Resume for Mr. William Troskoski

Qualification Profile

Experience/Skills

Mr. Troskoski has 30-years of nuclear experience ranging from reactor operations through the fuel cycle front end. He was a shift supervisor for a DOE heavy water production reactor, an NRC inspector qualified on both the BWR and PWR series reactors, and a Senior Resident Inspector at a duel unit PWR site. His experience includes pre-operational, startup testing and plant operations. He served as a Regional Coordinator in the Deputy EDO's Office and a Senior Enforcement Specialist in the Office of Enforcement. During the last eleven years, Mr. Troskoski has been involved in all phases of fuel cycle inspection and licensing process.

Education

Bachelor of Science Degree in Chemical Engineering under the Cooperative Program, University of Maryland, 1973.

Accomplishments/Strengths

Certified Reactor Shift Supervisor at Savannah River Plant 1974-1980.

Senior Resident Inspector 1981-1987.

Meritorious Service Award 1998.

Professional Experience

2002 to present — Senior Chemical Safety Technical Reviewer

Responsible for the conduct of license application acceptance reviews and in-depth license application safety reviews in the areas of chemical safety, management measures, quality assurance and integrated safety analysis for the Mixed Oxide Fuel Fabrication Facility, the USEC Lead Cascade, the LES National Enrichment Facility, and the USEC American Centrifuge Plant.

Provided chemical engineering technical assistance to the Office of Investigations and other Federal agencies for a potential wrong doing case involving Hunt valves used on UF_6 cylinders.

Developed and taught several NRC internal fuel cycle training courses.

U.S. NUCLEAR REGULATORY COMMISSION
In the Matter of USEC, Inc.
Docket No. 70-7004 Official Exhibit No. Staff 54A
OFFERED by: Applicant/Licensee Intervenor
NRC Staff Other
IDENTIFIED on Witness/Panel
Action Taken: ADMITTED REJECTED WITHDRAWN
Reporter/Clerk

1993 to 2002

Senior Chemical Safety Fuel Cycle Inspector

Responsible for the development of the Chemical Safety Inspection Program for NRC licensed fuel cycle facilities, including low enriched uranium fuel fabricators, high enriched uranium fuel fabricators, the USEC Gaseous Diffusion Plants (enrichment), and uranium conversion.

Served as the lead chemical safety inspector responsible for scheduling and implementation of the routine inspection program in coordination with the Regional Offices.

Developed Operational Readiness Review Inspection plans and served as the team leader for the restart of the Nuclear Fuel Services high enriched fuel facility and the initial certification of the USEC Gaseous Diffusion Plants at Portsmouth, Ohio and Paducah, Kentucky.

1988 to 1993

Senior Enforcement Specialist

Responsible for the processing and coordination of reactor and fuel cycle escalated enforcement actions, including Proposed Civil Penalties, Imposition of Civil Penalties, and other related Orders. Coordinated actions with the Regional Offices, Program Office, OGC, and OI, when applicable.

1987 to 1988

Regional Coordinator - Deputy EDO's Office

Monitored issues and emerging safety problems for licensees in Region II. Briefed the Deputy EDO as necessary.

1981 to 1987

Senior Resident Inspector

Conducted safety inspections at a duel unit PWR. One unit conducted an extended outage to perform TMI-related modifications and return to power operations. The second unit completed construction, pre-operational testing and initiated startup testing prior to commercial operations. Supervised other resident inspectors.

1980 to 1981

Reactor Inspector - Region I

Performed pre-operational and startup testing inspections at both BWRs and PWRs.

1974-1980

Reactor Shift Supervisor - Savannah River Plant

Supervised reactor operations for a heavy water moderated production reactor.

John T. Buckley

[redacted]

Office: [redacted]

Status: Senior Project Manager Citizenship: U.S. Veterans Preference: No

EMPLOYMENT HISTORY

U.S. Nuclear Regulatory Commission - Office of Federal and State Materials and Environmental Management Programs

Senior Project Manager **1995 - Present**
Decommissioning and Uranium Recovery Licensing Directorate
Supervisor: Claudia Craig (301) 415-7276

I am currently the Project Manager (PM) for four Research & Test Reactors undergoing decommissioning. Since 1995 I have been responsible for the completion of decommissioning activities at two power reactors and three material facilities. As PM, I am responsible for:

- preparing licensing documents;
- reviewing and approving licensee submittals such as license termination plans and final status survey reports;
- preparing environmental assessments, safety evaluation reports and environmental impact statements to support licensing decisions; planning and participating in inspections;
- planning and conducting public meetings; and
- preparing Commission papers.

I am the Technical Project Monitor for technical assistance contracts with Oak Ridge National Laboratory and the U.S. Department of Energy's (DOE's) Radiological and Environmental Sciences Laboratory. As the Project Monitor, I am responsible for:

- preparing Statements of Work;
- reviewing and approving contractor reports; and
- managing the contract budget.

As a senior staff member in the Decomrnissioning and Uranium Recovery Licensing Directorate, I have also been responsible for the development of many key decommissioning documents. I developed the annual Commission Papers on the "Status of the Decommissioning Program" from 2000 through 2006. In addition, I have had a major role in the development of the following guidance and rulemaking documents:

- Administrative Letter on implementation of the Timeliness Rule;
- Office of Nuclear Material Safety and Safeguards Quality Assurance Manual;
- Standard Review Plan for Licensee Requests to Extend the Time Periods Established for Initiation of Decommissioning Activities;
- Temporary Instruction 2800/026 - Follow-up Inspection of Formerly Licensed Sites Identified as Potentially Contaminated; and
- Chapter 13 of the Standard Review Plan for Decommissioning.

Systems Performance Analyst **1993 - 1995**

High Level Waste Branch
Supervisor: Norman Eisenberg (retired)

I was a Technical Monitor for the management of the Nuclear Regulatory Commission's contract with the Center for Nuclear Waste Regulatory Analysis. As a Technical Monitor, I was responsible for:

- providing technical direction to the contractor;
- reviewing and approving contractor reports; and
- managing the contract budget.

In addition, as a Systems Performance Analyst I was responsible for the development of a strategy for computer model validation.

Quality Assurance Engineer **1990 - 1993**
High Level Waste Branch
Supervisor: Ken Hooks (retired)

As a Quality Assurance (QA) Engineer I evaluated the QA Programs of DOE and DOE contractors involved in the high-level waste (HLW) program. Evaluations were based on observations of DOEs audits and the conduct of independent NRC audits of DOEs QA program. In this position, I also developed a HLW QA manual and operating procedures for the conduct of QA audits by HLW staff members.

Mining Engineer **1983 - 1990**
High Level Waste Branch
Supervisor: Mysore Nataraja (301) 415-6695

I was the Technical Project Manager for the Basalt Waste Isolation Project, and a technical team member for the Yucca Mountain Project. In these positions I was responsible for:

- evaluating modeling requirements for geotechnical aspects of the HLW repository;
- evaluating the validity of equations used in codes to model the thermal-mechanical behavior of rock in a HLW repository;
- independently evaluating DOE/DOE contractor analyses; and
- the development and coordination of staff technical positions which provide guidance in the areas of repository design, construction, and operation.

EDUCATION

Master of Science Degree - 1983
Mining Engineering
University of Arizona
Tucson, AZ

Bachelor of Science Degree - 1979

Geology
University of Wisconsin - Eau Claire
Eau Claire, WI

Mounds View High School - 1975
Arden Hills, MN

AWARDS AND ACTIVITIES

- Individual Cash Award - 1/94, 2000, 10/01
- High Quality Step Increase - 9/89, 3/99, 12/00
- Special Act or Service Award - 10/93, 2/96, 7/98, 10/99, 7/00, 2004, 2006
- Performance Award - 1/95, 1/98, 12/99, 2001, 2002, 2004, 2005, 2006

ADDITIONAL TRAINING

I have completed all training requirements for Division of Waste Management Inspectors and License Reviewers, as presented in NRC Manual Chapter 1246. I was qualified as a Decommissioning Project Manager and Technical Reviewer in November 2000. The core training courses that I have completed include:

- Fundamentals of Inspection;
- Root Cause/Incident Investigation;
- Inspecting for Performance;
- Effective Communication for NRC Inspectors;
- OSHA Indoctrination;
- NMSS Site Access Training;
- Introduction to Health Physics;
- Licensing Practices and Procedures;
- NRC Inspection Team Leader Workshop;
- The Regulatory Process; and
- Confident Public Speaking.

I have also completed the specialized training required for employees in decommissioning and high level waste (HLW). This training includes:

- Environmental Transport;
- Radiological Surveys in Support of Decommissioning;
- Environmental Monitoring for Radioactivity;
- Finance for Nonfinancial Professionals;
- MARSSIM;
- Lead Auditor Training;
- General Underground Training;
- General Employee Radiological Training; and
- General Employee Training.

Michael Tokar, Ph.D., P.E.

[redacted]

Telephone: [redacted] e-mail: [redacted]

SKILLS OVERVIEW

Technical, supervisory, and management skills in nuclear facility regulation and nuclear fuels research and development, with particular emphasis in (1) the treatment, storage, transportation and disposal of radioactive wastes, including spent fuel, (2) the development of regulatory requirements and guidance regarding the safety and safeguards of nuclear facilities, including enrichment and fuel fabrication plants, reactors, independent spent fuel storage installations, and waste disposal facilities, (3) the technical review of licensing documents, (4) quality assurance and inspection, and (5) public outreach and risk communication.

PROFESSIONAL EXPERIENCE

Retired from the Nuclear Regulatory Commission (NRC) after almost 30 years of service covering virtually all aspects of the nuclear fuel cycle, including uranium enrichment, fuel fabrication, spent fuel storage and transportation, and radioactive waste disposal. Prior to joining AEC-Regulatory (precursor to NRC) on a 2-year loan in 1973, performed research and development on uranium-plutonium ceramic fuel and other materials at Los Alamos Scientific Laboratory.

Spent Fuel Transportation and Storage, (2001-2003) – As Chief of the Transportation and Storage, Safety and Inspection Section in NRC's Spent Fuel Project Office (SFPO), supervised a group of engineers and scientists and directed a variety of high-profile activities involving (1) the technical review and inspection of 10 CFR Part 71 and Part 72 quality assurance (QA) programs for the transportation and dry cask storage of spent fuel, (2) rulemaking, (3) regulatory guidance development, (4) development and technical review of physical protection measures for the transportation of radioactive materials and the storage of spent fuel at independent spent fuel storage installations (ISFSI's), (5) participation in international cooperative programs for the development of transportation policy and resolution of safety issues, (6) risk communication and public outreach, and (7) technical support for incident and emergency response.

Tank Waste Management/Treatment, (1997-2001) - As Chief of the Tank Waste Remediation Section in NRC's Division of Fuel Cycle Safety and Safeguards, managed and directed a diverse group of scientists and engineers that provided technical support and advice to the DOE Regulatory Unit (RU) on activities related to the Tank Waste Remediation System (TWRS) privatization project at Hanford, WA. Guided development of an interagency Memorandum of Understanding (MOU) that specified the roles and responsibilities of the two agencies. Recruited and supervised a group of specialists that assisted the RU in the performance of safety, safeguards and environmental reviews and developed regulatory guidance (e.g., Standard Review Plans) covering the design, construction, and operation of a TWRS facility. Carried out all the associated management functions, such as development of resource estimates, work schedules, management directives, and policy recommendations to the Commission.

Fuel Cycle Facility Licensing, (1995-1997) - At the request of the NRC's Director of the Office of Nuclear Material Safety and Safeguards, assumed responsibility, as a Section Leader in the Division of Fuel Cycle Safety, for the licensing of uranium fuel fabrication and conversion facilities. Responsibilities included establishing major goals and objectives for the licensing staff and resolving generic issues involving nuclear criticality and chemical process safety, fire protection, and environmental assessment. Under my leadership, licenses were renewed for fuel fabrication facilities that had been in "timely renewal" for several years.

High- and Low-Level Radioactive Waste Management, (1984-1995) – As the Leader of several technical groups NRC's Division of Waste Management (DWM), supervised teams of experts that provided technical assistance to Agreement States, including the development of regulatory guidance on mixed waste and alternative methods of disposal of low-level waste (LLW), the review of topical reports on LLW waste forms and containers, and the resolution of UMTRA geotechnical issues. Directed the development of Standard Review Plans for a LLW disposal facility. Prior to assuming a supervisory position, performed technical reviews of engineered barrier systems and waste forms for a HLW salt repository.

Reactor Licensing and Technical Review, (1975-1984) - As a staff member in NRC's Office of Nuclear Reactor Regulation (NRR), performed technical reviews and managed technical assistance and research projects related to reactor safety. Specialized in the technical review of fuel designs for advanced reactors such as the high-temperature gas-cooled reactor (HTGR) and liquid metal fast breeder reactor (LMFBR). Performed analytical studies of the behavior of light water reactor (LWR) fuel during postulated transients and accidents. Served on NRC special task forces that investigated the TMI and Chernobyl reactor accidents.

Materials R&D, (1967-1975) – At the Los Alamos Scientific Laboratory, performed high temperature property measurements on graphites and advanced LMFBR fuels and developed isotopic (Pu-238) heat sources for space nuclear power applications.

Education

Ph.D., Ceramic Engineering, Rutgers
M.S., Metallurgy, Stevens Institute of Technology
B.S., Metallurgical Engineering, University of Michigan

Additional (NRC-sponsored) Education (Selected Examples)

"Leadership for a Democratic Society" (Federal Executive Institute); "Strategic Planning" (OPM Executive Development Seminar); "Four Roles of a Leader" (Stephen Covey); "Planning and Determining Resources;" "Managing Situationally;" "Risk Communication" (Harvard); "Media Workshop; "Nuclear Criticality Safety;" "Fuel Cycle Technology;" "HTGR Safety" (General Atomic);" "LWR and LMFBR Safety Technology (MIT);" "HAZOPS" (Process Safety Inst.).

Awards

Recipient of numerous NRC Special Achievement, High Quality, and Performance Awards.

Additional Achievements

Registered Professional (Nuclear) Engineer (State of California)
Listed in "American Men & Women of Science" and "Who's Who in Science in the East"