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USNRC

PROFESSIONAL RESUME
Howard T. Hill, Consulting Engineer

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Education: BCE, George Washington University, 1962
PhD, Princeton University, 1966
MBA, Golden Gate University, 1987

OFFICE OF SECRETARY
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BRANCH

Registration: Civil Engineer, California

Professional Affiliations: Society for Experimental Mechanics
American Nuclear Society

Code and Standards Memberships: ASME B&PV Code, Section III, Division 2, Working
Group on Testing and Overpressure Protection

ASME B&PV Code, Section XI, Working Group on
Concrete Pressure Components

ANSI/ANS 56.8 Working Group, Containment
System Leakage Testing Requirements

Publications: Various papers on testing projects

Experience:

1966-1967 -- Employed by Bechtel Corp., Pipeline Division. Designed marine petroleum terminal facilities including piping, tankage and offshore loading lines.

1967-1977 -- Employed by Bechtel Corp., Scientific Development Department. Prepared conceptual designs for desalination plants and radioactive waste storage facilities. Designed and carried out numerous tests to verify design assumptions and to establish root causes of failures. Testing projects included the following.

- Reactor containment pressure proof tests
- Evaluation of structural vibrations
- Evaluation of equipment vibrations
- Evaluation of water hammer and other hydraulic pressure transient phenomena
- Evaluation of pump failures
- Evaluation of ice loading on Arctic offshore oil loading platform
- Evaluation of high capacity hydraulic jack failures
- Evaluation of piping and support response to dynamic fluid forces and thermal loading
- Evaluation of containment prestressing loads
- Evaluation of flow control valve failures
- Design of specialized testing instrumentation

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NUCLEAR REGULATORY COMMISSION

Docket No. 50-424/425 OLA-3 EXHIBIT NO. II-195

In the matter of Georgia Power Co. et al., Vogtle Units 1 & 2

Staff Applicant Intervenor Other

Identified Received Rejected Reporter SD

Date 9/19/95 Witness Hill and Ward

1977-1979 -- Employed by Bechtel Corp., Los Angeles Power Division. Developed system startup procedures for the San Onofre Nuclear Generating Station (1977). Developed startup procedures and supervised system startup activities at the Lemoniz Plant in Bilbao, Spain (1978-1979).

1980-1987 -- Employed by Bechtel Corp., San Francisco Power Division. Designed and implemented tests similar to those listed above, primarily at nuclear power facilities. Planned and implemented containment integrated leakage rate tests and isolation valve leakage testing programs. Developed specialized instruments for measuring forces in posttensioned concrete containment tendons.

1987-Present -- Consulting engineer specializing in the following activities.

- Design and implementation of safety related tests at nuclear power plants
- Review and evaluation of nuclear power plant testing programs
- Conforming testing programs to changing Federal regulations
- Codes and standards development
- Conducting safety related testing training programs
- Research into pressure retaining capacity of containment structures
- Application of test and measurement technology to the operation of industrial facilities.