

RELATED CORRESPONDENCE

UNITED STATES OF AMERICA
NUCLEAR REGULATORY COMMISSION

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Before the Atomic Safety and Licensing Board

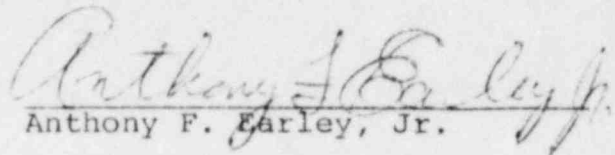
In the Matter of)
LONG ISLAND LIGHTING COMPANY) Docket No. 50-322 (OL)
(Shoreham Nuclear Power Station,)
Unit 1))

MOTION OF LONG ISLAND LIGHTING COMPANY
TO ADD JOSEPH S. BARON AS A WITNESS ON
SC CONTENTION 28(a)(iii) AND SOC CONTENTION 7A(3)

The Long Island Lighting Company respectfully requests permission to add Joseph S. Baron as a supplemental witness on SC Contention 28(a)(iii) and SOC 7A(3). Dr. Baron is a Power Engineer in the Nuclear Engineering Group for Shoreham project at the Stone & Webster Engineering Corporation. His responsibilities include all radiation monitoring equipment including the iodine monitors for Shoreham. Thus, he can aid the Board in providing the desired in-depth discussion of this contention. In this regard, it is expected that Dr. Baron will be particularly helpful in addressing issues related to the answers to questions 5 through 9 and 13 of the prepared testimony of Mr. Schmitt.

Accordingly, the Long Island Lighting Company requests that Dr. Baron be added as a witness on SC Contention 28(a)(iii) and SOC Contention 7A(3).

Respectfully submitted,


Anthony F. Earley, Jr.

Hunton & Williams
707 East Main Street
P. O. Box 1535
Richmond, Virginia 23212

DATED: June 9, 1982

PROFESSIONAL QUALIFICATIONS

Joseph S. Baron

Power Engineer, Nuclear Engineering Group

STONE & WEBSTER ENGINEERING CORPORATION

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My name is Joseph Baron. My business address is 245 Summer Street, Boston, Massachusetts 02107. I am employed by Stone & Webster Engineering Corporation (SWEC) as a Power Engineer and have held this position since January 1973. In this capacity I am currently responsible for the radiation monitoring system for the Shoreham Nuclear Power Station - Unit 1 Project.

I was awarded a Bachelor of Science degree in chemical engineering in 1966, dual Master of Science degrees in chemical and nuclear engineering in 1968, and a Ph.D. in nuclear engineering in 1971, all by Massachusetts Institute of Technology.

Prior to joining SWEC in August 1971, I worked as a part-time Assistant Process Engineer for Diamond Shamrock Company in Cleveland, Ohio. I was responsible for the evaluation of chemical kinetics data, development of a workable kinetics model for use in the design of a production chemical reactor and design of scrubbing towers. Later as a Research Associate with Argonne National Laboratory, I established the setup and calibration of an analytical system for the determination of impurities in sodium. Next, with Oak Ridge National Laboratory as a Research Associate (August 1967 - February 1968), I was responsible for the design of an accurate method of determining the thermal flux history of the irradiation cavity of the high flux isotope reactor,

for feasibility and kinetic studies in the use of amines as dehydrating agents in the microsphere production step of the Sol-Gel process; analysis of the electrical charge distribution in a metallic aerosol; and preparation of reactor physics data for use in an economic evaluation of a high temperature gas-cooled reactor (HTGR). From February 1968 - August 1971 I was involved in resident study towards my master and doctorate degrees.

Upon joining SWEC in August 1971 as an Engineer in the Nuclear Division, I functioned as an Assistant Supervisor in charge of the design and development of light water reactor (LWR) radioactive waste systems as well as consultant in the phenomenon of ion exchange. In this capacity, I interacted with technical staff members involved in other plant systems in an effort to minimize potential radioactive releases. I supervised the simulation group which developed computer models for the operation of radioactive waste systems and for plant effluent releases, both steady state and transient. On assignment to Boston Edison Pilgrim Project, I participated in the conceptual development of alternate radioactive waste processing capability. I was also involved in the evaluation of the existing equipment, and systems to determine the long-term viability. Another activity concerned determination and development of various accident scenarios for the liquid metal fast breeder reactor (LMFBR) prototype project.

On the Wisconsin Utilities Project as Principal Nuclear Engineer (February 1978 - July 1979) I was responsible for all nuclear steam supply system (NSSS) interfaces and the design of systems in the reactor portion of the plant. I participated in the development of

site specific potential accident sequences. On temporary assignment to Virginia Electric and Power Company's Surry project, I assisted in coordinating the proposed primary coolant hot magnetic filter retrofit, which was not installed.

As Principal Nuclear Engineer on the SWEC sponsored Reference Nuclear Power Plant (July 1979 - May 1980), I ensured that systems designs within the reactor portion of the plant met applicable interface criteria for the various pressurized water reactor (PWR) NSSS vendors and developed generic systems descriptions. I participated in the design and development of the concept of the Independent Fuel Storage Facility.

Later, as Lead Nuclear Process Engineer on the Nuclear Power Company, Ltd. (NPC), Project (April 1980 - May 1981), I was responsible for the development of the Civil Demonstration Fast Reactor Cover Gas System design. Additionally, I coordinated design and structural activities for the NPC efforts within the London and Boston offices.

I was also responsible for developing an economical and efficient method of clean the reactor coolant of a boiling water reactor following an inadvertent injection of sodium pentaborate. A constraint was using existing plant equipment. This involved simulation of the various operations to determine the rate limiting step; the development and sequencing of the process to minimize the impact of this step was an integral part of the study for Toyo Engineering, Japan.

Additionally, I was engaged in development of the conceptual process design for a coal slurry dewatering and storage facility. Although a generic design was being developed, specific application was for the Nevada Power and Light Company.

Since assigned as a Power Engineer on the Shoreham Nuclear Power Station - Unit 1 (SNPS-1) Project (May 1981), I am responsible for securing a workable and calibrated radiation monitoring system. This will be achieved through the support of experience in the design and construction of test apparatus, planning experiments and analyzing accumulated data.

I am a Registered Professional Engineer in Massachusetts and a member of the following technical societies: The American Institute of Chemical Engineers, the American Nuclear Society, The American Nuclear Society's Standards Groups developing design criteria for Gaseous and Liquid Radioactive Waste Systems for Light Water Reactors, Sigma Xi - Honorary Research Society, Tau Beta Pi - Honorary Engineering Society and Phi Lambda Upsilon - Honorary Chemical Society.

Publications include "Upper-Bound Cost/Benefit Analysis under Appendix I for a Hypothetical Pressurized Water Reactor," J.S. Baron and R.M. Vanasse, presented at the ANS Toronto meeting in June 1976; and "Treatment of Liquid Wastes," Chapter 6, Nuclear Power Waste Technology, J.S. Baron and B.V. Coplan, ASME (1978).

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In the Matter of)

LONG ISLAND LIGHTING COMPANY)

(Shoreham Nuclear Power Station,)
Unit 1))

Docket No. 50-322 (OL)

CERTIFICATE OF SERVICE

I hereby certify that copies of "LILCO's Motion to Add Joseph S. Baron as a Witness on SC Contention 28(a)(iii) and SOC Contention 7A(3)" were served upon the following by first-class mail, postage prepaid, on June 9, 1982, or by hand, as indicated by an asterisk:

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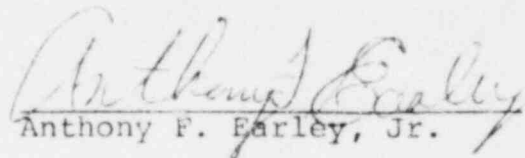
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