RAS M-302

JOHN R. HOFFMAN, P.E.

SUMMARY QUALIFICATIONS:

Mr. Hoffman has more than 37 years of experience in nuclear power plant engineering in support of both PWR and BWR operating reactors. He has directed mechanical, structural, and civil engineers for the Yankee, Maine Yankee, Vermont Yankee, and Seabrook Nuclear Power Stations. He retired from Entergy Nuclear Vermont Yankee in 2006.

EDUCATION, LICENSES AND CERTIFICATIONS:

Lesley College - M.S., Applied Management (1985)
University of Lowell- M.S., Nuclear Engineering (1977)
The Cooper Union for the Advancement of Science and Art - B.E., Mechanical Engineering (1967)

Registered Professional Engineer - Massachusetts, Vermont

Plant Certification (SRO Level), Vermont Yankee Nuclear Power Corporation (1990)

PROFESSIONAL EXPERIENCE:

Entergy Nuclear Northeast (2002-2006)

Manager - Engineering Projects (2003-2006) - Manages company resources for Vermont Yankee Nuclear Power Station dry cask storage and license renewal projects. Also responsible for Entergy engineering procedure transition.

Manager - Design Engineering (2002-2003) - Managed design engineering resources for Vermont Yankee Nuclear Power Station, encompassing the mechanical, structural, electrical, instrument & control and fluid system technical disciplines.

Vermont Yankee Nuclear Power Corporation (1997-2002)

Superintendent of Design Engineering (2000-2002) - Managed design engineering resources for Vermont Yankee Nuclear Power Station, encompassing the mechanical, structural, electrical, instrument & control and fluid system technical disciplines.

Director of Design Engineering (1999-2000) - Managed design engineering resources for Vermont Yankee Nuclear Power Station, encompassing the mechanical, structural, electrical, instrument & control and fluid system technical disciplines.

Manager - Spent Fuel Storage and Decommissioning (1998-1999) - Managed contractor and in-house personnel involved in preparation and review of spent fuel store and decommissioning planning activities for Vermont Yankee Nuclear Power Station.

Template Secy-028

DS-03

Task Force Leader - Torus Temperature Analysis Project (1998) - Provided project management for a multi-disciplinary team involved in performing a torus temperature analysis for Vermont Yankee Nuclear Power Station.

Project Manager - Design Basis Document Project (1997-1998) - Managed contractor and in-house engineering personnel involved in preparation and review of design basis documents for Vermont Yankee Nuclear Power Station.

Yankee Atomic Electric Company (1971-1997)

Project Manager - Vermont Yankee Design Basis Document Project (1997) - Managed contractor and in-house engineering personnel involved in preparation and review of design basis documents for Vermont Yankee Nuclear Power Station.

Team Leader - Topical Area Reviews (1996-1997) - Managed contractor engineering personnel performing technical reviews for selected topical areas for the Millstone 3 Nuclear Power Station.

Project Manager - Reactor Vessel and Internals Project (1995-1996) - Managed contractor and in-house engineering personnel involved in evaluation of repair options and development of repairs for core shroud for the Vermont Yankee Nuclear Power Station. Activities included manufacturing follow and USNRC licensing reviews.

Project Engineering Manager, Vermont Yankee Project (1989-1995) - Managed engineering department that provides dedicated engineering support to the Vermont Yankee Nuclear Power Station in the areas of electrical, mechanical, I&C, and systems engineering, Oversaw design changes, environmental qualification program, erosion/corrosion program, MOV engineering, and fracture mechanics evaluations.

Manager, Mechanical Services Group (1988-1989) - Managed inservice inspections, MOV testing services, materials engineering, and NDE engineering in support of BWRs and PWRs.

Principal Engineer, Vermont Yankee Project (1986-1988) - Provided project coordination for spent fuel pool expansion. Developed and licensed long-term application of weld overlays to core spray nozzles at Vermont Yankee Nuclear Power Station.

Engineering Supervisor, Recirc Pipe Replacement (1984-1986) - Directed engineering activities related to the design and installation of a replacement recirculation system at Vermont Yankee Nuclear Power Station. Controlled all contracted engineering activities.

Lead Mechanical Engineer, Vermont Yankee Project (1983-1984) - Directed a group of mechanical engineers assigned to the Vermont Yankee Project. Managed and performed seismic analyses, component evaluations to code requirements, and structural design.

Assistant to the Vice President (1982-1983) - Reported to the Vice President, Engineering and Operations. Provided technical consultation and project coordination for major plant modifications including seismic support upgrades, incore instrumentation system repair for the Yankee Nuclear Power Station, and weld overlay design and application for the Vermont Yankee Nuclear Power Station. Helped license Vermont Yankee as the first plant authorized for multi cycle operation with weld overlays. Co-authored a computer program to develop plant heatup/cooldown curves.

Mechanical Engineering Manager (1975-1982) - Directed mechanical engineering staff in the fields of mechanical, structural, materials, and NDE engineering. Provided design and operating support for BWRs and PWRs. Responsible for IEB 79-02 and 79-14 resolution for the Yankee, Vermont Yankee, and Maine Yankee Nuclear Power Stations. Avoided plant shutdowns relative to seismic adequacy questions.

Engineer, Mechanical Engineering Group (1971-1975) - Provided engineering in support of the design, licensing, and operation of the Yankee plants.

Pratt and Whitney Aircraft (1969-1971)

Test Engineer - Developed, conducted, and evaluated tests to qualify aircraft engine bearings and seals.

Westinghouse Bettis Atomic Power Laboratory (1967-1969)

Engineer, Primary Coolant Systems - Provided technical support for plant modifications in the U.S. Navy nuclear submarine program.

PROFESSIONAL AFFILIATIONS AND HONORS:

American Society of Mechanical Engineers, Member (1968-2006)

Electric Power Research Institute (EPRI), Systems and Materials Task Force (1980-86); BWR Owners Group for IGSCC Research (1975-88); Plant Materials Subcommittee (1975-1998)

Atomic Industrial Forum National Environmental Study Program, Task Force on BWR Repairs (1985-1986)

BWR Owners Group Committee on Internals Inspection and Repair (1990-1994)

Recipient of EPRI "First Use" Award for Temperbead Repair Using an Inconel Safe-End Overlay Procedure (1990)

Recipient of EPRI "Technology Transfer Award" for Application of EPRI-Developed IGSCC Resistant Materials (1990)

Recipient of EPRI "Innovator" Award for Application of EPRI-Developed Crack Growth Data to Evaluate Flaws (1993)

SELECTED PUBLICATIONS:

1. "Field Application of a Non-Post Weld Heat Treat Weld Overlay Repair to an Alloy Steel Reactor Pressure Vessel Nozzle," invited paper at EPRI seminar on Repair Welding Alternatives for Nuclear Power Plant Components, Charlotte, North Carolina, co-authors L. E. Mullins, K. R. Willens, and B. K. Darby, 1987.

2. "Pipe Replacement Experience at Vermont Yankee Nuclear Power Station," invited paper at EPRI seminar on Pipe Repair and Replacement, Charlotte, North Carolina, 1987.

3. "Pipe Replacement Experience at Vermont Yankee," invited paper at EPR IGSCC Countermeasures Seminar, Palo Alto, California, co-authors K. R. Willens and W. L. Wittmer, 1986.

4. "Pipe Replacement Planning at Vermont Yankee," invited paper at 8th SMiRT Conference, Brussels, Belgium, 1985.

5. "An Evaluation of IGSCC Remedies for Vermont Yankee Nuclear Power Station," YAEC-1382, August 1983.

6. "Synopsis of Intergranular Stress Corrosion Experience at Vermont Yankee Nuclear Power Station," YAEC-1247, July 1981.

7. "Development of a Fixed-Movable Incore Instrumentation System for Bottom Entry Pressurized Water Reactors in New England," YAEC-1143, December 1977.

8. "Ni-Cr-Fe Alloy 82 Weld Overlay of Nozzles Using Temperbead Technique," invited paper at 1991 American Welding Society Seminar on Maintenance and Repair Welding in Power plants, December 1991, Orlando, Florida.