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ROBERT T. LINCOLN, 1872-1889
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July 16, 1984

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BY MESSENGER

DOCKET NUMBER 50-456/457 OL
PROD. & UTIL. DIV.

Douglass W. Cassel, Jr., Esq.
109 North Dearborn Street
Suite 1300
Chicago, Illinois 60602

Dear Doug:

Please be advised that Ernest B. Branch will be testifying on behalf of Commonwealth Edison Company in place of Donald L. Leone. Mr. Branch, like Mr. Leone, is an engineer at Sargent & Lundy, and Mr. Branch will adopt Mr. Leone's testimony. Mr. Branch's professional qualifications and job responsibilities will be filed tomorrow.

Mr. Branch's resume is enclosed.

Very truly yours,

Bruce D. Becker

Bruce D. Becker

BDB/lw
Enclosure
cc: Service List

DS03

*Ivan W. Smith, Chairman
Administrative Judge
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4350 East West Highway
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* service by Federal Express
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Washington, D. C. 20555

Howard A. Wilbur
Administrative Judge
Atomic Safety & Licensing Board
U.S. Nuclear Regulatory Commission
Washington, D. C. 20555

ERNEST B. BRANCH

Associate and Mechanical Design Director

EDUCATION

Virginia Polytechnic Institute - B.S. Engineering Mechanics - 1964

REGISTRATION

Professional Engineer - Illinois

Appointed Associate - 1973

RESPONSIBILITIES

Mr. Branch is the mechanical design director with responsibility for the Engineering Mechanics Division and the Mechanical Design & Drafting Division. He is responsible for the integration and coordination of the divisions' output with that of other divisions and departments. He assigns areas of responsibility to each division and ensures that the divisions perform all assigned work within budget, within schedule and with an acceptable level of quality. He performs other functions and tasks as required by the assistant department manager or the department manager.

EXPERIENCE

Mr. Branch has extensive experience in the stress analysis of piping systems and mechanical equipment for power plants. Before assuming his position as mechanical design director, he was the head of Sargent & Lundy's Engineering Mechanics Division. In this capacity, Mr. Branch directed a group of systems analysts, component analysts, and computer specialists. The division's scope of work involved stress analysis of the piping systems and associated mechanical equipment for major steam-electric generating stations, both nuclear- and fossil-fueled. The division has been responsible for evaluating the seismic qualifications of the safety-related mechanical and electrical equipment used in nuclear plants and provided the piping and equipment criteria used in Safety Analysis Reports. The division also has done design and analysis for penetration assemblies and performed hydraulic and thermal transient analyses for piping and mechanical equipment.

Prior to joining Sargent & Lundy in 1969, Mr. Branch did stress analysis of piping systems for naval nuclear power plants. He determined the specification requirements for the purchase of piping, fittings and valves, and qualified certain pieces of equipment for shock analysis and testing.

ERNEST B. BRANCH

MEMBERSHIPS

American Society of Mechanical Engineers
ASME - Boiler and Pressure Vessel Code

- Section III Committee
- Section III Subgroup on Design
- Section III Working Group on Piping

PUBLICATIONS

"Stress Limits for Class 2 and Class 3 Components under Upset, Emergency, and Faulted Conditions," E. Branch and J. Gascoyne, ASME Paper #76-PVP-61

"The Impact of ASME Section III," Power Magazine, October 1975

"Economic Impact of Seismic Requirements in Nuclear Power Stations," E. Branch and R. Small, Sargent & Lundy General Engineering Conference - 1971

"Transient Thermal Gradient Stress," Heating/Piping/Air Conditioning - January 1971

ERNEST B. BRANCH

SELECTED EXPERIENCE RECORD

Nuclear Power Plant Design Projects

<u>Station - Unit</u>	<u>Rated Gross MW</u>	<u>Operating Date(s)</u>	<u>Client</u>	<u>Assignment</u>	<u>Assignment Date(s)</u>
Zion 1&2	1130 (each)	1973/1974	Commonwealth Edison Company	Division Head	1974 to 1981
Quad Cities 1&2	850 (each)	1972	Commonwealth Edison Company	Division Head	1973 to 1981
Marble Hill 1&2	1175 (each)	1986/1987	Public Service Indiana	Division Head	1973 to 1981
Clinton 1&2	985 (each)	1984/Deferred	Illinois Power Company	Division Head	1972 to 1981
Braidwood 1&2	1175 (each)	1985/1986	Commonwealth Edison Company	Division Head	1972 to 1981
Byron 1&2	1175 (each)	1984/1985	Commonwealth Edison Company	Division Head	1971 to 1981
Dresden 2&3	850 (each)	1971	Commonwealth Edison Company	Division Head	1970 to 1981
La Salle 1&2	1122 (each)	1982/1983	Commonwealth Edison Company	Division Head	1970 to 1981
Zimmer 1	839	1984	The Cincinnati Gas & Electric Company	Division Head	1970 to 1981
Bailly NI	684	Cancelled	Northern Indiana Public Service Company	Division Head	1970 to 1981
Enrico Fermi 2	1123	1983	Detroit Edison Company	Division Head	1970 to 1981
Carroll County 1&2	1175 (each)	2000/2001	Commonwealth Edison Company	Division Head	1978 to 1979
Fort St. Vrain 1	341	1979	Public Service Company of Colorado	Division Head	1970 to 1979