



**PHIL RUTHERFORD**  
**CURRICULUM VITAE (CV)**

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## CURRENT POSITION, SERVICES AND CLIENTS

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**PHIL RUTHERFORD Consulting**



Radiation safety  
Radiological risk assessment  
Nuclear decommissioning

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**Phil Rutherford**  
*President*  
*Phil Rutherford LLC*

## SERVICES

Providing consulting services and online resources in radiation safety, environmental radiological risk assessment and nuclear decommissioning since 2015.

## CLIENTS

- [Allergan](#) (2017)
- [Biolaerus Inc.](#) (2018-2019)
- [The Boeing Company](#)
  - [Santa Susana](#) (2016-2020)
  - [Seattle - Puget Sound](#) (2017)
  - [Huntington Beach](#) (2017-2018)
- [California Department of Public Health - Radiologic Health Branch](#) (2016-2018)
- [Centers for Disease Control and Prevention \(CDC\) - National Institute for Occupational Safety and Health \(NIOSH\)](#) (2017-2018)
- [CH2M Hill Inc.](#) (2016-2017)
- [Dominion Engineering Inc.](#) (2015)
- [Investigative Post](#) (2015)
- [Jacobs Engineering](#) (2018-2020)
- [MJW Companies](#) (2017)
- [MWH Americas Inc.](#) (2016)
- [Oak Ridge Associated Universities](#) (2017-2018)
- [Reuters](#) (2018)
- [Sage Veterinary Centers](#) (2019)
- [Sensor Kinesis](#) (2018)
- [Stantec Consulting Services Inc.](#) (2017-2020)
- [ToxStrategies](#) (2016)



## EXPERIENCE SUMMARY

Forty seven years of experience in the nuclear industry, with leadership and management responsibility for many aspects of nuclear plant reliability, safety analysis and probabilistic risk assessment (PRA) for LWRs, LMFBs and nuclear space power systems, health physics, radiation safety, radiological risk assessment, nuclear decommissioning, radiation worker epidemiology studies, community cancer studies, legislative affairs, litigation, waste management & disposal, interpretation of radiological data for soil, groundwater, surface water and air, community relations, media relations, records management, health & safety, DOE compensation programs, historical site assessments, and space nuclear safety.

Currently, President of Phil Rutherford *Consulting*, providing consulting services and online resources in radiation safety, environmental radiological risk assessment and nuclear decommissioning since 2015.

Until 2015, responsible for Boeing's radiation, health & safety programs at Boeing's Santa Susana Field Laboratory (SSFL), including the Department of Energy's (DOE) radiological cleanup of the Energy Technology Engineering Center (ETEC).

Past member of numerous U.S. DOE committees and working groups relating to nuclear safety and reliability, including the "Joint DOE/Industry Man-Machine Interface Working Group" (1981-82), the "Joint DOE/Industry Reliability Working Group" (1984-1986) and the "Safety Advisory Panel for the New Production Reactor" (1990-1992).

Current member of the Health Physics Society (2000 - present) and Past Chairperson of the California Radioactive Materials Forum (Cal Rad Forum). Past member of the Institute of Physics (UK) (1972-1978), the Institute of Nuclear Engineers (UK) (1973-1978) and the American Nuclear Society (1974-1978).

Invited lecturer on "Occupational and Environmental Radiation Protection" at the School of Public Health, University of California - Los Angeles (UCLA) (1994, 1995, 1998).

Webmaster for:

- [www.philrutherford.com](http://www.philrutherford.com)
- [www.calradforum.org](http://www.calradforum.org) (now inactive, archived at <http://www.philrutherford.com/CalRadForum/>)

Past webmaster for:

- Boeing Santa Susana Radiation Safety web site (past webmaster)

Past contributor to:

- [www.etc.energy.gov](http://www.etc.energy.gov) (DOE's Energy Technology Engineering Center web site)



## ENGINEERING AND MANAGEMENT POSITIONS

### **2015 - Present President, Phil Rutherford LLC**

Providing consulting services and online resources in radiation safety, environmental radiological risk assessment and nuclear decommissioning.

### **2006 - 2015 Senior Manager, Health, Safety & Radiation Services, Santa Susana Field Laboratory, The Boeing Company**

Led a department of up to 10 professional and technical personnel. Oversaw the health & safety program for the remediation work at the Santa Susana Field Laboratory. Managed the radiological safety program for nuclear facilities undergoing decontamination and decommissioning for the DOE, and ensured compliance with federal, state and local regulations related to both radiological safety and environmental monitoring. Key tasks for the department were the performance of final status radiological surveys of facilities and land to demonstrate acceptability for release for unrestricted use, and subsequent waste management, characterization and disposal of soil and building debris.

### **2004 Rocketdyne Propulsion & Power, The Boeing Company**

Nuclear Safety Integrated Project Team Lead for the Jupiter Icy Moons Orbiter (JIMO) Phase A, Task 2 study contract and the JIMO Phase B proposal to NASA's Jet Propulsion Laboratory (JPL).

### **1998 - 2006 Senior Manager, Radiation Safety, Santa Susana Field Laboratory, The Boeing Company**

Managed a department of 10 professional and technical personnel. The department enforced a radiological safety program for numerous nuclear facilities undergoing decontamination and decommissioning for the DOE, and ensured compliance with federal, state and local regulations related to both radiological safety and environmental monitoring.

### **1996 - 1997 Senior Manager, Environmental Remediation, Rocketdyne Propulsion & Power, Boeing Space Systems**

As part of a re-organizational change the existing radiation protection group (see below) was merged with another group whose function included many forms of chemical remediation. As a result, responsibilities also included groundwater monitoring and remediation and soils remediation for all Rocketdyne facilities. Managed an annual budget of \$7m and a staff of 22 environmental and radiation safety engineers.

### **1990 - 1995 Manager, Radiation Protection & Health Physics Services, Rocketdyne Division, Rockwell International**

Headed a department of up to 22 professional and technical personnel. The department enforced a radiological safety program for several nuclear facilities undergoing decontamination and decommissioning for the DOE, and ensured compliance with federal, state and local regulations related to both radiological safety and environmental monitoring. A key task of the department was the performance of final radiological surveys of facilities and land to demonstrate acceptability for release for unrestricted use.

### **1989 - 1990 Manager, Nuclear Safety & Reliability Engineering, Rocketdyne Division, Rockwell International**

Led a team of technical specialists in the safety and reliability arena that performed such design-specific engineering activities as failure modes and effects analyses, nuclear system/component reliability assessments, radiological consequence assessments for nuclear accidents, risk assessments, and safety assessments of ground based and space nuclear systems.

### **1978 - 1989 Member of Technical Staff, Rocketdyne Division, Rockwell International**

Responsible for the planning, managing and performance of all reliability and risk assessment programs of Rocketdyne's terrestrial and space nuclear projects. These included the Large-Scale Prototype Breeder (LSPB), the Sodium Advanced Fast Reactor (SAFR), the Multi-Megawatt Terrestrial Power Plant



(MTP) and the Dynamic Isotope Power Subsystem (DIPS). Areas of expertise included reliability and PRA code development and analysis, common cause failure analysis, man-machine interface, lessons learned from LWR operating experience, core and containment response analysis, sodium fires and aerosols, radiological transport and dose analysis, reactor physics and heat transfer.

#### **1973 - 1978 South African Atomic Energy Board (AEB)**

Senior scientist in the regulatory branch of the AEB, responsible for core physics and accident analysis for the Koeberg Nuclear Power Station. Specific projects included development of computer codes for fuel clad swelling and rupture, and fission product release following loss-of-coolant accidents. Performed the first probabilistic risk assessment for the Koeberg PWR.

#### **1974 - 1975 General Electric's Nuclear Energy Division**

Visiting engineer for one year, performing core physics and transient analyses for the Shoreham and Brunswick BWRs. These included reactivity insertion accidents, critical control rod patterns, shutdown margins, plant transients and reactor vessel overpressure protection.

## EDUCATION AND TRAINING

Year(s)	Degree	Subject	Institution
1971	M.A.	Physics	University of Oxford (UK)
1972	M.S.	Nuclear Engineering	University of Birmingham (UK)
1974 -1975		Numerous nuclear engineering classes	General Electric's Nuclear Energy Division
1978 - 1996		Numerous company training classes	Rockwell International Corporation
1981	Diploma	Human Reliability	University of Wisconsin
1983	Diploma	Risk Management	University of California, Los Angeles
1987	Diploma	Project Management	West Coast University
1990	Diploma	DOE Orders Training	U.S. Department of Energy
1992	Diploma	Analysis of Environmental Radioactivity	Georgia Institute of Technology
1993	Diploma	Environmental Regulations	Executive Enterprises Inc.
1994 - 2010		Numerous continuing education classes	Health Physics Society (HPS)
1996 - 2015		Numerous company training classes	The Boeing Company
1998	Diploma	MARSSIM Radiological Survey Protocols	Oak Ridge Institute of Science & Education
2001	Diploma	RESRAD, RESRAD-Build and RESRAD Probabilistic	Argonne National Laboratory
2015	Certificate	Requirements for Shipping Radioactive Material (DOT, NRC, IATA)	Dade Moeller Training Academy



## AWARDS AND RECOGNITION

- Certificate of Appreciation from the Boeing Law Department, "For outstanding service to the company and support to our legal efforts." October 22, 2015.
- Boeing Recognition Program, "This award is presented to show the Law Department's appreciation for the special effort and support you gave to litigation matters. Your knowledge and hard work contributed to the resolution of these matters. Thank you for your dedication and diligence in supporting the Law Department." May 23, 2014.
- Service Award, "In appreciation of 35 years of valued service with The Boeing Company. Thank you for being an integral part of building our future as global enterprise." September 20, 2013.
- Certificate of Recognition, "In appreciation of your effort in securing the Department of Energy contract extension." December 2011.
- Boeing Recognition Program, "In recognition of your outstanding performance and invaluable contributions as a member of the SB 990 Litigation Team. Your skills and efforts have contributed immeasurably to our success in overturning Senate Bill 990." October 26, 2011
- Boeing Recognition Program, "In recognition of your exceptional leadership efforts while supporting the Crisis Management Working Group during the aftermath of the Japan earthquake, tsunami and Fukushima nuclear crisis." June 14, 2011.
- Boeing Recognition Program, "In recognition of your outstanding performance and invaluable contributions to the Environmental Remediation Program. Your skills and efforts have contributed immeasurably to our success. Thank you for your dedication." October 9, 2009.
- Boeing Recognition Program, "In recognition of your contributions to the successful capture of DOE's ETEC Site Closure Contract." July 9, 2009.
- Safety Recognition Award, "For your outstanding contribution to the promotion of safety throughout SSFL. Your efforts have resulted in a safer workplace." December 12, 2006.
- Achievement Award, "For your significant contributions to the Rocketdyne Nuclear Training Course." June 13, 2005
- Certificate of Appreciation, "In recognition of your sustained, outstanding contributions toward the Boeing Team's capture phase and proposal for the Jupiter Icy Moons Orbiter Project." October 2004.
- Service Award, "In appreciation of 25 years of valued service to The Boeing Company." September 20, 2003.
- Excellence Award, "In Recognition of Continued Excellence in the Ongoing Support of Communicating Radiological Issues to Elected Officials, the Media and the Community." December 2002.



- ALARA Award, "In appreciation for your presentation supporting the 4<sup>th</sup> Hanford ALARA Workshop." Richland, Washington, October 21-23, 2002,
- Certificate of Appreciation, "To everyday heroes in education." Los Angeles Unified School District Volunteer Program. May 2, 2002.
- Career Day Award, "For outstanding community spirit as a participant in Welby Way Elementary School's Annual Career Day Celebration." April 27, 2001.
- Career Day Award, "For outstanding community spirit as a participant in Welby Way Elementary School's Annual Career Day Celebration." June 1, 2000.
- Certificate of Recognition, "In Recognition of Your Involvement in Support of Boeing Canoga Park Community Outreach Programs." 2000.
- Bias for Action Award, "For Outstanding Customer Focus in Exceeding Expectations for the Release of the Chemical Portion of the Worker Health Study", November 1999.
- Customer Satisfaction Award, "Worker Health Study Team." November 1999.
- Nominated for the Rocketdyne "Jack Weil Leadership Award", September 1998.
- Rocketdyne Safety, Health & Environmental Affairs Award, "Communicating the Results of the Rocketdyne Worker Health Study to Employees and the Community", May 1998.
- Team Recognition Award, "For your outstanding contribution to develop and implement a comprehensive strategy for communicating the Worker Health Study results, which accomplished reputation management, financial risk limitation, customer satisfaction and employee communication." December 1997.
- Certificate of Appreciation, "Recognizing your outstanding contribution to Rocketdyne's 40<sup>th</sup> Anniversary Open House Celebration." 1996.
- Rocketdyne Special Achievement Award, "Keeping the Santa Susana Field Laboratory Area IV Environmentally Sound and Compliant with All Regulations", January 1994.
- Rocketdyne Achievement Award, "Outstanding Contribution to the Space Power and DIPS Proposals", January 1988.
- Best Paper Award, 1982 Winter Meeting of the American Nuclear Society, "Lessons Learned from Major Core Damage Accidents." October 1982



## SELECTED PUBLICATIONS

Authored or co-authored numerous papers, presented at local, national and international conferences and seminars, some of which are presented below.

- P. D. Rutherford, "[Radiation Risks in Everyday Life.](#)" Presented at the 2010 Health Physics Society Midyear Meeting on Radiation Risk Communication to the Public. Albuquerque, New Mexico, January 27, 2010
  - [Abstract](#)
- P. D. Rutherford, "[Radiological Operations and Cleanup at SSFL Area IV - ETEC Closure Project.](#)" Presented to the Southern California Chapter of the American Industrial Hygiene Association, California State University, Northridge. March 12, 2009.
- P. D. Rutherford, "[Radiation Risk & Cleanup Standards.](#)" Presented at the 2007 Health Physics Society Midyear Topical Meeting on Decontamination, Decommissioning and Environmental Cleanup. Knoxville, Tennessee. January 23, 2007.
  - [Presentation.](#) [DOE Source.](#)
  - [Paper.](#) [DOE Source.](#)
- P. D. Rutherford, M. E. Lee, R. Marshall, E. R. McGinnis, B. Sujata and D. M. Trippeda, "[Radiological Remediation at the Department of Energy's Energy Technology Engineering Center.](#)" Presented at the 50<sup>th</sup> Annual Health Physics Society Meeting. Spokane, Washington. July 14, 2005
- P. D. Rutherford, "[Radiological Remediation in Area IV of the Santa Susana Field Laboratory.](#)" Presented to the Board of Directors of California Radioactive Materials Management Forum. La Jolla, California. October 28, 2004.
- P. D. Rutherford, "Radiation and Radioactivity." Presented to the Radiation Monitoring Workshop of the City of Los Angeles Environmental Affairs Department." August 28, 2003.
- P. D. Rutherford, E. R. McGinnis and N. Liu, "[Implementation of the ALARA Process in the DOE Cleanup and Closure of the Energy Technology Engineering Center.](#)" Presented to the 4<sup>th</sup> Annual ALARA Workshop, Richland, Washington, October 21-23, 2002
- P. D. Rutherford, "[Environmental Assessment of the Cleanup and Closure of the Energy Technology Engineering Center.](#)" Invited lecture given to the Southern California Chapter of the Health Physics Society, Los Angeles, March 20, 2002.
- S. N. Shah, R. B. Hardy, M. E. Lee, A. Klein, M. J. Sullivan, J. G. Barnes, and P. D. Rutherford, "[A Regulatory Perspective of the Restoration for the Former Sodium Disposal Facility at the Energy Technology Engineering Center.](#)" Presented at the Waste Management Conference (WM2000). Tucson, March 1, 2000.
- P. D. Rutherford, J. G. Barnes and A. Klein, "[Remediation of a Radioactively Contaminated Sodium Disposal Facility.](#)" IAEA-SM-359/P-20. International Atomic Energy Agency Symposium on Restoration of Environments with Radioactive Residues. Washington D.C. November 29 - December 3, 1999.





- P. D. Rutherford, "[Rocketdyne Worker Health Study](#)", Invited Paper presented to the Low-Level Radioactive Waste Forum, San Diego, February 11, 1998.
- P. D. Rutherford, "[Rocketdyne Worker Health Study](#)", Invited Paper presented to the Southern California Chapter of the Health Physics Society, Los Angeles, October 10, 1997.
- P. D. Rutherford, "Field Soil Segregation of Mixed Hazardous Waste at ETEC's Sodium Disposal Facility", presented at the Third National Meeting on the Department of Energy EM-30 Hazardous Waste Moratorium, Salt Lake City, April 8, 1993.
- P. D. Rutherford, "Overview of ETEC's Response to the DOE Hazardous Waste Moratorium", presented at the Third National Meeting on the Department of Energy EM-30 Hazardous Waste Moratorium, Salt Lake City, April 8, 1993.
- S. M. Azizi and P. D. Rutherford, "[Automation of the Markov Theorem for the Solution of Multistate System Probabilities](#)", presented at the 17th Inter-RAM Conference for the Electric Power Industry, San Francisco, May 1990.
- P. D. Rutherford, D. S. Burgess and S. Robb, "Reliability Assurance of Turbine Energy Conversion Systems", American Nuclear Society 1989 Winter Meeting, San Francisco, November 26-30, 1989.
  - [Paper](#)
  - [Presentation](#)
- S. M. Azizi, G. E. Berg, J. H. Burton, R. E. Durand, E. M. Larson, D. J. Pepe, and P. D. Rutherford, "Fort St. Vrain Fuel Handling System RAM Analysis", American Nuclear Society 1989 Winter Meeting, San Francisco, November 26-30, 1989.
- P. D. Rutherford, "[An Assessment of the Low Seismic Risk of the Inherently Safe Sodium Advanced Fast Reactor](#)", 1988 Topical Meeting on the Safety of the Next Generation Power Reactors, Seattle, Washington, May 1988.
- R. D. Rogers, R. T. Lancet, J. E. Mills and P. D. Rutherford, "Inherent Safety Features and Licensing Plan of the SAFR Plant", International ANS Conference on Fast Breeder Systems, Richland, Washington, September 1987.
- P. D. Rutherford, J. C. Mills, R. T. Lancet and P. Nourjah, "[A Risk Assessment of the Sodium Advanced Fast Reactor \(SAFR\) Plant](#)", International ANS/ENS/SNS Topical Conference on Probabilistic Safety Assessment and Risk Management, Zurich, Switzerland, September 1987.
- W. E. Kastenberg and P. D. Rutherford, "[Economic Risk Models for Advanced Liquid Metal Reactors](#)", International ANS/ENS/SNS Topical Conference on Probabilistic Safety Assessment and Risk Management, Zurich, Switzerland, September 1987.
- J. E. Mills, R. T. Lancet and P. D. Rutherford, "Inherent Safety Means Near Zero Risk for the SAFR Plant", ASME Annual Meeting, Anaheim, California, December 1986.
- P. D. Rutherford, H. W. Ho, J. A. Hartung and W. E. Kastenberg (UCLA), "A Rationale for Reduced Tornado Design Bases", 1985 International ANS/ENS Topical Meeting on Fast Reactor Safety, Knoxville, Tennessee, April 1985.



- [Paper](#)
- [Presentation](#)
  
- J. Hartung, H. Ho, R. Lancet, P. D. Rutherford and E. Vaughan, "The Statistical Correlation Model for Common-Cause Failures", 1983 Annual Conference of the Society for Risk Analysis, New York, August 1-3 1983.
  
- J. A. Hartung and P. D. Rutherford, "[Lessons Learned from Major Core Damage Accidents](#)", 1982 ANS Winter Meeting, Washington DC, Transactions of the American Nuclear Society 43, 676, December 1982. Award Winner.
  
- P. D. Rutherford, "Operating Experience Evaluation", Joint LWR/LMFBR Workshop on Man-Machine Interface, Santa Clara, California, November 1982.



## TESTIMONY GIVEN BEFORE LEGISLATIVE BODIES

Testimony given before local and state legislature includes,

- "Opposition to Senate Bill SB 990, Hazardous Waste – Santa Susana Field Laboratory (Kuehl)." Testimony given before the Environmental Quality Committee of the California State Senate. April, 2007
- "Opposition to Senate Bills SB 1444, SB 1970 and SB 2065." Testimony given before the Environmental Safety & Toxic Materials Committee of the California State Assembly. June 25, 2002
- "Opposition to Senate Bill SB 1444, Radiation Contamination Prevention Act (Kuehl)." Testimony given before the Environmental Quality Committee of the California State Senate. April 22, 2002
- "Disposal of Construction Debris at the Bradley Landfill." Testimony given before the Environmental Quality and Waste Management Committee of the Los Angeles City Council. April 16, 2002



## PUBLIC AND COMMUNITY OUTREACH

The following is a selection of public outreach lectures and talks given to schools, professional societies, chambers of commerce, homeowners associations and local industry/commerce organizations.

- "Sodium Reactor Experiment Accident." Prepared for the Joint Woodland Hills and Canoga Park Neighborhood Councils Public Meeting on Santa Susana (Presentation Cancelled). October 20, 2014.
- "[Engineering - Nuclear Physics & Engineering - Radiation & Radioactivity - My Job at Boeing.](#)" Presented to the Carson High School Grade 9 Math Class. Carson, California. June 17, 2009.
- "Santa Susana Field Laboratory – Radiological Topics." Presented at a Bell Canyon Homeowners Association Town Hall Meeting. November 12, 2006.
- "Santa Susana Field Laboratory – Radiological Topics." Presented to Members of the Simi Valley City Council. October 10, 2006.
- "Radiation Cleanup at the Energy Technology Engineering Center." Talk given to the Simi Valley Chamber of Commerce Business Development Roundtable. Simi Valley, California. July 20, 2005.
- "Radiation Cleanup Regulations and Pending California Senate Legislation." Talk given to the Canoga Park/West Hills Chamber of Commerce. West Hills, California. July 18, 2002.
- "Radiation Cleanup Regulations and Pending California Senate Legislation." Talk given to the United Chambers of Commerce of the San Fernando Valley. Granada Hills, California. July 10, 2002.
- "Opposition to Senate Bill SB 1444 (Kuehl)." Talk given to the Government Affairs Committee of the Woodland Hills Chamber of Commerce. Woodland Hills, California. June 27, 2002.
- "Disposal of Construction Debris at the Bradley Landfill." Talk given to the Legislative Action Committee of the Chatsworth Chamber of Commerce, Chatsworth, California. May 2, 2002.
- "Environmental Cleanup at SSFL." Luncheon talk given to the Santa Susana Kiwani's Club, Simi Valley California. November 20, 2001
- "[Radiation and Radioactivity.](#)" Lecture given the 3rd grade magnet classes at the Welby Way Elementary School Career Day. West Hills, California. April 27, 2001.
- "Environmental Programs at Rocketdyne's Santa Susana Field Laboratory." Lecture given to the Environmental, Infrastructure and Water Committee of the Valley Industry and Commerce Association. Los Angeles, California. October 5, 2000.



- "Radiological Cleanup at Santa Susana - How Clean is Clean? - How Safe is Safe?" Lecture given to the San Fernando Valley Chapter of the National Contract Management Association. Chatsworth, California. September 21, 2000.
- "[Radiation and Radioactivity](#)." Lecture given to the 8th grade honors math class of Sun Valley Middle School. Sun Valley, California. June 22, 2000.
- "[Engineering, My Job, and Rocketdyne](#)." Lecture given to the 2nd grade magnate classes at the Welby Way Elementary School Career Day. [Speaking Notes](#). West Hills, California. June 1, 2000.
- "[What is an Engineer?](#)" Lecture given to the 7th grade honors math class of Sun Valley Middle School, Sun Valley, California. [Speaking Notes](#). June, 1999.
- Numerous community outreach activities including Santa Susana bus tours, SSFL Workgroup public meetings, DOE public meetings, home-owner association meetings, and student science fairs.



## INVITED UNIVERSITY LECTURES

The following were invited lectures given to university graduate schools.

- "Occupational Radiation Protection", Center for Occupational and Environmental Health, UCLA School of Public Health, January 28, 1994
- "Environmental Radiation Protection", Center for Occupational and Environmental Health, UCLA School of Public Health, February 4, 1994
- "Occupational Radiation Protection", Center for Occupational and Environmental Health, UCLA School of Public Health, April 4, 1995
- "Environmental Radiation Protection", Center for Occupational and Environmental Health, UCLA School of Public Health, April 11, 1995
- "Occupational and Environmental Radiation Safety", Center for Occupational and Environmental Health, UCLA School of Public Health, October 26, 1998



## BRIEFINGS AND PRESENTATIONS (1985 to Present)

Briefings and presentations given to company management, customers, contractors, regulatory agencies, media, public, legislators and legislative staffers are too numerous to mention. A selection of the most recent presentations since 1985 is given here.

### 2015

- “EPA Radiological Survey Results and Conclusions.” Poster session presented to John Tracy, Boeing President of Engineering & Operations Technology (EO&T). October 12, 2015.
- “Energy Employees Occupational Illness Compensation Program Act (EEOICPA) – Transition from SSFL to Puget Sound.” Revision A. September 14, 2015.
- “Energy Employees Occupational Illness Compensation Program Act (EEOICPA) – Transition from SSFL to Puget Sound.” July 1, 2015.

### 2014

- “DOE ETEC Closure Project, Area IV, SSFL.” Presented to the Advisory Board for Radiation and Worker Health.” November 5, 2014.
- “Decontamination & Decommissioning (D&D) Contract.” Prepared for presentation to EHS Executive Management. June 26, 2014.
- Radioactive Material Handling Facility (RMHF) Leach Field Coring Project.” Prepared for presentation to University of Guelph, Haley & Aldrich, CDM Smith, Cabrera Services and B.L. Hall. June 4, 2014.
- “Radiological Cleanup at SSFL Area IV - DOE ETEC Closure Project.” Generic Presentation. May 2014.
- “Enterprise Plan for Disposal of Smoke Detectors.” Presented to the Radiation Safety Process Management Team (PMT). March 11, 2014.
- “DOE ETEC Closure Project - RTP Procurement - Area IV Site History.” Presented to the DOE Contract Selection Team.” February 11, 2014.

### 2013

- “Radiological Cleanup at SSFL Area IV - DOE ETEC Closure Project.” Presented to the Boeing Radiation Safety Technical Community (RSTC). December 17, 2013.
- “Area I Burn Pit Radiological Briefing.” Presented to CH2M Hill and Cabrera field staff. December 5, 2013.
- “Generic Santa Susana Tour Book.” May 30, 2013.
- “Site Tour of the Santa Susana Field Laboratory - Tour Book.” Presented to Radiation Safety Process Management Team (PMT). April 16, 2013.



- “EPA Radiological Survey Results and Conclusions.” Presented to John Tracy, Boeing President of Engineering & Operations Technology (EO&T). Meeting cancelled. January 17, 2013.

**2012**

- “Santa Susana Tour Book.” Presented to Dave Huizenga (EM-1), DOE Assistant Secretary for Environmental Management, November 29, 2012.
- “Congressional Site Tour and Project Close-out. EPA’s Radiological Characterization Study of SSFL.” Presented to EPA Executive Staff and California & Federal Legislative Staffers. September 12, 2012.
- “Site Tour. Santa Susana Field Laboratory.” 13<sup>th</sup> EPA Superfund National Radiation Conference. June 18, 2012.
- “SSFL Nuclear History and Status.” Presented to Kim Smith, V.P. Environment, Health & Safety. February 2, 2012.
- “Generic SSFL Presentation Charts.” January 24, 2012.
- “Worker and Community Health Studies.” January 12, 2012.

**2011**

- “Radiological Update for Boeing Employees in Japan.” Presented to All Boeing Management and Employees in Japan. November 22, 2011.
- “Radiological Briefing for Boeing Visitors to Japan (Areas Outside the 80 Km Radius).” Presented to the 787 Service Ready Operational Validation (SROV) Team, Rolling Out the First 787 delivered to ANA in Japan. June 11, 2011.
- “Radiological Briefing for Boeing Visitors to Japan (Areas Outside the 80 Km Radius).” Guidance for Boeing employees visiting Japan outside the 80 km zone. June 6, 2011.
- “Conduct of Operations in Areas Affected by the Fukushima-Daiichi Nuclear Accident.” Training and guidelines for proposed visits inside the 80 Km zone. Co-authored with Jim Barnes and John Pickering. May 24, 2011.
- “Radiation Primer.” Guidance for Boeing employees visiting Soma, Japan. May 17, 2011.
- “Supplier Visits.” Guidance for Boeing employees visiting Japanese suppliers within the 80 Km zone. Co-authored with Jim Barnes. May 15, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 20, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 18, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 17, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 15, 2011.





- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 14, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 13, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 11, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 10, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 9, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 8, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 7, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 6, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 5, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 4, 2011.
- “Return to Utsunomiya. Information and Guidelines to Employees.” Co-authored with Jim Barnes. April 4, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 3, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 2, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. April 1, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. March 31, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. March 30, 2011.
- “Japan Radiological Update.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. March 29, 2011.
- “Radiological Status.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. March 28, 2011.



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- “Radiological Status.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. March 26, 2011.
- “Radiological Status.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. March 25, 2011.
- “Fukushima Site Status and Radiological Status.” Presented to the Fukushima Crisis Management Team, Boeing-Japan Executive Management and Employees. Co-authored with Jim Barnes. March 24, 2011.
- “Radiological Status.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. Co-authored with Jim Barnes. March 23, 2011.
- “Radiological Status.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. March 22, 2011.
- “Radiological Status.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. March 19, 2011.
- “Worst Case Analyses and Projected Dose Rates.” Presented to the Fukushima Crisis Management Team and Boeing-Japan Executive Management. March 17, 2011.

**2010**

- “Radiological Cleanup at SSFL Area IV – ETEC Closure Project.” Presented to the Boeing Radiation Safety Technical Community. October 5, 2010.
- “Community Cancer Studies.” Presented to Jeanette Lombardo, Committee Member, Regional Water Quality Control Board. June 25, 2010.
- “Theoretical Radiation Risk in Perspective.” January 2010.

**2009**

- “Radiological Remediation and Monitoring.” Part of an Information Forum Presented to the Staff of Boeing EHS. September 28, 2009.

**2008**

- “Radiological Background for SSFL, Area IV.” Presented to EPA, HGL, DOE, DPH, DTSC and Public. December 2008.
- “Summary Status of Land Transfer and SB 990 Implementation.” May 27, 2008.
- “EEOICPA Claims Processing for ETEC.” Presented to Department of Labor and Department of Energy. May 15, 2008.
- “Area IV, SSFL, ETEC.” Presented to Julia Brownley, State Assemblyperson and Other Elected Official Staffers. April 25, 2008.
- “Radiological Operations and Cleanup at SSFL, Area IV - ETEC Closure Project.” Prepared for a Community Tour but not presented. March 28, 2008.



- “Radiological Operations and Cleanup at SSFL - ETEC Closure Project.” Presented to the Environmental Protection Agency, Region IX. March 27, 2008.
- “Radiological Operations and Cleanup at SSFL, ETEC Closure Project.” Presented to CH2MHill Personnel. March 19, 2008.
- “EPA Briefing and Tour of SSFL.” Presented to the Environmental Protection Agency, Region IX. Superfund Listing. March 11, 2008.
- “Energy Technology Engineering Center. DOE Operations and Radiological Cleanup at SSFL.” Presented to Tim Copes, Boeing Vice President. March 11, 2008.
- “Radiological Operations and Cleanup at SSFL, ETEC Closure Project.” Presented to CDM EIS Contractor, DOE. January 30, 2008.

### 2007

- P. D. Rutherford and J. McLaughlin, “EEOICPA Reasonable Search Procedures.” Presented at the Department of Labor District Office, Seattle, Washington. November 28, 2007.
- “Energy Technology Engineering Center (ETEC) Closure Project - DOE Operations and Radiological Cleanup at SSFL.” Presented to the EO&T Finance Leadership Team. November 1, 2007.
- “Department of Energy ETEC Closure Project.” Presented to Boeing EHS Management and Law Department. September 25, 2007.
- Phil Rutherford, “Linear No Threshold Model of Radiation Risk.” Revision A. September 10, 2007. [DOE source](#).
- Phil Rutherford, “Background Radiation.” Revision A. September 10, 2016. [DOE source](#).
- T. Gallacher and P. D. Rutherford, “Santa Susana Field Laboratory – EPA Tour.” Presented to Region IX, U. S. Environmental Protection Agency. August 16, 2007.
- M. Jackson, T. Gallacher and P. D. Rutherford, “Santa Susana Field Laboratory.” Presented to California State Assemblyman Cameron Smyth. July 25, 2007.
- T. Johnson and P. D. Rutherford, “Engineering Evaluation & Cost Analysis of the SNAP Environmental Test Facility (Building 4024).” Department of Energy Public Meeting, Simi Valley, California. February 21, 2007. [DOE source PowerPoint](#). [DOE source transcript](#).
- A. Lenox and P. D. Rutherford, “Santa Susana Field Laboratory – Environmental Remediation.” Presented to the Boeing Law Department and Kirkland & Ellis. February 19, 2007.
- “Energy Employees Occupational Illness Compensation Program Act.” Presented to the Department of Labor, the Department of Energy and Paragon Technical Services. February 6, 2007.
- “Department of Energy Closure of the Energy Technology Engineering Center.” Presented to Adolpho Bailon, District Director for U. S. Senator Barbara Boxer. February 6, 2007.

### 2006

- “DOE Closure of the Energy Technology Engineering Center – Radiological Topics.” Presented to Thomas Johnson, Deputy Federal Facilities Director. December 20, 2006.



- “Radiological Topics - Santa Susana Field Laboratory.” Presented to San Fernando and Simi Valley Realtors. December 2006.
- “Santa Susana Field Laboratory – Radiological Topics.” Presented to Boeing Management and Law Department. November 14, 2006.
- “Sodium Reactor Experiment.” Presented to the Staff of Pratt & Whitney Rocketdyne. Lunchtime Knowledge Management Lecture Series. November 10, 2006.
- P. D. Rutherford, “Radiation Safety for the DOE ETEC Closure Program.” Presented to Mr. Fitzmire, V. P. of Boeing Directed Energy Systems. November 9, 2006.
- “Santa Susana Field Laboratory – Radiological Topics.” Presented to Carol Wallisch (Chief of Staff) and Laura Plotkin (District Manager) for State Senator Sheila Kuehl. November 8, 2006.
- P. D. Rutherford, “Santa Susana Field Laboratory - Radiological Topics.” Presented to the Simi Valley City Council. October 10, 2006.
- P. D. Rutherford and A. Lenox, “Remediation at the Santa Susana Field Laboratory and the SRE Accident.” Presented to journalists from the Los Angeles Times, Daily News and Ventura County Star. October 3, 2006.
- P. D. Rutherford, “Radiation Safety for the DOE ETEC Closure Program.” Presented to Mr. Fitzmire, V. P. of Boeing Directed Energy Systems. August 28, 2006.
- P. D. Rutherford, “DOE Radiological Cleanup Process.” Presented to Mary Armstrong, Boeing Vice President of EHS. August 25, 2006.
- P. D. Rutherford and B. Sujata, “Accelerated Radiological Scope Completion.” Presented to Cynthia Anderson, DOE-EM. August 23, 2006.
- P. D. Rutherford, “Historical Site Assessment of Area IV – Objective and Near Term Future Work.” Presented to Cynthia Anderson, DOE-EM. August 22, 2006.
- P. D. Rutherford, “Hot Topics for the DOE ETEC Closure Program.” August 22, 2006.
- P. D. Rutherford, “Radiation Safety for the DOE ETEC Closure Program.” Presented to Mr. Fitzmire, V. P. of Boeing Directed Energy Systems. July 19, 2006.
- “Energy Employees Occupational Illness Compensation Program Act.” Presented to the Department of Labor. May 5, 2006.
- P. D. Rutherford, “Radiation Safety for the DOE ETEC Closure Program.” Presented to Mr. Fitzmire, V. P. of Boeing Directed Energy Systems. March 31, 2006.
- P. D. Rutherford, “Effect of Using True Variability in Baseline Cancer Rates.” Presented to Boeing Management. February 3, 2006.
- P. D. Rutherford, “Radiation Safety for the DOE ETEC Closure Program.” Presented to Mr. Fitzmire, V. P. of Boeing Directed Energy Systems. February 2, 2006.



### 2005

- M. E. Lee, A. Lenox and P. D. Rutherford, "Topanga Fire – Santa Susana Field Laboratory." Presented at the DOE Public Meeting, Simi Valley, California. November 15, 2005.
- P. Costa, A. Lenox and P. D. Rutherford, "Topanga Fire – Santa Susana Field Laboratory." Presented to staff of the Daily News and Ventura County Star. October 20, 2005.
- Phil Rutherford, "Topanga Fire – Santa Susana Field Laboratory – Radiological Assessment." October 20, 2005.
- P. Costa, A. Lenox and P. D. Rutherford, "Topanga Fire – Santa Susana Field Laboratory." Presented to staff of the Ventura County Air Pollution Control District, Ventura County Environmental Health Division, Ventura County Fire Department, Department of Toxic Substances Control, Regional Water Quality Control Board, Department of Energy and South Coast Air Quality Management District. October 13, 2005.
- "Radiation Cleanup Standards at the Santa Susana Field Laboratory." September 14, 2005.
- "Department of Energy (DOE) Public Meeting on the Energy Technology Engineering Center (ETEC) Closure Program." Simi Valley, California. June 22, 2005. (Participant).
- P. D. Rutherford, "Historical Site Assessment of the Hot Lab." June 14, 2005.
- P. D. Rutherford, "Follow-on Rocketdyne Worker Health Study." Presentation to the Staff of the Rocketdyne Health & Safety Department. April 5, 2005
- "Department of Energy (DOE) Public Meeting on the Energy Technology Engineering Center (ETEC) Closure Program." Simi Valley, California. March 22, 2005. (Participant).

### 2004

- "Department of Energy (DOE) Public Meeting on the Energy Technology Engineering Center (ETEC) Closure Program." Simi Valley, California. December 2, 2004. (Participant).
- Nuclear Power Training Seminar Series. Knowledge Management Program. Presented to the staff of Rocketdyne. Leadership and Learning Center. Canoga Park, California
  - "[Space Nuclear Safety](#)." November 18, 2004
  - "[Understanding Radiation and Its Effects](#)." November 3, 2004
- "Radiological Remediation in Area IV, SSFL." Presented to Tim Molloy, Associated Press. November 2, 2004
- "Radiation Cleanup Standards at SSFL." October 26, 2004.
- P. D. Rutherford, "Radiological Remediation in Area IV, SSFL." Presented to Amanda Star, Los Angeles Times. October 20, 2004.
- A. Lenox and P. D. Rutherford, "Environmental Cleanup at the Santa Susana Field Laboratory." Presentation and tour for Teresa Rochester, Ventura County Star. October 1, 2004.
- A. Lenox and P. D. Rutherford, "Environmental Cleanup at the Santa Susana Field Laboratory." Presentation and tour for John Bwanie, Office of Mayor James Hahn, City of Los Angeles.



September 22, 2004.

- A. Lenox and P. D. Rutherford, “Environmental Cleanup at the Santa Susana Field Laboratory.” Presentation and tour for Los Angeles City Council members, Dennis Zine and Greg Smith. September 16, 2004.
- A. Lenox and P. D. Rutherford, “Environmental Cleanup at the Santa Susana Field Laboratory.” Presentation and tour for Los Angeles County Environmental Agency staff. Patti Friedman, Assistant to L.A. County Supervisor Mike Antonovich, Mark McKowski, Upper L.A. River Area Watermaster, and Richard Wagoner, Director, L.A. County Bureau of Environmental Protection. September 10, 2004.
- “Department of Energy (DOE) Public Meeting on the Energy Technology Engineering Center (ETEC) Closure Program.” Simi Valley, California. September 9, 2004. (Participant).
- A. Lenox and P. D. Rutherford, “Environmental Cleanup at the Santa Susana Field Laboratory.” Presentation and tour for Craig Tranby, Los Angeles Environmental Affairs Department. August 20, 2004.
- A. Lenox and P. D. Rutherford, “Environmental Cleanup at the Santa Susana Field Laboratory.” Presentation and tour for Los Angeles County legislative staff. Patti Friedman, Assistant to L.A. County Supervisor Mike Antonovich, and Paul Novak, Planning Aide for L.A. County Supervisor Mike Antonovich. August 19, 2004.
- “Sodium Reactor Experiment – History, Operations, Accident, Remediation, Soil Sampling.” July 2004.
- “Jupiter Icy Moons Orbiter (JIMO) Nuclear Safety.” Presented to JIMO Project Management at the Jet Propulsion Laboratory. March 15, 2004.

### 2003

- “Santa Susana Field Laboratory Overview – Radiological Remediation.” Presentation to Amy Zimpfer and John Beach, U.S. EPA Region IX. September 19, 2003.
- “Radiological Cleanup at the Santa Susana Field Laboratory (Area IV).” August 13, 2003.
- “Strategy and Examples for a Historical Site Assessment of Area IV, SSFL.” Presented to DOE and DHS. Sacramento, California. August 5, 2003.
- “Radiological Cleanup for the DOE ETEC Site Closure Program (with Focus on the Landfill Disposal).” Presented to the management of Clean Harbors. February 20, 2003.
- “Radiological Surveys and Soil Sampling Conducted in Area IV, SSFL.” Presented to the Radiologic Health Branch, Department of Health Services. January 28, 2003.

### 2002

- “Radiological Surveys and Soil Sampling Conducted in Area IV, SSFL.” Presented to the Department of Energy Focus Team. December 4, 2002.
- “Radiological Cleanup for the DOE ETEC Site Closure Program (with Focus on the Landfill Disposal).” Presented to the Management of Waste Management Inc. October 9, 2002.



- “1994-95 Area IV Radiological Survey (with Focus on the Use of Soil Data).” Presented to the Management of U.S. EPA, Region IX, San Francisco and Las Vegas. October 4, 2002. [DOE source](#).
- “Radiological Cleanup for the DOE ETEC Site Closure Program (with Focus on the Landfill Disposal).” Presented to the management of Los Angeles County Sanitation District. September 16, 2002.
- “Radiological Cleanup at the Santa Susana Field Laboratory.” Presented to Lisa Mascaro, Daily News. September 11, 2002.
- “Implementation of the ALARA Process in the DOE Cleanup and Closure of the Energy Technology Engineering Center.” Presented to the Management of U.S. EPA, Region IX. April 4, 2002.
- “Radiation Risk - A Critical Look at Real and Perceived Risks from Radiation Exposure.” Presented to Boeing Management and McDaniel Lambert Inc. February 11, 2002.

### 2001

- “EPA Survey of Prior Radiological Buildings.” Presented to U.S. EPA, Tetra-Tech, Media, Legislative Staff and Community Members. October 2-4, 2001.
- “Briefing and Tour of Area IV, SSFL.” EPA Region IX and EPA Las Vegas. June 8, 2001
- “Radiological Soil Background Relevant to Cleanup at SSFL.” Presented to the Management of USDOE, USEPA, DHS and DTSC. February 23, 2001.
- “Current Radiological Issues Related to the DOE ETEC Site Closure Program.” Briefing Package Provided to the Department of Health Services Radiologic Health Branch. January 25, 2001.

### 2000

- “Current Radiological Issues Related to the DOE ETEC Site Closure Program.” Briefing Package Provided to the Inter-Agency Steering Committee on Radiation Standards. November 2000.
- “Radiological Soil Background Relevant to Cleanup at SSFL.” Presented to the Management of USDOE, USEPA, DHS and DTSC. November 15, 2000.
- “EPA Survey of Building 4059.” Presented to U.S. EPA, Tetra-Tech, Media, Legislative Staff and Community Members. October 24-25, 2000.
- “Environmental Status at the Santa Susana Field Laboratory.” Presented to Management of the Agency for Toxic Substances Disease Registry (ATSDR), the Eastern Research Group (ERG), and the University of California at Los Angeles (UCLA). October 13, 2000.
- “Environmental Programs at Rocketdyne’s Santa Susana Field Laboratory.” Presented to the Department of Health and Human Services. October 12, 2000.
- “Radiological Soil Background Relevant to Cleanup at SSFL.” Presented to the Management of USDOE, USEPA, DHS and DTSC. October 11, 2000.
- “Environmental Programs at Rocketdyne’s Santa Susana Field Laboratory.” Presented to the Department of Health and Human Services. October 5, 2000.
- “Key Issues.” August 23, 2000.



- “Radiation Cleanup Standards.” Presented to the staff of the DOE Inspector General. August 16, 2000.
- Majelle Lee and Phil Rutherford, “Energy Technology Engineering Center - Site Closure Program.” Presented to James Fiore, DOE Environmental Management. August 10, 2000.
- “Radiological Operations at SSFL.” Presented to the Agency for Toxic Substances Disease Registry. August 1, 2000.
- “Radiological Facilities at SSFL and De Soto – A Pictorial History.” Presented at the Worker Health Study Phase II Bidders Conference. July 18, 2000.

**1999**

- “Rocketdyne Worker Health Study Phase I.” Presented to the Worker Health Study II Science Committee. December 20, 1999.

**1988**

- [“SAFR Presentation to the NRC - Probabilistic Risk Assessment \(PRA\)”](#), Presentation to the U.S. Nuclear Regulatory Commission, March 25, 1988.
  - Introduction R. T. Lancet
  - [Answers to NRC Questions 1 to 8 and 16](#) P. D. Rutherford
  - Answers to NRC Questions 9, 10, 11 D. Pedersen
  - Answers to NRC Questions 12, 13, 14, 15 R. D Rogers
  - Summary R. T. Lancet

**1987**

- [“Sodium Advanced Fast Reactor \(SAFR\) Presentation to the NRC PSID Review - PRA and Emergency Planning \(Appendices C and F\)”](#), Presented to the U.S. Nuclear Regulatory Commission. November 5, 1987.
  - Introduction R. T. Lancet
  - [Overview](#) P. D. Rutherford
  - [Reliability Assessments](#) P. D. Rutherford
  - PRA Issues C. J. Mueller (ANL)
  - Reduction in Neutronics Uncertainties D. Wade (ANL)
  - [Internal Event Analysis](#) P. D. Rutherford
  - [Seismic Event Analysis](#) P. D. Rutherford
  - [Results and Future Work](#) P. D. Rutherford
  - Preliminary Emergency Planning R. D. Rogers
  - Summary R. T. Lancet
- Phil Rutherford (Rockwell) and Terry Means (Combustion Engineering), “Sodium Advanced Fast Reactor (SAFR) Seismic Probabilistic Risk Assessment (PRA) and SAFR-Specific Fragilities”, Presentation to the SAFR Management Team, June 11, 1987.



**1986**

- “Special Review of SAFR Plant Control and Protection Systems and their Impact on Licensability”, July 9-10, 1986.
  - Agenda
  - Introduction R. Oldenkamp
  - Overview R. T. Lancet
  - Caucus J. C. Mills
  - PPS Reactor Shutdown System B. Bollerjack
  - PPS Reactor Shutdown System Reliability P. D. Rutherford
  - PPS Containment Isolation System R. DeRusseau
  - Post-Accident Monitoring System G. Zagurski
  - Remote Shutdown Facility G. Zagurski
  - Plant Control System G. Zagurski, T. Starr, E. Larson
  - Plant Control System Reliability P. D. Rutherford
  - Data Processing & Information Systems G. Zagurski
  - Licensing Issues D. Rogers, E. Matlin, P. D. Rutherford, E. Larson
  - Summary R. Oldenkamp
  
- “Sodium Advanced Fast Reactor (SAFR) Presentation to NRC - Probabilistic Risk Assessment”, Presentation to U.S. Nuclear Regulatory Commission, January 21, 1986.
  - [Agenda](#)
  - Introduction R. T. Lancet
  - Overall Plant Description R. T. Lancet
  - [Overview of PRA](#) P. D. Rutherford
  - [Review of Reliability Analyses](#) P. D. Rutherford
  - [PRA - Internal Events](#) P. D. Rutherford
  - [PRA - Seismic Events](#) P. D. Rutherford
  - Summary R. T. Lancet

**1985**

- “[Sodium Advanced Fast Reactor \(SAFR\) Presentation to NRC - Proposed Tornado Design Basis](#)”, Presentation to the U.S. Nuclear Regulatory Commission, August 29, 1985.
  - Introduction R. T. Lancet
  - Overall Plant Description R. T. Lancet
  - Design of Some Tornado Impacted Structures A. R. Bailey
  - [Rationale for Reduced Tornado Design Bases](#) P. D. Rutherford
  - [Summary](#) P. D. Rutherford



## REPORTS & WORK PRODUCT

The following is a chronological selection of reports, correspondence, communications, work product and documents authored, co-authored, or edited.

When documents are available on publicly accessible web sites including [The Boeing Company \(Boeing\)](#), the [Department of Energy \(DOE\)](#) and the [California Department of Toxic Substances Control \(DTSC\)](#), hyperlinks to that public source are provided.

### 2020

- Phil Rutherford *Consulting*, “Written communication with a member of the public regarding status of SSFL remediation”, January 18, 2020

### 2019

- Phil Rutherford *Consulting*, “Review and Comment on Y2Q2 Quarterly Air Monitoring Report”, December 28, 2019
- Phil Rutherford *Consulting*, “Review and Comment on Y2Q1 Quarterly Air Monitoring Report”, October 20, 2019
- Phil Rutherford *Consulting*, “Review and Comment on First Annual Air Monitoring Report”, October 20, 2019
- Phil Rutherford *Consulting*, “Communication with member of public regarding EMF testing of underground transformer on property”, August 9, 2019
- Phil Rutherford *Consulting*, “Communication with Amazon regarding plot of Tom Clancy’s Jack Ryan, Season 1”, [Jack Ryan Cesium-137](#), June 16, 2019
- Phil Rutherford *Consulting*, “Communication regarding the Sodium Reactor Experiment Accident”, June 5, 2019
- Phil Rutherford *Consulting*, “Communication with Biolaurus Inc. Regarding Application for a Radioactive Materials License with the California Department of Public Health Radiologic Health Branch (DPH/RHB)”, May-June 2019
- Phil Rutherford *Consulting*, “Support to DOE Records Request”, April-June 2019
- Phil Rutherford *Consulting*, “Communication with Sage Veterinary Centers Regarding Application for a Radioactive Materials License with the California Department of Public Health Radiologic Health Branch (DPH/RHB)”, March 25, 2019
- Phil Rutherford *Consulting*, “[Guidance for Application for a Radioactive Material License](#)”, March 23, 2019
- Phil Rutherford *Consulting*, “Communication regarding Safecast”, March 2019
- Phil Rutherford *Consulting*. Editor and Contributor to “Revised Technical Memorandum - The Boeing Company’s Radiological Air Monitoring Data Associated with the Woolsey Fire”, February 8, 2019. [Boeing Source](#).



- Phil Rutherford *Consulting*, “Compilation of Historical Radiological Remediation Operations”, February-May 2011
- Phil Rutherford *Consulting*, “Review and Commentary on DOE’s Air Monitoring Data on the Woolsey Fire”, February 2019
- Phil Rutherford *Consulting*, “Interpretation of Surface Water Data”, January-July 2019
- Phil Rutherford *Consulting*, “Support to Air Monitoring Program”, January-December 2019
- Phil Rutherford *Consulting*, “Interpretation of Non-censored Non-detect Data”, January 2019
- Phil Rutherford Consulting, “[Censoring Data - An Example](#)”, January 18, 2019
- Phil Rutherford Consulting, “Commentary on DTSC Interim Report on Woolsey Fire”, January 2019
- Phil Rutherford *Consulting*. Editor and Contributor to “Technical Memorandum - The Boeing Company’s Radiological Air Monitoring Data Associated with the Woolsey Fire”, January 4, 2019.
- Phil Rutherford *Consulting*, “Support to the DOE EEOICPA Program”, January-March 2019
- Phil Rutherford *Consulting*, “Support to Woolsey Fire Air Monitoring”, January-March 2019
- Phil Rutherford *Consulting*, “Review and Comment on Y1Q1 Quarterly Air Monitoring Report”, January 10, 2019

#### 2018

- Phil Rutherford *Consulting*, “Support to the DOE EEOICPA Program”, December 2018
- Phil Rutherford *Consulting*, “Support to Woolsey Fire Air Monitoring”, November-December 2018
- Phil Rutherford *Consulting*, “Responses to Undark Journalist Questions”, November 18, 2018
- Phil Rutherford *Consulting*, “Interview with CDC-NIOSH Regarding SEC 235”, November 9, 2018
- Phil Rutherford *Consulting*, “Communication with Biolaurus Inc. Regarding Application for a Radioactive Materials License with the California Department of Public Health Radiologic Health Branch (DPH/RHB)”, November 5, 2018
- Phil Rutherford *Consulting*, “[Non-Ionizing Radiofrequency \(RF\) Electromagnetic Fields \(EMF\)](#)”, October 26, 2018
- Phil Rutherford *Consulting*, “Review and Fact-Check 2018-10-02 Ventura County Reporter Article”, October 2, 2018
- Phil Rutherford *Consulting*, Review & Comment on Correlation Plotting Conventions for Abandoned Uranium Mine Data”, September 27, 2018
- Phil Rutherford *Consulting*, “Review/comment on Historical Remediation Summary”, September-October 2018
- Phil Rutherford *Consulting*, “Response to RTQs on Abandoned Uranium Mine Technical Peer Review”, August 24, 2018



- Phil Rutherford *Consulting*, “Review of Methods of Assessing Ra-226 Risk in Soil”, July 31, 2018
- Phil Rutherford *Consulting*, “Review & Comment on Multi-variate Regression of Data from Abandoned Uranium Mines”, July 29, 2018
- Phil Rutherford *Consulting*, “Communication regarding air monitoring data”, July 13, 2018
- Phil Rutherford *Consulting*, “Review of a Background Study”, June 21, 2018
- Phil Rutherford *Consulting*, “Review of a Building Final Status Survey Report”, June 21, 2018
- Phil Rutherford *Consulting*, “Technical Peer Review of a Radiological Characterization Report of an Abandoned Uranium Mine”, Revision 1, June 1, 2018
- Phil Rutherford *Consulting*, “Communication with Reade Levinson (Reuters) Regarding Cleanup Standards in Use at Hunters Point Naval Shipyard”, May 18, 2018
- Phil Rutherford *Consulting*, “Review of Draft Radiological Characterization Survey Reports”, May 14-15, 2018
- Phil Rutherford *Consulting*, “Interview with CDC-NIOSH and ORAU Regarding SEC 246”, May 1, 2018
- Phil Rutherford *Consulting*, “Communication with Sensor Kinesis Corporation Regarding License Application Requirements with the California Radiologic Health Branch”, April 18, 2018
- Phil Rutherford *Consulting*, “Communication with Property Owner Regarding Cleanup Requirements for Buildings Potentially Contaminated with Thorium Weld Rod Residue”, April 17, 2018
- Phil Rutherford *Consulting*, “Technical Peer Review of a Radiological Characterization Report of an Abandoned Uranium Mine”, April 8, 2018
- Phil Rutherford *Consulting*, “Technical Memorandum on a Decommissioning Funding Plan”, March 5, 2018
- Phil Rutherford *Consulting*, “[Radioactive Decay and Ingrowth](#) – Spreadsheet Solution of the Two-Nuclide Decay/Ingrowth Equations”, February 8, 2018
- Phil Rutherford *Consulting*, “Communication with a member of the public regarding radiation/radioactivity measurements of mineral/jewelry items”, February 6, 2018
- Phil Rutherford *Consulting*, “Communication Regarding Radionuclide Risk Assessment and the Use of the Revised USEPA Radionuclide PRGs”, January - February 2018
- Phil Rutherford *Consulting*, “Communication Regarding Records Requests”, January 2018
- Phil Rutherford *Consulting*, “Review of Work Plans for a Radiological Characterization Survey”, January, 2018
- Phil Rutherford *Consulting*, “Communication with a member of the public with concerns about the SRE Accident and reports of elevated cancer rates”, January 8, 2018

**2017**

- Phil Rutherford *Consulting*, “Comments on the DTSC Draft Environmental Impact Report”, September -December 2017
- Phil Rutherford *Consulting*, “Review of Work Plans for a Radiological Characterization Survey”, August - November, 2017
- Phil Rutherford *Consulting*, “Audit of Radiation Safety Committee Conduct of Operations”, June 2017
- Phil Rutherford *Consulting*, “Audit of Physical Protection of Radioactive Materials”, June 2017
- Phil Rutherford *Consulting*, “Interview with CDC-NIOSH and ORAU Regarding SEC 235”, April 18, 2017
- Phil Rutherford *Consulting*, “Comments on the DOE Draft Environmental Impact Statement”, January - March 2017
- Phil Rutherford *Consulting*, “Communication with USEPA Regarding Ra-226 and Progeny PRGs”, January – February 2017

**2016**

- Phil Rutherford *Consulting*, “Communication with USEPA Regarding Ra-226 and Progeny PRGs”, August - December 2016
- Phil Rutherford *Consulting*, “[Effect of Using True Variability for Baseline Cancer Rates.](#)” November 21, 2016.
- Phil Rutherford *Consulting*, “Commentary on the Use of Mass Loading and Rain Splash in RESRAD and the EPA PRG Calculator”, November 15, 2016
- Phil Rutherford *Consulting*, “Review of Shooting Range Investigation Workplan”, September 11, 2016
- Phil Rutherford *Consulting*, “Recommendations for Response to Decommissioning Funding Plan Request”, September 8, 2016
- Phil Rutherford *Consulting*, “Revision of Surface Activity Limits Table Reflecting Withdrawal of Regulatory Guide 1.86”, August 27, 2016
- Phil Rutherford *Consulting*, “Commentary on the Impact of NRC’s Withdrawal of Regulatory Guide 1.86”, August 27, 2016
- Phil Rutherford *Consulting*, “Radionuclides to be Included in Vadose Zone to Groundwater Transport Modeling”, August 22, 2016
- Phil Rutherford *Consulting*, “MS Excel Spreadsheet Template for Th-230 Decay and Ra-226 Ingrowth”, Prepared for ToxStrategies, July 20, 2016
- Phil Rutherford *Consulting*, “ATSDR Sponsored Community Health Studies for the Santa Susana Field Laboratory”, PowerPoint Presentation, July 20, 2016
- Phil Rutherford *Consulting*, “Commentary on Proposed Sampling along Black Canyon Road”, July 4, 2016



- Phil Rutherford *Consulting*, “Radiological Review - Groundwater Well Drilling, Revision 1, May 26, 2016
- Phil Rutherford *Consulting*, “Commentary on EPA’s Decision to Reduce the “Presumptively Safe” Dose from 15 mrem/y to 12 mrem/y”, May 5, 2016
- Phil Rutherford *Consulting*, “Communication with a member of the public with concerns about the SRE Accident and reports of elevated cancer rates”, April 3, 2016
- Phil Rutherford *Consulting*, “Radiological Review - Groundwater Well Drilling, April 1, 2016
- Phil Rutherford *Consulting*, “Communications Regarding Records Request”, March - April, 2016
- Phil Rutherford *Consulting*, “Response to Media Inquiry”, March 12, 2016

### 2015

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