


United States Nuclear Regulatory Commission Official Hearing Exhibit	
In the Matter of:	Entergy Nuclear Operations, Inc. (Indian Point Nuclear Generating Units 2 and 3)
	ASLBP #: 07-858-03-LR-BD01
	Docket #: 05000247 05000286
	Exhibit #: ENT000184-00-BD01
	Admitted: 10/15/2012
	Rejected:
Other:	Identified: 10/15/2012 Withdrawn: Stricken: 11/16/2015

ENT000184
Submitted: March 29, 2012

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QUALIFICATIONS:

- Over 34 years of experience in nuclear safety and regulatory activities
- Demonstrated management and engineering expertise
- Demonstrated ability to provide independent safety and performance assessments
- Successful implementation of complex, interdisciplinary engineering projects and regulatory programs
- Effective strategic planning, budgeting and performance monitoring
- Demonstrated ability in leading change and enhancing organizational performance
- Extensive experience in reactor, fuel cycle and materials safety including: independent safety assessments, rulemaking, licensing, inspection and oversight, enforcement and research

EXPERIENCE:

Nuclear Safety and Licensing Consultant

March 2007 to Present

Provides consulting to nuclear utilities, vendors and fuel cycle facilities on nuclear safety, performance issues, and licensing and inspection activities. Activities include chairing and serving as a member of utility Nuclear Safety Review Boards, performing compliance audits, performing safety culture assessments, advising clients on content and adequacy of new reactor applications, supporting utilities in license renewal hearings, and assisting foreign governments in establishing regulatory requirements.

Director, Office of Nuclear Materials Safety and Safeguards, U.S. NRC

May 2004 to March 2007 (350 staff, ≈ \$20 million in contracts)

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.

Deputy Director, Office of Nuclear Regulatory Research, U.S. NRC

May 2002 to May 2004 (200 staff, ≈ \$60 million in contracts)

Managed the planning, budgeting and implementation of the NRC's safety research program supporting licensing, inspection and oversight activities. Programs included all aspects of NRC regulatory activities including mechanical, materials, electrical and I&C

engineering; development of probabilistic risk assessment tools; development and utilization of reactor analysis codes; evaluation of operating experience; security; radiation and environmental protection; and waste management.

Director, Division of Engineering, Office of Nuclear Reactor Regulation, U.S. NRC

January 1999 to May 2002

Deputy Director, August 1997 to January 1999 (110 staff, ≈ \$2 million in contracts)

Managed NRC materials, mechanical, electrical, and I&C licensing programs. Implemented licensing programs related to reactor component integrity; equipment qualification, instrumentation and controls, seismic analyses, in-service inspection and testing, new reactor design certification and development of risk informed regulatory approaches. Managed engineering reviews associated with license renewal.

Chief, Materials and Chemical Engineering Branch, Office of Nuclear Reactor Regulation, U.S. NRC

September 1992 to August 1997 (35 staff)

Responsible for licensing programs related to reactor component integrity including pressure vessels, pressure vessel internals, pressurizers, steam generator tubes and piping.

Scientific Secretary, Nuclear Energy Agency; Paris, France

August 1990 to August 1992

Responsible for development of international research agreements, international conferences, and support to 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.

Chief, Materials and Processes Section, Division of Reactor Safety, U.S. NRC Region I

November 1986 to August 1990 (12 staff)

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 NRC nation-wide, mobile non-destructive testing laboratory program which performed independent non-destructive testing (VT, MT, RT, UT) at construction and operating sites.

Chief, Reactor Projects Section, Division of Reactor Projects, U.S. NRC Region I

September 1984 to November 1986 (9 staff)

Supervised implementation and coordination of all facets of the 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.

Research Engineer, Materials Engineering Branch, Office of Nuclear Regulatory Research, U.S. NRC
August 1980 to September 1984

Planned and implemented research programs related to reactor component integrity. Developed new approaches to probabilistic fracture mechanics. Project manager for NRC degraded piping program which included analytic and experimental activities to support ASME Code acceptance criteria for cracked piping and for development of PRAISE computer code for probabilistic assessment of piping integrity. Independently wrote the Vessel Integrity Simulation Analysis Code (VISA) for assessing the probability of reactor pressure vessel failure under transient conditions and developed basis for 10 CFR Part 61 to address reactor pressure vessel pressurized thermal shock.

Licensing Engineer, Engineering Branch, Division of Operating Reactors, Office of Nuclear Reactor Regulation, U.S. NRC
April 1976 to August 1980

Performed licensing reviews and wrote safety evaluation reports to support license amendments for operating reactors. Lead technical reviewer for mechanical, materials and structural issues associated with steam generator inspection and maintenance programs, spent fuel pool expansions, and Mark I containment issues. Project manager for generic safety issues associated with steam generator tube and reactor pressure vessel integrity.

EDUCATION:

Bachelors and Masters Degrees in Engineering Mechanics
- University of Missouri at Rolla

Masters Degree in Business Administration
- University of Maryland