



Nuclear Regulatory Commission
Exhibit # - NRC000005-00-BD01
Docket # - 05200012 | 05200013
Identified: 08/18/2011

Admitted: 08/18/2011
Rejected:

Withdrawn:
Stricken:

NRC000005
05/09/2011

Résumé of Richard L. Emch, Jr.

Education: B.S. - Engineering Physics - Louisiana Tech University - 1973
M.S. - Health Physics - Georgia Institute of Technology - 1974

Experience: U.S. Nuclear Regulatory Commission, 1974 to present

2007-Present

Senior Health Physicist in Environmental Technical Support Branch in NRC's Office of New Reactors. Responsible for the technical oversight of NRC staff and contractors on all aspects of radiation protection and postulated accident impact in the environmental review of early site permit and combined license applications, including South Texas Project, Calvert Cliffs, V.C. Summer, Comanche Peak, and Levy County. Negotiated Memorandum of Understanding with U.S. Army Corps of Engineers to allow Corps to participate as cooperating agency in new reactor environmental reviews and developed implementing guidance. Prepared the environmental aspects of COL/ESP-ISG-4, "Interim Staff Guidance on the Definition of Construction and on Limited Work Authorizations," and developed the implementation guidance for the revised LWA rule for both the NRC staff and contractors.

2002-2007

Senior Environmental Project Manager in License Renewal Program in Office of Nuclear Reactor Regulation. Lead multi-disciplinary teams in environmental review of license renewal applications for Robinson, Millstone, Brunswick, and Vermont Yankee nuclear power plants including preparation of environmental impact statements and conducting public meetings. Group expert in radiation protection and postulated accidents including severe accident mitigation alternatives. Published Interim Staff Guidance on review of severe accident mitigation alternatives analyses.

1990-2004

Director of Protective Measures Team at NRC Emergency Operations Center. Supervised team evaluating protective measures of operating reactors during accidents and briefed NRC Emergency Management Team including Chairman of the Nuclear Regulatory Commission.

1999-2002

Section Chief in Division of Licensing Project Management in Office of Nuclear Reactor Regulation. Supervised project managers responsible for management of full range of licensing actions for operating reactors in Region II (Southeast US). Directed NRC response to cracked primary coolant piping weld at Summer plant, including licensing actions for plant restart.

2001

Acting Deputy Director in the Division of Reactor Inspection in Region II Office in Atlanta, GA. Assisted Division Director in management of regional based technical specialist inspectors. Directed regional response to cracked primary coolant piping weld at Summer plant, including enforcement actions.

2000

Acting Chief of the Probabilistic Risk Assessment Branch in the Office of Nuclear Reactor Regulation. Rotational assignment as supervisor of the group responsible for review of Probabilistic Risk Assessments for operating nuclear power plants.

1994-1999

Chief of Radiation Protection Section in the Office of Nuclear Reactor Regulation. Supervised review of radiation protection and design basis accident dose analyses for operating reactors. Directed development of radiation protection cornerstone of new reactor oversight program and development of alternate design basis accident source term for nuclear power plants and implementation at first several plants.

1992-1994

Section Chief in and eventually Acting Branch Chief of the Emergency Preparedness Branch in the Office of Nuclear Reactor Regulation. Acting Branch Chief for last 10 months of 1994. Supervised emergency preparedness reviews for operating reactors.

1987-1992

Section Chief in the Technical Specifications Branch in the Office of Nuclear Reactor Regulation. Supervised development of the improved standard technical specifications for nuclear power plants and efforts to convert operating plants to the improved standard technical specifications.

1986-1987

Technical Assistant to the Director of the Office of Nuclear Reactor Regulation. Advised the Office Director on a wide range of technical programs and developed technical and policy guidance for the Office of Nuclear Reactor Regulation.

1985-1986

Senior Project Manager assigned to the Technical Specification Improvement Program, a special task force chartered by the Director of the

Office of Nuclear Reactor Regulation to make recommendations about how to improve technical specifications for nuclear power plants.

1982-1985

Senior Project Manager (promoted to Senior Project Manager in 1984) in the Division of Licensing in the Office of Nuclear Reactor Regulation. Responsible for managing the licensing activities for one of the oldest nuclear power plants in the US.

1980-1982

Nuclear Engineer in the Operating Reactor Assessment Branch in the Office of Nuclear Reactor Regulation. Performed generic assessments of operating reactor experience to identify problem areas.

1978-1980

Nuclear Engineer in the Environmental Evaluation Branch in the Office of Nuclear Reactor Regulation. Performed reviews of health physics and accident analysis issues for operating nuclear power plants.

1974-1978

Health Physicist in the Radiological Assessment Branch in the Office of Nuclear Reactor Regulation. Performed reviews of radiation protection designs and programs for applications for new nuclear power plants to maintain occupational exposure As Low As is Reasonably Achievable. Also, performed assessments of expected radiation doses to public from routine effluents for applications for new nuclear power plants.