

# LONGENECKER and ASSOCIATES

## EXPERIENCE SUMMARIES FOR KEY PERSONNEL

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### Phillip J. Levine

#### **EXPERIENCE SUMMARY:**

Mr. Levine has over 40 years experience in a variety of disciplines in the nuclear industry, including Quality Assurance, Integrated Safety Management, self-assessment implementation, independent multi-disciplined program assessment, hazardous waste/mixed waste program management, facilities engineering and production planning and scheduling in support of uranium production operations, technical direction and project management of advanced nuclear fuel and structural materials development studies, and specification and advice on structural materials for designs in commercial atomic power systems. Extensive experience interacting with U.S. Department of Energy (DOE), Defense Nuclear Facilities Safety Board (DNFSB) and Environmental Protection Agency (EPA) in support of various nuclear programs and facilities.

#### **DETAILED EXPERIENCE:**

Prior to retirement from the Westinghouse Savannah River Company, Mr. Levine provided division management for the Savannah River Site's overall quality assurance and lessons learned programs. In this role, Mr. Levine was responsible for the WSRC Level III Quality Inspection and certification of the Level I and II Quality Inspectors, as well as support and assistance for the Site Quality Manager in the leadership of the Quality Managers' Council.

Mr. Levine was responsible for the development and coordination of the WSRC self-assessment process and site-level programmatic self-assessment implementation. He also provided program management leadership for development and implementation of the WSRC Integrated Safety Management System and preparation of the site-level policy to address DNFSB Recommendation 95-2. In this role, he was responsible for the interface with DOE-SR and DOE-HQ in the execution of the Integrated Safety Management System.

Mr. Levine was responsible for the development, establishment and management of a process for conducting multi-disciplined independent program assessments throughout the Savannah River Site, which provided consultation and recommendations for improvements to strengthen the Company's management performance in the areas of effectiveness and efficiency. This process provided independent oversight at the highest reporting level for program issues of significant concern to senior WSRC and DOE management, as well as timely feedback to top management on critical program assessment results.

Mr. Levine was responsible for the overall coordination and program management of the hazardous/mixed waste program at the DOE Feed Materials Production Center (FMPC) through matrix management of engineering, operations and administrative functions to implement hazardous waste storage requirements in compliance with RCRA regulations. This position also included the responsibility to develop an enhanced waste sampling and analysis program, to develop and conduct hazardous waste (RCRA) training for all site employees, to provide interface with DOE, EPA and FMPC senior management, and for programmatic follow of the Underground Storage Tank Program.

Prior to the cessation of uranium production at the FMPC, Mr. Levine had responsibility for directing facilities engineering, production planning and scheduling, and systems development functions within Production Operations. In this capacity, he managed activities to secure new production facilities and to qualify those facilities for operation; to coordinate, prepare and control the multi-million dollar operating budget for the site; to prepare, distribute and maintain

operating procedures and specifications; and to plan and initiate overall safety, quality and productivity improvements for operations.

As Plant Quality Engineering Manager at the FMPC, Mr. Levine provided for the maintenance of a surveillance program over uranium production and waste handling operations, site maintenance work, environmental and safety monitoring, analytical efforts, and procurement and product certification activities. This position also was responsible for quality-related interfaces with DOE and FMPC suppliers, for certification to customer requirements for all FMPC-produced products, and for engineering improvements and developments in inspection techniques and capabilities.

As part of the advanced commercial atomic power development program in the U.S., Mr. Levine had responsibility for the technical direction and project management of nuclear irradiation experiments on advanced nuclear fuels and high-temperature structural materials for sodium-cooled fast breeder reactor concepts. This task involved the coordination and implementation of design, analysis, fabrication, quality assurance, examination and documentation of complex experiments conducted in several different privately- and DOE-owned nuclear test reactors (GETR, TREAT, EBR-II, and FFTF). In addition, as part of the U.S. NERVA Program, he had responsibility for the study of radiation effects on structural materials at cryogenic and elevated temperatures to develop materials for use in nuclear rocket vehicle applications and for high-temperature thermometry systems.

Mr. Levine developed and implemented facilities requirements for the nuclear fuel development laboratory associated with the construction of the BAWTR, and conducted applied development tests on zirconium alloy hydriding effects in support of early commercial nuclear reactor designs.

**EDUCATION:**

Carnegie Institute of Technology (now Carnegie-Mellon University) – BS Degree in Metallurgical Engineering.

University of Virginia, Virginia Polytechnic Institute (now Virginia Tech), and University of Pittsburgh – Graduate courses in Nuclear Engineering and Metallurgy