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Jack R. Strosnider, Jr.
Senior Nuclear Safety Consultant

Summary

Mr. Strosnider is a Senior Nuclear Safety Consultant to Talisman. He has more than 35 years of nuclear safety experience. Prior to joining Talisman, Mr. Strosnider held numerous senior management positions at the U.S. Nuclear Regulatory Commission (NRC) including Director of the Office of Nuclear Material Safety and Safeguards, Deputy Director of the Office of Nuclear Regulatory Research, and Director of the Division of Engineering in the Office of Nuclear Reactor Regulation. He was also a supervisor for inspection activities in the NRC's Region I office and worked for two years at the Nuclear Energy Agency in Paris, France.

Since leaving the NRC, Mr. Strosnider has assisted reactor and fuel cycle organizations in developing regulatory strategies to support their organizational goals, assisted in the development and quality review of licensing amendments, participated in preparation of new reactor licensing applications and topical reports, served as an expert witness in license renewal hearing proceedings, provided support in responding to NRC inspection findings and licensing requests and concerns, and assisted clients in assessing performance issues in areas such as safety culture, including safety conscious work environment. He has assisted in the development of the regulatory framework to support development of a new national nuclear power program. He currently serves on several Nuclear Safety Review Boards.

Mr. Strosnider has extensive experience in reactor, fuel cycle, and radioactive materials safety regulation including rulemaking, licensing, inspection and oversight, enforcement, and research activities. In the area of reactor safety he was responsible for NRC programs addressing aging of reactor components, and he directed the engineering reviews for reactor license renewal and new reactor design certifications. He also directed the development of new risk informed regulatory approaches. In the areas of fuel cycle and radioactive materials safety he directed programs for fuel cycle facility safety, spent fuel storage and transportation, high level waste repository safety, decommissioning, waste management and environmental safety, and industrial and medical nuclear safety.

Mr. Strosnider has briefed congressmen, congressional staff, the NRC Commission and the NRC Advisory Committees on Reactor Safety and Nuclear Waste. Briefings included topics ranging from integrity of reactor pressure vessels and steam generators to NRC oversight of fuel cycle facilities and NRC's role in Yucca Mountain. He served as a member of the NRC's Committee for Review of Generic Requirements and PRA Steering Committee.

Education

M.B.A., University of Maryland
M.S., Engineering Mechanics, University of Missouri at Rolla
B.S., Engineering Mechanics, University of Missouri at Rolla

Qualifications

Management - Twenty-two years as a supervisor and manager at the NRC, including 15 years in the Senior Executive Service. Managed organizations with staff of up to 350 and $60 million in annual contracts. Successfully managed complex, interdisciplinary engineering projects and regulatory programs, which required skills in strategic planning, budgeting and performance monitoring. In each of the management positions consistently demonstrated ability to lead change and enhance organizational performance.

Reactor Licensing - As Director of Engineering at the NRC, managed NRC mechanical, materials, electrical and I&C engineering branches that are responsible for areas such as reactor component integrity, equipment qualification, instrumentation and controls, seismic analyses, in-service inspection and testing, and development of risk informed regulatory approaches. Further responsibilities in this position included the following:

- **License Renewal -** Directed engineering reviews and preparation of safety evaluation reports for the first four reactor licenses to be renewed. Managed resolution of first of kind issues associated with license renewal.

- **New Reactor Design Certification** - Managed new reactor design certification engineering reviews and safety evaluation report preparation.

- **Reactor Component Integrity** - Developed and implemented NRC programs for regulation of reactor component aging. Developed responses to industry initiatives, regulations, technical specifications, generic communications, and orders to ensure integrity of reactor pressure vessels, piping, steam generator, pressurizers and other reactor components.

Fuel Cycle and Radioactive Materials Licensing - While Director of the Office of Nuclear Material Safety and Safeguards at the NRC, managed the planning, budgeting and implementation of regulatory programs for fuel cycle facility safety, spent fuel storage and transportation, high level waste repository safety, waste management and environmental safety, and industrial and medical nuclear safety. Programs included rulemaking, licensing, inspection program development, licensee performance and oversight, and security activities. Details of responsibilities within each management area as Director are as follows:

- **Fuel Cycle Facilities** - Managed program for licensing new enrichment facilities and MOX fuel fabrication facility. Participated in oversight of licensee performance via Licensee Performance Reviews.

- **Fuel Storage and Transportation** - Managed program for licensing of Independent Spent Fuel Storage Installations, certification of spent fuel transportation and storage cask, and radioactive material transportation.

- **High Level Waste Repository Safety** - Managed NRC's pre-licensing interactions with DOE on proposed Yucca Mountain repository. Managed program for rulemaking to incorporate revised EPA standards for Yucca Mountain. Successfully certified NRC licensing support network.

- **Waste Management and Environmental Safety** - Managed programs for decommissioning, waste determinations and disposal, and NEPA reviews to support licensing actions.

- **Industrial and Medical Nuclear Safety** - Managed program for licensing materials for industrial and medical applications. Member of the Management Review Board for the Integrated Materials Performance Evaluation Program (IMPEP) providing oversight of agreement state regulatory programs.

Inspection - As Section Chief of Reactor Projects at the NRC, supervised implementation and coordination of all facets of NRC inspection programs at construction and operating sites. This included inspection of construction, pre-operational testing, reactor start-up, operations, maintenance, radiation protection, emergency planning, and allegation activities. Coordinated assessments of licensee performance. As Section Chief of Reactor Safety, supervised the implementation of NRC Region I inspections of licensee in-service inspection and testing, construction, welding and fabrication programs at construction and operating sites. Supervised an NRC nationwide, mobile, non-destructive testing laboratory program that performed independent non-destructive testing (VT, PT, MT, RT, UT) at construction and operating sites.

Research - During position as Research Engineer at the NRC, managed the planning, budgeting and implementation of the NRC's safety research program, which supported licensing, inspection and oversight activities. Programs included all aspects of NRC regulatory activities including mechanical, materials, electrical and I&C engineering; probabilistic risk assessment; development and utilization of reactor analysis codes; evaluation of operating experience; security assessments; radiation protection; environmental protection and waste management.

International - While Scientific Secretary at the Nuclear Energy Agency in Paris, France, responsible for development of international research agreements, international conferences, and support for the Committees on Safety of Nuclear Installations (CSNI) and Nuclear Regulatory Activities (CNRA). Served as Scientific Secretary for Principal Working Group 3 on reactor component integrity, Program for the Inspection of Steel Components (PISC), and the TMI-2 lower vessel head investigation program. Developed the Charter for and established the CNRA Committee on Inspection Practices.

Employment

Talisman International, LLC, Senior Nuclear Safety Consultant, 2007 - Present

U.S. Nuclear Regulatory Commission, 1976 - 2007

Director, Office of Nuclear Materials Safety and Safeguards
Deputy Director, Office of Nuclear Regulatory Research
Director Division of Engineering, NRR
Deputy Director Division of Engineering
Chief, Materials and Chemical Engineering Branch, NRR
Scientific Secretary, OECD Nuclear Energy Agency, Paris, France
Section Chief, Division of Reactor Safety, Region I
Section Chief, Division of Reactor Projects, Region I
Research Engineer, Materials Engineering Branch, RES
Licensing Engineer, Engineering Branch, NRR

University of Missouri at Rolla, 1974 - 1976

Research Assistant
Teaching Assistant

Honors

Meritorious Senior Executive Award 1997 and 2004

Publications

Authored numerous NRC documents including Safety Evaluation reports, NUREG reports and NRC Testimony before Congressional Committees or Subcommittees.