

## **ROY J. SCHEPENS**

### **EXPERIENCE SUMMARY**

Roy Schepens is a results-oriented executive manager with over 30 years commercial nuclear, Nuclear Regulatory Commission (NRC), and Department of Energy (DOE) experience providing innovative technical, regulatory, and fiscal management solutions to federal agencies and private industry. Throughout his career Mr. Schepens has been a leader that initiated and led change, identifying and implementing better ways to achieve major results with greater workplace safety and assurance of success with greater cost-effectiveness. Mr. Schepens currently manages the Hanford River Protection Project (RPP), the largest environmental cleanup project in the world. His innovative approaches have led to substantial life cycle savings and innovative ways of enhancing worker and public safety through better cleanup and operational approaches. Mr. Schepens routinely works with members of Congress, senior DOE officials, and senior State officials on key elements of the RPP, seeking innovative ways to accelerate the project and other DOE initiatives with a broad base of support. Mr. Schepens also played a key role is assisting DOE gain support for key legislation required to move forward with defense waste cleanup across the complex. Prior accomplishments include the startup of the Defense Waste Processing Facility (DWPF) and the development and implementation of innovative approaches in areas such as plutonium storage, workplace safety, personnel qualifications, and training have been successfully used as models throughout the DOE complex. National security experience is primarily related to plutonium manufacture and storage, highly enriched uranium (HEU), and other special nuclear materials (SNM). Mr. Schepens was directly involved with the SRS K Reactor re-start; he managed F and H Canyon facilities plutonium and HEU production, SRS SNM storage facilities, and the DWPF which treats canyon waste. Mr. Schepens participated in evaluations of excess Pu disposition alternatives and had significant interactions with Safeguards and Security (S&S), including Material Control and Accountability, personnel. He managed facilities under the strictest requirements for safeguarding Category 1 quantities of SNM, classified information, and other assets. S&S requirements included physical, information and personnel security; classification and declassification; computer security; technical security (TSCM/TEMPEST); foreign travel; protective force; and materials control and accountability. His SRS experience brought Mr. Schepens into contact with many other related sites and programs including Hanford, Idaho, Pantex and Oak Ridge/Y-12.

### **PROFESSIONAL EXPERIENCE**

**Nuclear Projects Senior Engineering and Operations Consultant – Longenecker & Associates**

October 2015-Present

**Vice President, Executive Technical Director for the Salt Waste Processing Facility Project – Parsons Infrastructure and Technology**

April 2007-October 2015

Mr. Schepens provides technical advice to the Project Manager in the following program areas: Project Management, Project Baseline Development and Implementation, Safety Review Board, Change Control Board, Integrated Safety Management System, Integration of Safety into Design Process, Conduct of Operations and Human Performance Improvement.

**U.S. Department of Energy**

November 1988-February 2007

Manager, Office of River Protection (Hanford)

June 2002-February 2007

Mr. Schepens manages the largest single environmental cleanup project in the world, the Hanford tank farm cleanup project. This project includes the retrieval and treatment of over 50 million gallons of radioactive mixed waste from defense spent nuclear fuel reprocessing and related operations that is stored in over 200 underground tanks (some of which are over 60 years old); the design and construction of the largest radiochemical waste treatment facility in the world; and the development and testing of highly innovative supplemental waste treatment techniques and systems required to meet regulatory milestones. Mr. Schepens manages a direct federal staff of over 100 personnel, several thousand contractor staff, and an annual budget of over one billion dollars. His innovations and technical and management approaches have put the project on a well-planned and more cost-effective pathway to completion. Mr. Schepens has responsibility for all management, regulatory, and stakeholder aspects of this project including routine interactions with Congressional members and staff and senior DOE officials.

Assistant Manager, Nuclear Materials Facilities and Stabilization (Savannah River Site)

July 2000-July 2002

Mr. Schepens' responsibilities included day-to-day operations for F Canyon (plutonium stabilization and packaging), H Canyon (HEU down-blending for commercial fuel use), and foreign spent nuclear fuel consolidation activities. Mr. Schepens managed a staff of ~60 professionals and an annual budget of \$600 million. Mr. Schepens converted the K-reactor building into a large containment storage facility for the storage of plutonium from within the DOE Weapons Complex. He emptied the first spent fuel basin to be emptied at SRS and initiated decommissioning of the Recycle Basin for Off-Site Fuel. He led the development of the project plans and put into place the project structures to repackage plutonium and deactivate F-Canyon. Mr. Schepens initiated the project to down-blend high enriched uranium for productive use in TVA plants. He also achieved significant savings (~\$200 million) by identifying and using existing tank farm infrastructure components to disposition Americium-Curium materials.

Deputy Assistant Manager for High Level Waste (Savannah River Site)

May 1995-July 2000

Mr. Schepens' responsibilities included day-to-day HLW operations for construction, startup testing, nuclear waste processing, nuclear safety, scheduling, budget management, and interfacing with the Defense Nuclear Facilities Safety Board and the NRC. Mr. Schepens managed ~60 professional staff; an annual budget of \$400 million; and construction and startup budgets up to \$2 billion for projects including the Defense Waste Processing Facility, Consolidated Incineration Facility, Replacement High-Level Waste Evaporator, and K-Reactor. Mr. Schepens' innovative management led to a 2-year \$145 million cost reduction in HLW operations, the successful startup of the \$2 billion DWPF, the production of the first ~500 HLW canisters, and the closure of the only two HLW tanks ever to be closed in a DOE defense waste tank farm.

Director, High Level Waste Operations Division (Savannah River Site)

June 1993-May 1995)

Mr. Schepens' responsibilities included program direction of all management, engineering, operational quality assurance, radiological control, environmental compliance, budget, and scheduling for the startup

and operations of the tank farms, evaporators, High-Level Waste Vitrification Plant, Low-Level Waste Grout Plant, and associated chemical processes. Mr. Schepens implemented a Facility Representative program for HLW operations that the Defense Nuclear Facilities Safety Board recognized as the best in the DOE complex. Mr. Schepens also assisted DOE HQ in the development of policy and procedures for the Environmental Management programs relative to personnel recruitment, training, and qualification).

Director, Reactor Operations Division (Savannah River Site)

November 1990-June 1993

Mr. Schepens' responsibilities included day-to-day operations for reactors and related systems and programs including reactor startup and operations, contract certification programs, review and concurrence on Reactor Test Authorizations, and operating contractor oversight. Mr. Schepens established Facility Representative Programs at all three operating reactor sites; participated in senior DOE investigations of significant events; established Safety Evaluation Report Acceptance Criteria; and initiated line management programs to assure compliance with Technical Specifications, DOE Orders, and environmental regulations.

Director, Safety Oversight Division (Savannah River Site)

May 1990-November 1990

Mr. Schepens' responsibilities were expanded to include independent safety oversight of production reactor restart activities and chairing an inspection team investigating and making recommendations regarding a heavy water spill at K-Reactor. Mr. Schepens was responsible for promoting safety through the line management organization with direct line responsibility for oversight of the operating contractor's quality assurance and health programs.

Senior EH Site Resident Inspector (Savannah River Site)

November 1988-May 1990

Mr. Schepens was responsible for identifying and evaluating safety issues, diagnosing root causes, and recommending solutions for a range of facilities including the H and F Canyons, HB and FB line, H and F tank farms, reactors, heavy water processing, and tritium facilities.

**Senior Resident Inspector – U.S. Nuclear Regulatory Commission**

November 1984-November 1988

Mr. Schepens held several positions with increasing levels of responsibility during his four years with the NRC. Initially as Resident Inspector for Construction, Mr. Schepens ensured licensee compliance with NRC license requirements and applicable regulations, conducting inspections in accordance with the 2515 Inspection Program. Mr. Schepens was then promoted to Resident Inspector, Operations where he conducted startup and operations inspections for plant phases ranging from startup and low-power physics testing through full operations including the conduct of readiness reviews for operations and special NRC team inspections.

**Service Manager – General Electric Company, A&ESO**

June 1977-November 1984

Mr. Schepens held several positions with increasing levels of responsibility during his 11 years with General Electric. He started as a Nuclear Field Engineer performing general technical and project management functions associated with the installation, startup, maintenance, and refueling of

commercial boiling water nuclear reactor systems. He was promoted to Nuclear Service Supervisor in 1980 where he was responsible for both the technical execution of service contracts at several major commercial nuclear facilities as well as business management including proposal presentations and contract negotiations. Mr. Schepens' subsequent promotion to Service Manager for Nuclear Startup and Operations expanded his responsibilities to nuclear utilities throughout the U.S. In these positions, Mr. Schepens distinguished himself by leveraging the quality of the services provided into substantial new and expanded contracts and business line growth. Mr. Schepens was promoted to Service Manager, GRDA in 1983 where he was responsible for managing a \$14 million fixed-price contract for the design, procurement, installation, testing, startup, and inspection of 40 systems for a 520 MW coal-fired generating system.

#### **Cognizant Engineer – Ingalls Nuclear Shipbuilding**

May 1975-May 1977

Mr. Schepens was responsible for various aspects on nuclear submarine reactor plant primary and secondary system overhaul, the disposition of non-conforming materials and equipment, and the preparation of work scope summaries for future contract work. Mr. Schepens held a Defense Industrial Security Clearance due to the confidential nature of the systems he dealt with.

#### **EDUCATION**

##### **Maine Maritime Academy**

*Bachelor of Science in Marine Engineering, 1975*

#### **HONORS**

John B. Whitsett Memorial Award for leadership and accomplishment