

Nelson Azevedo

Entergy, Indian Point Energy Center

Supervisor, Code Programs

Jan. 2001 to present

Responsible for the Engineering Section which implements the ASME Code programs including Inservice Inspection (ISI), Inservice Testing (IST), Flow Accelerated Corrosion (FAC), Snubber Testing, Boric Acid Corrosion Control, Non-destructive Examination (NDE), Fatigue Monitoring, Steam Generators, Buried Piping, Alloy 600 cracking, Reactor Vessel Embrittlement, Welding and 10CFR50 Appendix J containment leakage program. Also responsible to ensure compliance with the ASME XI Code requirements for all repair and replacement activities at IPEC. Represent IPEC at industry organizations including the PWR Owners Group Management Committee.

Northeast Utilities

Department Manager, Materials Eng. & Code Programs

Jan. 1999 to Jan. 2001

Managed five Sections, with a staff of 38 engineers and other technical support staff responsible for implementation of engineering programs and structural integrity issues at the Millstone Station. Some of the programs included, ASME XI Inservice Inspection (ISI), Inservice Testing (IST), Non-Destructive Examinations (NDE), Steam Generator structural integrity (NEI 97-06), Reactor Vessel Embrittlement Management, Flow Accelerated Corrosion (FAC), Paints and Coatings, Fatigue Management and Welding programs. Represented the Seabrook and Millstone Units in the Electric Power Research Institute (EPRI), MRP Senior Representatives Committee and in other ASME XI and Industry organizations. Responsible for development and management of department budgets, resources and implementation of policies and procedures. Part of the management team, which recovered the Millstone Units after being shutdown for safety and regulatory non-compliance issues.

Supervisor, Structural and Design Engineering

Sept. 1993 to Jan. 1999

Supervised a Section responsible for ensuring compliance with ASME XI, ASME III and ANSI B31.1 Code requirements. Technical areas of responsibility included flaw evaluations, piping stress analyses, ASME III piping and component fatigue evaluations, leak before break implementation, finite element analysis, civil structures, FAC program and Reactor Vessel embrittlement. Responsible for structural integrity of large components including Low Pressure turbines, reactor vessels and steam generators as well as implementation of the A-46, seismic verification program for older units. Represented Seabrook, Connecticut Yankee and Millstone Units in several industry organizations including BWR Vessel Internals Project (BWRVIP), ASME Section XI and EPRI.

Responsible for resolving a variety of structural and equipment performance issues within the NU, Power Generation Division which supported the Nuclear, Fossil and Hydro generating stations. Some of the issues included both high pressure and low pressure steam turbine creep and cracking issues, boiler tube failures, pump and valve performance issues and pipe support issues. Also responsible for performing pipe stress analyses, finite element analysis of large components, ASME XI Flaw evaluations, BWR IGSCC evaluations, and reactor vessel structural integrity and embrittlement issues. Performed ASME III, Class 1 fatigue analyses, developed 10CFR50, Appendix G heat up and cooldown curves, designed weld overlays to mitigate IGSCC and performed upper shelf energy analysis for Connecticut Yankee to respond to GL 92-01 issues. Responsible for implementation of several large projects including S/G tube sleeving and plugging at Millstone 2 and the Connecticut Yankee FAC program following pipe ruptures. Active participant in the industry resolution of Pressurized Thermal Shock issues (PTS rule) and implementation of the Leak Before Break (LBB) methodology which was published by the NRC in NUREG 1061. A member of the EPRI team which developed the SAFER computer program designed to perform run/repair/retire evaluations of degraded High and Low Pressure turbines.

Education

BS, Mechanical and Materials Engineering, 1981

University of Connecticut

MS, Mechanical Engineering, 1984

Rensselaer Polytechnic Institute

MBA, General Management, 1989

Rensselaer Polytechnic Institute