

Timothy C. Johnson
Statement of Professional Qualifications

CURRENT POSITION

Senior Project Manager
Uranium Enrichment Branch
Division of Fuel Cycle Safety and Safeguards
Office of Nuclear Material Safety and Safeguards
U.S. Nuclear Regulatory Commission
Washington, DC

EDUCATION

M.S., Nuclear Engineering, Ohio State University
B.S., Mechanical Engineering, Worcester Polytechnic Institute

PROFESSIONAL

American Nuclear Society, Member
American Society of Mechanical Engineers, Member
American Society for Testing and Materials, Member

QUALIFICATIONS

Mr. Johnson is a nuclear engineer with over 37 years of work experience in industry and in the Federal government. He has been working in the areas of radioactive waste processing, low-level radioactive waste management, high-level radioactive waste management, decommissioning, and uranium enrichment facility licensing. He has been with the NRC since 1977. Mr. Johnson received a Bachelor of Science degree in Mechanical Engineering from Worcester Polytechnic Institute in Worcester, Massachusetts, in 1971 and a Master of Science degree in Nuclear Engineering from Ohio State University, in Columbus, Ohio, in 1973. Courses he has taken that are pertinent to his present discipline are in the areas of advanced mathematics, engineering design, mass and heat transport, thermodynamics, reactor theory, nuclear physics, nuclear power plant engineering, and health physics. He was elected to membership in Pi Mu Epsilon, the mathematics honorary society.

Currently (since 1999) Mr. Johnson is a Senior Project Manager and Senior Mechanical Systems Engineer in the Division of Fuel Cycle Safety and Safeguards. He is the Licensing Project Manager for the General Electric-Hitachi Global Laser Enrichment uranium enrichment plant responsible for coordinating the licensing review of the facility. He has acted as deputy project manager for the Mixed Oxide Fuel Fabrication Facility licensing and project manager for the licensing of gas centrifuge uranium enrichment facilities. He also was the Project Manager of the Louisiana Energy Services uranium enrichment plant from the project's inception in 2000, through licensing, and into initial plant construction until 2009. As Project Manager, he coordinated the licensing review of the licensing application. He also provided testimony in contested and mandatory

hearings for this facility in the areas of uranium enrichment facility licensing, the disposition of depleted uranium, and decommissioning financial assurance.

Prior to his current position, Mr. Johnson was Section Chief of Decommissioning Sections in the Division of Waste Management (1992 to 1999), responsible for developing and executing the Site Decommissioning Management Plan (SDMP), an agency effort to ensure that 17 decommissioning policy issues were resolved and over 40 non-routine decommissioning sites would be properly decommissioned. During this time, he acted as Project Manager for the decommissioning of the Chemetron site in Cleveland, Ohio, a controversial contaminated site located in a residential neighborhood. The site was remediated and the license terminated in 1998.

Prior to that assignment, Mr. Johnson was Section Leader of the Special Projects Section in the Division of Waste Management (1987 to 1992). In this capacity, he supervised a section responsible for mixed wastes, decommissioning of materials licensee facilities and power reactors, financial assurance for decommissioning materials licensees and low-level waste disposal facilities, greater than Class C wastes, low-level waste disposal site quality assurance, and the low-level waste data base.

Before that assignment, Mr. Johnson was Section Leader of the Materials Engineering Section in the Division of Waste Management (1984 to 1987). In this capacity, he supervised a section that performed technical and engineering evaluations of low-level and high-level radioactive waste packages. This included planning and executing section programs, providing technical direction and integration of materials concerns into NRC low-level and high-level waste licensing activities, and supervising the management of technical assistance programs.

From September 1977 to April 1984, Mr. Johnson had lead responsibility for the waste form performance aspects of low-level radioactive wastes to include radwaste processing, solidification, high integrity containers, and volume reduction systems. In this capacity, he developed programs for analyzing, evaluating, coordinating, and recommending licensing actions related to the waste form and waste classification areas of 10 CFR Part 61. These responsibilities have specifically included coordinating the development of the waste form and waste classification requirements and preparing the appropriate sections for: (1) the low-level waste management regulation, 10 CFR Part 61; (2) the draft and final environmental impact statements that support 10 CFR Part 61; and (3) the technical positions on waste form and waste classification that provide guidance to waste generators for complying with the 10 CFR Part 61 requirements. He also acted as lead for an intra-agency task group for implementation for the 10 CFR Part 61 requirements at nuclear power plants.

Mr. Johnson also participated on a Task Force responsible for Three Mile Island Unit 2 (TMI-2) waste disposal issue resolution to include the evaluation of EPICOR-II, Submerged Demineralizer System, and decontamination solution wastes. He also prepared and coordinated the waste disposal section for the TMI-2 Programmatic Environmental Impact Statement.

Prior to joining the NRC, Mr. Johnson was employed by Stone & Webster Engineering Corporation in Boston, Massachusetts (1973 to 1977). As the offgas and ventilation filter system specialist, he was responsible for the technical adequacy of offgas and ventilation filter systems for pressurized water reactor, boiling water reactor, high

temperature gas cooled reactor, and liquid metal fast breeder reactor projects. His responsibilities included ensuring that equipment met both applicable regulatory and equipment code requirements. He prepared master specifications for offgas and ventilation filter systems for use by project staff. He reviewed project specifications and performed technical reviews of vendor proposals. He also reviewed vendor procedures for qualification and testing of offgas and ventilation system components.

Mr. Johnson has prepared over 25 presentations and papers given at conferences and has been an instructor at American Society of Mechanical Engineering, Harvard School of Public Health, and NRC training courses in the areas of low-level waste management, decommissioning, and uranium enrichment facility licensing.