Northeast
Utilities System

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February 3, 1997

Docket No.50-423
B16218

U.S. Nuclear Regulatory Commission
Attention: Document Control Desk
Washington, DC 20555

Millstone Nuclear Power Station Unit No. 3
Independent Corrective Action Verification Program (ICAVP)

Northeast Nuclear Energy Company, (NNECO), in a December 18, 1996 letter proposed that Sargent & Lundy (S&L) be selected as the ICAVP contractor for Millstone Nuclear Power Station Unit No. 3. Enclosure 5 to the December 18, 1996 letter provided the resumes of the proposed ICAVP team. The attached resume was not included in the enclosure due to an administrative oversight.

Should you have any questions please contact Mr. James M. Peschel at (860) 437-5840.

Very truly yours,

NORTHEAST NUCLEAR ENERGY COMPANY

M.H. Brothers
Vice President - Millstone Unit No. 3

A001

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cc: H. J. Miller, Region I Administrator
W.D. Travers, Dr., Director, Special Projects
J. W. Andersen, NRC Project Manager, Millstone Unit No. 3
A. C. Cerne, Senior Resident Inspector, Millstone Unit No. 3
E.V. Imbro, Deputy Director, ICAVP Oversight, Special Projects Office

Sargent & Lundy

[redacted]
Power Services Group
Project Manager

EDUCATION

Northwestern University - M.B.A. - 1979

University of California - M.S. Applied Mechanics - 1970

Indian Institute of Technology - B.S. Engineering Mechanics - 1968

REGISTRATION

Professional Engineer - Illinois

PROFICIENCIES

Project management
Project cost, schedule, and budget management
Engineering/construction and startup design changes
Cost beneficial licensing actions
Design Basis Documents & System Reviews
Equipment qualification
Valve and pump operability
Motor-operated valves
Component/Piping design and analysis
Commercial-grade dedication
Component/parts classification
Operations & Maintenance
Heating, ventilating, and air conditioning ductwork and supports
American Society of Mechanical Engineers Boiler and Pressure Vessel (ASME BP&V) Code Sections III, VIII, and XI
Nuclear Regulatory Commission (NRC) regulations for safety-related equipment
Computer applications
Component life extension and aging

RESPONSIBILITIES

Mr. [redacted] is responsible for development of new projects and technologies and optimization of work processes. He is also responsible for overall management of projects under his supervision and maintaining the quality of deliverables and for completing projects within budget and on schedule.

Currently he is responsible for the overall management of projects at the Tennessee Valley Authority and assists in the management of projects at South Carolina Electric & Gas Co.

In August 1996, he completed a major FSAR review project for PSE&G which included a review of UFSAR Chapter 15 Accident Analysis versus plant design. Mr. [redacted] has led a pilot effort using risk based PSA techniques to determine component risk/safety significance within safety-related systems. Such an approach can have diverse applications and significant cost savings associated with truncation of the Q-List, ISI/IST programs, reduction in procurement requirements for components/parts and in the development of a graded MOV program. In 1995 he completed and presented to the Korean NRC a report on fatigue evaluation of components resulting from Diesel Generator Vibrations for Yongwang Unit 3. Mr. [redacted] has completed an independent assessment impact of high temperatures on electrical equipment at PSE&G's, Salem Units 1 and 2. He has written equipment evaluation design basis documents for various utilities including Consumers Power Company and PSE&G. Mr. [redacted] has directed equipment verification life cycle management and aging studies for Baltimore Gas & Electric Company's Calvert Cliffs Station work, and provides equipment qualification support for Consumers Power Company's Palisades Station and Commonwealth Edison Company's (ComEd) six nuclear stations.

Mr. [redacted] was responsible for managing the equipment qualification efforts for Commonwealth Edison Company's, Dresden, and Quad Cities stations; Consumers Power Company's Palisades station; Northern States Power Company's Monticello and Prairie Island

stations; and Public Service Electric and Gas Company's Salem and Hope Creek stations from October 1991 through 1996.

From October 1989 through September 1991, Mr. [redacted] worked with the Tennessee Valley Authority as Project Manager and Group Project Manager responsible for the overall budget, schedule, engineering, construction activities, and startup on major capital projects totaling approximately $75 million. His responsibility also included controlling and truncating engineering/construction costs using the available resources and tools. During this assignment the major projects consisted of mechanical/nuclear and civil calculations, ASME piping and supports, miscellaneous commodities (cable trays; heating, ventilating, and air conditioning ducts; and conduit supports), equipment environmental/seismic qualification, and seismic interaction between commodities.

Mr. [redacted] has supervised the work of mechanical and electrical engineers working on nuclear generating stations. Areas of supervision included dynamic and environmental qualification of safety-related mechanical and electrical equipment, including field verification of equipment and the determination of the maintenance, surveillance, and replacement schedules for components; stress and seismic analysis of ASME BP&V Code Section III Class 1, 2, and 3 equipment; and stress analysis of heating, ventilating, and air conditioning components, supports, and ductwork.

Mr. [redacted] coordinates and reviews project schedules with utilities and provides the necessary consultation for NRC publications such as regulatory guides, information and enforcement bulletins, and NUREGs. He writes and evaluates portions of the Safety Analysis Reports and responds to NRC questions on project-specific designs. He represents utilities in the review of equipment vendor bids for mechanical and electrical equipment and represents clients during negotiation with vendors. He assists construction personnel in resolving site-related construction problems initiated by field change requests and nonconformance reports; prepares reports on project schedules; and monitors manpower, project progress, and personnel productivity.

EXPERIENCE

Mr. [redacted] has experience in system and component design, analysis, engineering, layout, and licensing of major nuclear generating stations. He has supervised the work of several engineers on ComEd's Dresden, Quad Cities, and Zion operating nuclear stations. The work primarily involved specific plant modification packages, which required equipment modifications, replacement, and qualification. Mr. [redacted] has also been the supervisor responsible for equipment qualification on ComEd's Byron and Braidwood and Illinois Power's Clinton nuclear power plants.

Mr. [redacted] has performed environmental qualification of Class 1E electrical and active mechanical equipment and has also successfully assisted clients in several environmental qualification and Regulatory Guide 1.97 presentations as well as audits with the NRC.

He coordinated the Pump & Valve Operability Review (PVORT) program for Clinton Power Station, which included the review of operator torque requirements to assure proper sizing for the specific valve applications.

He has performed stress analysis of structures, systems, and components under extreme dynamic loads using finite element methods. He has successfully assisted clients during several NRC seismic qualification review team audits and has directed and coordinated the presentation of reports and documents for audits.

He is familiar with industry codes and standards, including ASME B&PV Sections III, VIII, and XI, and Institute of Electrical and Electronics Engineers standards.

His experience includes the projects listed below.

- **Baltimore Gas & Electric Company**
  - Calvert Cliffs 1 and 2, nuclear, 1829 MW.
    Manager. (1992 to present)

- **Consumers Power Company**
  - Palisades 1, nuclear, 780 MW.
    Manager. (1991 to present)

- **Commonwealth Edison Company**
  - Dresden 2 and 3/Quad Cities 1 and 2, nuclear, 850 MW each.
    Supervisor. (1991 to 1992)
    (1983 to 1984)
  - Byron 1 and 2/Braidwood 1 and 2, nuclear, 1175 MW each.
    Supervisor. (1982 to 1989)
  - Zion 1 and 2, nuclear, 1085 MW each.
    Supervisor. (1983 to 1984)

- **Northern States Power Company**
  - Monticello, nuclear, 569 MW.
    Supervisor. (1991 to 1992)
  - Prairie Island 1 and 2, nuclear, 593 MW each.
    Supervisor. (1991 to 1992)

- **Public Service Electric & Gas Company**
  - Hope Creek Station, nuclear, 1000 MW.
    Supervisor. (1991 to 1992)
  - Salem Units 1 and 2, nuclear, 2298 MW.
    Supervisor. (1991 to Present)

- **Tennessee Valley Authority**
  - Watts Bar 1, nuclear, 1200 MW.
    Project Manager. (1989 to 1991)

- **Tennessee Valley Authority**
  - Watts Bar 1, nuclear, 1200 MW.
  - Project Manager. (1996 to present)

- **Illinois Power**
  - Clinton 1, nuclear, 985 MW.
    Supervisor. (1982 to 1989)

- **South Carolina Electric & Gas Co.**
  - V. C. Summer Station.
    Project Manager. (1996)

MEMBERSHIPS

Chairman of the Structural Subgroup, Committee on Nuclear Air and Gas Treatment (CONAGT);
Member: Subcommittee on General Requirements (CONAGT)
Member: Main Committee

PUBLICATIONS

Mr. [redacted] has submitted numerous reports to utilities. In August 1996, he submitted a report to PSE&G on Design Basis verification-titled "Verification of Analysis Input Assumptions for UFSAR, Chapter 15 Accidents for Safety Related Systems."

He is the author of the following papers:

"Impact of Power Uprate for EQ Equipment in Nuclear Power Plants" presented at the IEEE 1996 Nuclear Symposium and Anaheim, California, November 3-6 1996.

"Reduction of EQ Burden for Mechanical Equipment," IEEE 1995 Nuclear Science Symposium

PUBLICATIONS (continued)

"Fracture Mechanics Evaluation of Reactor Vessel Using Stress Intensity Factors from Enriched Finite Elements," Fifth International SMiRT Conference, Berlin, Germany, August 1979

"Thermal Analysis of Guarded Penetration Assemblies in a Reactor Containment and Cooling Coil Requirements," Fifth International SMiRT Conference, Berlin, Germany, August 1979

"Design of Prequalified Support Systems Subjected to Dynamic Loads," Fifth International SMiRT Conference, Berlin, Germany, August 1979

"Structural Analysis for Safety Relief Valve Discharge Loads," Fourth International SMiRT Conference, San Francisco, California, August 1977

Stress Singularities at the Corner of Plates in Extension, M.S. Thesis at the University of California, 1969