

Lawrence R. Jacobi, Jr., P.E., J.D.

Professional Qualifications

I am an experienced nuclear industry executive with more than 40 years of front-line experience in engineering, project management and design, environmental sciences, law and governmental and media affairs. I am a Registered Professional Engineer and member of the State Bar of Texas. As a licensed nuclear engineer in Texas, Health Physicist and licensed attorney, I provide hands-on technical and regulatory assistance in the licensing, construction, operation and decommissioning of nuclear and radiological facilities, including expert guidance on radiation risk assessment, licensing and permitting of nuclear facilities, environmental assessments, nuclear facility closure and decommissioning plans, radiological and non-radiological environmental monitoring programs, and nuclear facility operating procedures. I provide field surveys, including final status surveys, contamination control and Health Physics technical support for facility operation, closure and decommissioning. I provide expert assistance on the management of radioactive waste storage, processing and disposal facilities.

Education

Doctor of Jurisprudence, South Texas College of Law, 1981

Master of Engineering, Nuclear Engineering, Texas A&M University, 1975

Bachelor of Science, Nuclear Engineering, Texas A&M University, 1973

Licenses and Registrations

Member, State Bar of Texas, No. 10515600, 1981 to present

Registered Professional Engineer, Texas, No. 43535, 1978 to present

Registered Lobbyist, State of Texas, No. 00022824, 1999 to 2013

Experience and Background

2001 to Present – Principal Consultant, Jacobi Consulting

As a licensed nuclear engineer in Texas and Health Physicist, I provide hands-on technical assistance in the licensing, construction, operation and decommissioning of nuclear and radiological facilities. I provide expert guidance on radiation risk assessment including pathway analysis, licensing and permitting of nuclear facilities, environmental assessments and radioactive material uses. I develop nuclear facility closure and decommissioning plans, radiological and non-radiological environmental monitoring programs, and nuclear facility operating procedures. I provide field surveys, including final status surveys, contamination control and Health Physics technical support for facility operation, closure and decommissioning. I provide expert assistance on the management of radioactive waste storage, processing and disposal. I can assist companies in navigating the

Byzantine federal and state regulatory process for licensing nuclear facilities and radioactive material. I have been retained as a consulting and testifying expert in administrative proceedings and in civil cases in both state and federal courts.

1999 to 2001 - Vice President of Operations and General Counsel, Envirocare of Texas, Inc.

I was the Chief Operating Officer and General Counsel for the Texas subsidiary of the Utah parent company reporting directly to the Owner of the company with top-level responsibility for developing and licensing radioactive waste treatment, storage and disposal facilities in Texas. My responsibilities included overall management of the governmental, legal, media and engineering duties in Texas.

1982 – 1999 - General Manager, Texas Low-Level Radioactive Waste Disposal Authority

I was the Chief Operating Officer of the agency responsible for all operations of the Authority subject only to the orders of the Board of Directors. As the chief operating officer of the agency, I had overall responsibility for the development, licensing, construction and financing of a low-level radioactive waste disposal facility in Texas. I gained extensive experience dealing with controversial issues, media and governmental relations, strategic planning and policy development, legal and administrative proceedings, engineering project management, financing and budgeting for large projects, and human resource issues.

1977 to 1982 - Supervising Engineer; Nuclear Safety and Licensing Division, Houston Lighting and Power Company

In this capacity, I had overall responsibility for the preparation and maintenance of the final safety analysis and environmental reports on the South Texas Project Nuclear Generating Station, and communication with the Nuclear Regulatory Commission and other state and federal agencies. I coordinated the work of 5 attorneys in the conduct of administrative hearings on the construction of the South Texas Project. I also supervised the maintenance of the preliminary safety analysis report and environmental report on the Allen's Creek Project. Additional responsibility included generic licensing issues and development of the nuclear safety analysis division of the Company. I directly supervised 11 engineers and technicians, and 7 clerical staff.

1975-1977 - Health Physicist, Houston Lighting and Power Company

I was responsible for the design of plant radiological control systems including the radiation monitoring system, layout of the plant radiochemical laboratory, and the plant decontamination system on the South Texas Project. I assisted in the development of the ALARA design review program and development of the Health Physics operating procedures for the plant.

1973-1975 – Associate Health Physicist, Texas A&M University

I was responsible for the radiological safety program at an 88" cyclotron. Specific duties included personnel dosimetry using LiF and CaF₂ TLDs for

beta/gamma measurements and traditional film badges for neutron measurements; Running laboratory samples and evaluating personnel bioassays for tritium uptake; Coordinating the radiation protection training course with the facility safety training program; Radiological environmental monitoring, including soil, air, surface water and groundwater, facility effluent, and vegetation; Facility radiation surveys and contamination control; Maintenance and calibration of survey instruments and the facility radiation monitoring system; Radioactive waste management; and, shielding design for high-energy neutrons. Health physics issues at the facility included sealed and unsealed sources of radioactivity, including Transuranics; industrial x-ray machines and high-energy accelerators; and non-ionizing radiation sources, including lasers and microwave devices.

Professional Affiliations

- Health Physics Society, 1972 to present
 - Chairman of the State and Federal Legislation Committee, 1978-81
- Health Physics Society, South Texas Chapter, 1972 to present
 - Treasurer, 1976-79
 - President-elect, 1979-80
 - President, 1980-81
 - Chairman, Public Relations Committee, 2002-03
- Health Physics Society, West Texas Chapter, 2010 to present
 - Affiliate Member, 2010 to present
- Texas Mining and Reclamation Association, 2006 to present
 - Member of the Uranium Committee, 2006 to present; Committee Secretary, 2012 to 2014
- Consultant to the Committee on Radiation Policy, Texas Medical Association, 1984 to 1993
- Chair, Senior Management Advisory Board, U.S. DOE Carlsbad Field Office, 2001 - 2002
- Member, Texas Radiation Advisory Board, appointed by Governor Perry, 2004, re-appointed 2009; elected Vice-Chair of the Board, 2009; elected Chair, 2009-2011
- Advisor, Conference of Radiation Control Program Directors, Working Group on Suggested State Regulations – Part U, “Licensing Requirements for Uranium and Thorium Processing and Related Radioactive Material,” 2007 to present

- Advisor, Conference of Radiation Control Program Directors, Working Group on Suggested State Regulations – Part M, “Licensing Requirements for Land Disposal of Radioactive Waste, 2013 to present
- Member, Health Physics Society Working Group on Low-Level Radioactive Waste Disposal Policy, 2007
- Member, University of Texas Reactor Oversight Committee, 2009 to present
- Member, Texas Nuclear Sector Working Group, 2015 to present; Member, Legal Committee, 2015 to present
- Co-author, Border Issues, Vol. 46 Texas Practice Series, Environmental Law, Chapter 23, (2015 ed.)

Honors and Awards

- Recipient, Richard S. Hodes Honor Lecture Award for innovation in radioactive waste management, 2011
- Chair, NORM and Natural Radiation Management North American Conference, 2013-15