear Safety Policy to Transportation Operations, principal author with G.M. Sandquist, Lawrence Livermore National Laboratory, UCRL-JC-115411, October 1993, paper prepared for the 2nd International Conference on Probabilistic Safety Assessment and Management (PSAM-2) March 20-24, 1994 in San Diego, CA.

Risk Assessment of Radioactive and Hazardous Materials in DOE Defense Package Transportation Accidents, coauthor with G.M. Sandquist, J.S. Bennion, J.E. Moore, D.M. Slaughter, Lawrence Livermore National Laboratory UCRL-JC-112752, December 1992, paper accepted by the International Journal of Radioactive Material Transport (RAMSTRANS) February 1993.

World Commercial Aircraft Accidents, 2nd Edition, 1946-1992, Lawrence Livermore National Laboratory UCRL-ID-112905, January 1993.

The "Glass" Control Room and Human Error in the Nuclear Power Plant, coauthor with C.T. Bennett, Lawrence Livermore National Laboratory UCRL-JC-110425, October 1992, paper prepared for the ANS Probabilistic Safety Assessment (PSA) Meeting January 27-29, 1993, in Clearwater, FL.

Risk Assessment of DOE Defense Program Packages in a Beyond 10 CFR 71.73 Transportation Accident Environment, coauthor with G.M. Sandquist, J.S. Bennion, and J.E. Moore, Lawrence Livermore National Laboratory UCRL-JC-110401, October 1992, paper prepared for the ANS Probabilistic Safety Assessment (PSA) Meeting January 27-29, 1993 in Clearwater, FL.

System Response of a DOE Defense Program Package in a Transportation Accident Environment, coauthor with T.F. Chen, and J. Hovingh, Lawrence Livermore National Laboratory UCRL-JC-110276, October 1992, paper prepared for the ANS Probabilistic Safety Assessment (PSA) Meeting January 27-29, 1993 in Clearwater, FL.

Transportation System Risk Assessment on DOE Defense Program Shipments, coauthor with G.P. Brumburgh, H.P. Alesso, and P.G. Prassinis, Lawrence Livermore National Laboratory UCRL-JC-110250, October 1992, paper prepared for the ANS Probabilistic Safety Assessment (PSA) Meeting January 27-29, 1993 in Clearwater, FL.

World Commercial Aircraft Accidents, 1st Edition, 1946-1991, Lawrence Livermore National Laboratory UCRL-ID-110003, February 1992.

Recent DOE and NRC Reactor Maintenance Regulations, coauthor with G.M. Sandquist, and J.S. Bennion, paper published by the Nuclear Plant Journal, September-October 1991, Vol. 9, No. 5, pg. 46-54.

Risk Assessment for the Transportation of Nuclear Materials, coauthor with G.M. Sandquist, and J.S. Bennion, paper prepared for the ANS Winter Meeting November 10-14, 1991 in San Francisco, CA.

Accident Analysis and Safety Review of DOE Category B Reactors, Lawrence Livermore National Laboratory UCRL-102683, paper prepared for the IANS Topical Meeting on the Safety, Status, and Future of Noncommercial Reactors and Irradiation Facilities September 30-October 4, 1990 in Boise, ID

Technical Evaluation Report of the Fort St. Vrain Final Draft Upgraded Technical Specifications, Lawrence Livermore National Laboratory UCID-21738, July 1989.

Evaluation of External Hazards to Nuclear Power Plants in the United States, principal author with P.G. Prassinis, Lawrence Livermore National Laboratory UCID-21223, Supplement 2, U.S. Nuclear Regulatory Commission NUREG/CR-5042, February 1989.

Seismic Failure and Cask Drop Analyses of the Spent Fuel Pools at Two Representative Nuclear Power Plants, coauthor with P.G. Prassinis, D.B. McCallen, R.C. Murray, M.K. Ravindra, R.D. Campbell, P.S. Hashimoto, A.M. Nafday, and W.H. Tong, Lawrence Livermore National Laboratory UCID-21425, U.S. Nuclear Regulatory Commission NUREG/CR-5176, January 1989.

Supplemental Technical Evaluation of Detailed Control Room Design Review for Rochester Gas and Electric Company's R.G. Ginna Nuclear Plant, coauthor with G.L. Johnson, and E.E. Schultz, Jr., Lawrence Livermore National Laboratory UCID-21227, August 1988.

Evaluation of External Hazards to Nuclear Power Plants in the United States, principal author with R.J. Budnitz, Lawrence Livermore National Laboratory UCID-21223, U.S. Nuclear Regulatory Commission NUREG/CR-5042, December 1987.

Shipping Container Response to Severe Highway and Railway Accident Conditions, Appendices, coauthor with L.E. Fischer, C.K. Chou, M.A. Gerhard, R.W. Martin, R.W. Mensing, M.E. Mount, and M.C. Witte, Lawrence Livermore National Laboratory UCID-20733 Vol. 2, U.S. Nuclear Regulatory Commission NUREG/CR-4829, February 1987.

Shipping Container Response to Severe Highway and Railway Accident Conditions, Main Report, coauthor with L.E. Fischer, C.K. Chou, M.A. Gerhard, R.W. Martin, R.W. Mensing, M.E. Mount, and M.C. Witte, Lawrence Livermore National Laboratory UCID-20733 Vol. 1, U.S. Nuclear Regulatory Commission NUREG/CR-4829, February 1987.

Digraph Matrix Analysis for Systems Interactions at Indian Point Unit 3 coauthor with H.P. Alesso, T. Altenbach, P.G. Prassinis, D.A. Lappa, C.J. Patenaude, I.J. Sacks, B.C. Ashmore, D.C. Fromme, M.V. Hershberger, C.F. Smith, and W.J. Williams, Lawrence Livermore National Laboratory UCID-20350, Vol. 1, U.S. Nuclear Regulatory Commission NUREG/CR-4179, January 1986.

An Evaluation of Current Regulations and Real Accident Conditions, coauthor with L.E. Fischer, and M.C. Witte, Lawrence Livermore National Laboratory UCRL-92459, April 1985, paper prepared for the Waste Management '85 Conference March 24, 1985 in Tucson, AZ.

Categorization of PWR Accident Sequences and Guidelines for Fault Trees: Seismic Initiators, Lawrence Livermore National Laboratory UCID-20211, September 1984.

Digraph Matrix Analysis Applications to Systems Interactions, coauthor with H.P. Alesso, T. Altenbach, D. Lappa, I.J. Sacks, B.C. Ashmore, D. Fromme, C.F. Smith, and W. Williams, Lawrence Livermore National Laboratory UCRL-90116, January 1984, paper prepared for the 1984 ANS Annual Meeting, June 3-8, 1984 in New Orleans, LA.

Probabilistic Assessment of Spent Fuel Shipping Cask Response to Severe Transportation Accident Conditions, Report Summary, coauthor with L.E. Fischer, and M.C. Witte, Lawrence Livermore National Laboratory UCRL-91471, paper prepared for the ANS/ENS Topical meeting on Probabilistic Safety Methods and Applications, February 24-28, 1984 in San Francisco, CA.