

James T. (Tom) Voss, NRRPT, CHP  
Fellow of the Health Physics Society  
President of the Power Reactor Section of the HPS  
Member of the American Nuclear Society  
Current DOE "Q" Clearance  
Previous "Top Secret" DOD Clearance  
Previous AEC and NRC Security Clearances

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Education:

Fresno College, Fresno, California - 1963 – 1965  
Brigham Young University - 1965 – 1967  
University of Utah - 1965 – 1967  
Chemical Engineering studies

Certifications and Licenses:

New Mexico "Qualified Expert in Health Physics - Calibration and Training" 2017  
Certified Health Physicist (ABHP in 1998)  
Registered Radiation Protection Technologist – NRRPT 1992  
Radiation Control Technician - ANSI/ANS-3.1 1976, ANSI/ASME NQA-1 1983  
Private Pilot – FAA 1969  
Chemical Engineer 01G20 - US Army 1965

Career Experience:

California State Highways Department – Survey Technician, Soils Lab Technician,  
Weighmaster – 1963 - 1965

US Army Chemical Corps (CBR – Chemical, Biological, Radiological Division) – Chemical  
Engineer, MOS 01G20 - 1965 – 1967

Southern California Edison Company – Chemistry and Radiation Protection Specialist –  
1967 – 1982

Consultant to commercial nuclear power plants – Chemistry and Environmental Specialist,  
Technical Procedure Writer, Lead Startup Engineer - 1982 – 1989  
Initial Startup of Diablo Canyon Nuclear Generating Station (PWR) 1982 -1985  
Initial Startup of Clinton Power Station (BWR) 1985 – 1986  
Reactor Refueling of Farley Nuclear Plant (PWR) 1986 – 1987  
Pre-Startup of Seabrook Station (PWR) 1987 – 1988  
Operations at Rancho Seco Nuclear Generating Plant (PWR) 1988 - 1989

Westinghouse Corporation at Waste Isolation Pilot Project – Senior Health Physics  
Specialist - 1989 – 1993

Los Alamos National Laboratory – Radiation Protection Specialist – 1993 – 1998

Los Alamos National Laboratory – Certified Health Physicist – 1998 to present

Consultant to Radiological Services Providers 2006 to present

Radiation Safety Training Coordinator for US Nuclear Corp, Technical Associates, and  
Overhoff Technology 2006 to present

Guest Lecturer at:

Stanford Linear Accelerator,  
Sandia National Laboratory,  
Canadian Nuclear Laboratories (CNL formerly AECL),  
Ohio State University,  
Cincinnati State University,  
University of New Mexico,  
Colorado State University

Career Achievements:

Named a "Fellow" of the Health Physics Society in 2006  
Certified as a Health Physicist by the ABHP in 1998  
Author of "Los Alamos Radiation Monitoring Notebook," LA-UR-00-2584  
Participated in the training of several hundreds of people in all aspects of radiation protection and measurement  
Author of a few hundred technical reports and procedures  
Registered as a Radiation Protection Technologist by the NRRPT in 1992

Technical Abilities:

Radiological Assessment Procedure and Training Developer  
Radiation Instrumentation Developer/Evaluator Startup Engineer  
Technical Trainer  
Technical Writer

Professional Activities:

Member of HPS, ANS, and NRRPT (Health Physics Society, American Nuclear Society, National Registry of Radiation Protection Technologists)  
Member of writing committees for ANSI, Department of Homeland Security, and IEC  
Chair of the Health Physics Society Laboratory Accreditation Assessment Committee  
Member of Health Physics Society Instrumentation Section  
President of the Power Reactor Section of the Health Physics Society  
Technical Reviewer for Radiation Protection Dosimetry  
Technical Reviewer for the Journal of the Health Physics Society

Publications:

Hazardous Materials Classification and Handling Handbook 2015  
Medical Physics Handbook 2014  
Air Monitoring Handbook 2012  
Radiation Safety Handbook 2011  
Environmental Monitoring Handbook 2005  
Radiation Data Handbook 1994

Contributor to "Radioactive Air Sampling Methods" 2010 CRC Press Maiello and Hoover

Los Alamos Publications

LA-UR-18-21789 "Neutron Radiation Measurement Techniques"  
LA-UR-18-20696 "Evaluation of Current Air Sample Filter Media in use by Radiation Protection Division"  
LA-UR-16-22446 "LANL Evaluation of the Fuji NSN3 Neutron Rem Mmeter"  
LA-UR-16-24956 "Feasibility of Using a Plastic Scintillator Design for a Light-weight Neutron Rem Meter"  
LA-UR-16-25704 "Development of a Contamination Survey Training Simulator"  
LA-UR-15-25676 "Canberra ASM1000/AS1700 Alpha CAM Continuous Air Monitor Operating Characteristics"  
LA-UR-15-28465 "Methods to Improve the Lower Limit of Detection for Tritium in the Air and on Surfaces"  
LA-UR-14-21438 "Calibration of Alpha and Beta Surface Contamination Monitors"  
LA-UR-14-21439 "Calibration Techniques for Gamma Survey Instruments"

LA-UR-14-21440 "Mitigating the Effects of Radon and Thoron and Their Progeny in a Radiation Instrument Calibration Facility"  
 LA-UR-14-21443 "Patient, Family, Hospital Staff, and RSO Doses Associated with the Tc-99m Procedure"  
 LA-UR-14-21444 "Small Modular Reactors"  
 LA-UR-14-21445 "India's Thorium Reactor Progress"  
 LA-UR-13-27757 "Calibration of the Thermo RadEye GX, SX, and PX with Various Detectors"  
 LA-UR-13-27515 "Designing the LANL "Nkosoc" Alpha and Beta Sandwich Detector"  
 LA-UR-13-27718 "Canberra Alpha Sentry CAM Acute Alarm"  
 LA-UR-12-24629 "Stationary Contamination Monitor Comparison"  
 LA-UR-12-24875 "Canberra NetCAM, Dynamic Radiation Source and CAM Alarm Modeling"  
 LA-UR-10-02842 "LANL experience with the Canberra NetCAM"  
 LA-UR-09-0908 "New Algorithms for the Eberline Alpha-6 CAMS"  
 LA-UR-08-0394 "Hand and Foot Monitor Requirements for FY09 Procurement"  
 LA-UR-06-4463 "Status of Current Air Monitoring Evaluations Using Multi-Point Radioactive Aerosol Sampling"  
 LA-UR-05-5020 "A Discussion of Air Monitoring Strategies"  
 LA-UR-05-1561 "How Can Integrated Safety Management (ISM) Principles Improve the Safety Environment in Your Lab?"  
 LA-UR-05-5019 "Operational Experience with the Eberline Alpha7 CAM at L LANL"  
 LA-UR-02-1670 "Future Directions in Air Monitoring at Los Alamos National Laboratory"  
 LA-UR-02-7145 "A New Design for Portable Radiation Survey Instrumentation"  
 LA-UR-01-1001 "Automated Survey Method for Upstream Segregation of Transuranic Waste"  
 LA-UR-01-1511 "A Novel Design for a Portable Continuous Air Monitor"  
 LA-UR-00-2311 "Placement of Continuous Air Monitors in PF-4 Plutonium Laboratories: Consensus Findings and Recommendations"  
 LA-UR-00-2584 "Los Alamos Radiation Monitoring Notebook" updated February 2001  
 LA-UR-00-4236 "A Method for Radon and Thoron Discrimination"  
 LA-UR-99-6750 "Los Alamos Radiation Monitoring Notebook"  
 LA-UR-97-1345 "Comparison of Continuous Air Monitor Utilization: A Case Study"  
 LA-UR-96-4805 "Performance Evaluation of an Irregular Surfaces and Internal Surfaces Radioactive Contamination Monitor"  
 LA-UR-96-4806 "Alpha Continuous Air Monitor Algorithms and Instruments"

#### Participation on ANSI and IEC Standards Writing Committees

##### ANSI

ANSI N13.56, "Sampling and Monitoring Releases of Airborne Radioactivity in the Workplace of Nuclear Facilities," Chairperson J. J. Whicker  
 ANSI N323C, "Radiation Protection Instrumentation Test and Calibration – Air Monitoring Instruments," Co-chairs M. Hoover and M. Johnson  
 ANSI N317 (revision), "Performance Criteria for Instrumentation Used for In-Plant Plutonium Monitoring," Chairperson C. Olson  
 ANSI N42.33, "Portable Radiation Detection Instrumentation for Homeland Security," Chairperson M. Cox  
 ANSI N13.38, "Selection and Use of Portable Neutron Radiation Protection Instrumentation for Dose Equivalent Determination," Chairperson T. Johnston

##### IEC Technical Committee No. 45: Nuclear Instrumentation

Sub-Committee 45A: Environmental Radiation Protection Instrumentation Sub-

Committee 45B: Radiation Protection Instrumentation

"Installed Radiation Monitors for the Detection of Radioactive and Special Nuclear Materials at National Borders"

"Dose Rate Measurement Devices"

"Radiation Protection Instrumentation – Portable Photon Contamination Meters and Monitors"

Revision of "Equipment for Monitoring of Alpha, Beta or Gamma-Emitting Radionuclides in Liquid Effluents and Surface Water"  
"Airborne Instrumentation for Measurement of Terrestrial Gamma Radiation"  
"Radon and Radon Decay Product Measuring Instruments"  
"Instrument and Control System (I&C) of Interim Storage and Final Repository of Nuclear Fuel and Waste"

Personal life:

Married to Sandra Loa Hays since December 5, 1975

We have 2 daughters, Susan Jennifer and Sarah Anne, both now married.