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COUNSELORS AT LAW

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ROBERT T. LINCOLN, 1872-1889  
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BRANCH

BY MESSENGER

Douglass W. Cassel, Jr., Esq.  
109 North Dearborn Street  
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DOCKET NUMBER  
PROD. & UTIL. DIV.

50-456/457 OL

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

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