Stephen F. LaVie

Health Physicist
Office of Nuclear Reactor Regulation
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Education

Beaver Valley Power Station Plant Certification Program, 1995-1997
Georgia Institute of Technology Video Based Instruction (audit), 1992-1995
Naval Nuclear Power School, 1970-1971
State College at Fitchburg (MA), 1965-1969

Employment

U.S. Nuclear Regulatory Commission, Health Physicist, 1997-present

Performs evaluations of and judges the acceptability of the radiological consequence aspects of applications for license amendments and other licensing actions to determine conformance with regulations and acceptance criteria. Maintains and creates regulatory guidance on radiological consequence analyses. Developed a regulation and supporting regulatory guidance on the use of alternative source terms at currently licensed power reactors.

Duquesne Light Company, Senior Health Physics Specialist, 1982-1997

Performed radiological engineering activities in support of plant operations and modifications including: re-analysis of UFSAR design basis accidents, such as DBA LOCA, locked rotor accident, fuel handling accident, main steam line break in support of steam generator alternate plugging criteria, small break LOCA with delayed spray actuation; re-analysis of control room post–accident radiological habitability; equipment radiological environmental qualification; and shielding analysis of Emergency Response Facility. Developed or adapted computer codes for radiation transport and point-kernal shielding analyses including adaptation of QAD/CGGP and G3, developed multiple compartment linear transport code with progeny ingrowth for use in offsite and control room calculations, developed two region CNMT transport code. Lead engineer for site Meteorological Measurements Program and the site's emergency response offsite radiological dose assessment capability. Supported the site Emergency Preparedness Program by maintaining and developing dose projection procedures and performing technical analyses in support of these procedures.

NUS Corporation, Health Physicist, 1976-1982

Assignments included: participation in detailed program reviews at six operating nuclear power facilities; procedure development; onsite support at Three Mile Island, and emergency planning support at the Beaver Valley Power Station.

US Navy, 1969-1976

Professional

Electric Power Research Institute (EPRI) member of industry resource group (IRG) on rulemaking for Steam Generator Management Program (1996-1997)

Nuclear Energy Institute Issue Task Force (ITF) on Implementation of New Source Terms at Existing LWRs (1994 -1997), ITF on Steam Generator Performance-Based Rulemaking (1995-1997), Nuclear Management and Resources Council (NUMARC): Ad Hoc Advisory Committee (AHAC) on Shutdown Risk Emergency Action Levels (1992-1997), AHAC on Relicensing Rule Generic Environmental Impact Statement (GEIS) (1991-92), AHAC on the Proposed Changes to the EPA Protective Action Guidelines (1989) and Implementation White Paper (1992-1993), Task Force on Emergency Action Levels (1988–1997).

Member of American Nuclear Standard Working Group 3.8, Emergency Preparedness (1988-1993).Health Physics Society (1978-present)

Publications/Presentations

"Alternative Radiological Source Terms for Evaluating Design Basis Accidents at Nuclear Power Reactors," USNRC Regulatory Guide 1.183, 2000

"Introduction to the MIDAS Computer Code," presentation in Atmospheric Science and Radioactivity Releases Seminars, Harvard School of Public Health, 1995, and 1996

"Reduction of O & M Costs Using "New Source Terms"," co-authored with S. Ferguson, SWEC, at ANS Summer Conference, 1995

"Experience in Implemention of EPA-400," presentation in Advanced Workshop for Nuclear Emergency Planning, Harvard School of Public Health, 1994

"Implementation of EPA-400 Requirements at Existing Facilities," presentation before NUMARC 10 CFR 20 implementation Workshop, Baltimore and Chicago 1993, and at FEMA Region VI REP Conference 1993