

**James D. Noggle**  
**Statement of Professional Qualifications**

**Summary of Qualifications**

Mr. James Noggle is a board certified health physicist with extensive experience in commercial nuclear power plant radiological protection and regulation. He has held various technical positions within the commercial nuclear industry and the U.S. Nuclear Regulatory Commission (USNRC). Mr. Noggle's expertise includes: health physics, radiological engineering, radioactive waste processing and transportation, operational health physics, radiological effluents, radiological environmental monitoring, groundwater monitoring, and groundwater effluent releases. Beginning in 2005 in his role as Senior Health Physicist in the Division of Reactor Safety at Region I of the USNRC, Mr. Noggle has focused on leading groundwater inspection teams at several commercial nuclear power plants. Since July 15, 2012, he has served as Chief of Plant Support Branch 2, in the Division of Reactor Safety, NRC Region I, responsible for reactor health physics and incident response in NRC Region I.

**EDUCATION**

B.S. Health Physics, Virginia Tech, 1975

American Board of Health Physics Certification in comprehensive health physics, 2000

Post-graduate training:

Geohydrology select short courses (by National Ground Water Association (NGWA) and American Geophysical Union (AGU) ); Environmental Regulations, Decommissioning: Multi-Agency Radiation Survey and Site Investigation Manual (MARSSIM), Applying Statistics, Gamma Ray Spectroscopy, Radwaste Management, Internal Dosimetry, Transportation Regulations, Accident Investigation, Pressurized Water Reactors (PWR) & Boiling Water Reactors (BWR) Operational Chemistry, BWR and PWR Systems, Transients, and Control Room Operations; Non-Destructive Examination (NDE) Training: American Society of Mechanical Engineers (ASME) Section XI, Eddy Current Level II, ultrasonic phased array; and completion of NRC supervisor training series,.

**BACKGROUND**

Mr. Noggle has over 36 years work experience comprised of 21 years as a health physicist with the USNRC and 15 years as a health physicist in the commercial nuclear power industry. Mr. Noggle's experience includes work in over fifty different commercial nuclear power plants in three countries including the United States, Taiwan and Japan.

During Mr. Noggle's 21 years with the USNRC, he has provided health physics inspection expertise at commercial nuclear power plants in the areas of: groundwater contamination, environmental monitoring, radioactive effluent releases (including public dose assessment of

effluent releases), radioactive material transportation, occupational health physics, spent fuel transportation, nuclear power plant decommissioning, fuel facility operations and decommissioning, steam generator replacement projects, NDE in-service inspection, maintenance rule and training.

In addition to his inspection responsibilities, Mr. Noggle has been engaged in a number of important assignments during his career with the USNRC. Since July 15, 2012, he has served as Chief of Plant Support Branch 2, in the Division of Reactor Safety, NRC Region I, responsible for reactor health physics and incident response in NRC Region I. Previously, Mr. Noggle was deployed to Japan in July 2011 to support the Fukushima I recovery effort, and dealt with contaminated food issues in support of the U.S. Ambassador to Japan in Tokyo. In 2009, prior to launching the National Source Tracking System on behalf of Homeland Security, Mr. Noggle led a special project team to establish the initial source database and ensure its quality. In 1999, Mr. Noggle wrote the occupational and public radiation safety inspection procedures and helped develop the associated health physics enforcement protocol for the initial Reactor Oversight Process.

Since 2005, Mr. Noggle has been focused on the Agency's handling of contaminated groundwater releases at nuclear power plants. Beginning in 2005, he was assigned as the USNRC lead inspector to investigate groundwater contamination at Indian Point Energy Center and later in 2010, at Vermont Yankee Nuclear Power Station. This effort required Mr. Noggle to develop an inspection approach that included hydrogeology experts from the NRC, the U.S. Geological Survey, and State health physics and hydrogeologists. This three-agency approach provided an objective team of reviewers during the licensee's hydrogeologic investigation work. The inspection team provided approximately quarterly review and cross examination of the licensee's investigation of the groundwater contamination condition at these plants, questioning alternative explanations for the groundwater flow conceptual site model. Mr. Noggle also developed a Region I groundwater split-sample protocol to independently assess the groundwater condition and ensure adequate public protection from the contaminated groundwater releases at these plants.

Mr. Noggle was actively involved in evaluating the groundwater effluent discharge calculation approaches and associated public dose assessments. Based on this experience, Mr. Noggle has made presentations of acceptable groundwater monitoring programs and acceptable groundwater effluent release evaluations at the following industry meetings: Electric Power Research Institute Groundwater Workshop 2009, USNRC Regulatory Information Conference 2011, New England Radiation Health Committee Annual Meeting 2011, and the American Nuclear Society Winter Conference 2011. Currently, Mr. Noggle is working with NRC's Office of Research, to revise Regulatory Guide 1.113 to specify acceptable groundwater flux calculational methods that may be used in annual radioactive effluent release reports.

In addition to his roles as Chief of Plant Support Branch 2, Senior Health Physicist and lead team inspector, in 2009 Mr. Noggle served a four month rotational assignment as a Medical Health Physics Branch Chief in Region I. Since 1999, Mr. Noggle has represented the NRC at

annual Information System on Occupational Exposures ALARA Conferences, providing NRC perspectives on nuclear power plant collective radiation exposures. Since 2009, Mr. Noggle currently is the Radiation Safety Committee Chairman with responsibility for managing the Region I Radiation Safety Program.

Prior to joining the USNRC, Mr. Noggle was employed for nine years as a consulting health physicist for Institute for Resource Management, Combustion Engineering and General Electric Nuclear Energy, and for six years as a health physics manager and radiological engineer for General Electric Nuclear Energy. His commercial industry work included providing radiation shield designs at BWRs, the setup of whole body counting and counting room laboratories, and acting as the health physics manager of numerous reactor modifications projects in Japan, Taiwan and several U.S. commercial nuclear power plants.