



UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D. C. 20555

Docket No.: 50-322

DEC 07 1984

Mr. John D. Leonard
Vice President-Nuclear Operations
Long Island Lighting Company
Shoreham Nuclear Power Station
P.O. Box 618, North Country Road
Wading River, New York 11792

Dear Mr. Leonard:

SUBJECT: COMPLIANCE OF THE SHOREHAM NUCLEAR POWER STATION, UNIT 1 WITH
APPENDIX G OF 10 CFR 50

In Section 5.3.1 of the Shoreham Safety Evaluation Report (NUREG-0420) and Supplement 4 thereto, the NRC staff indicated that exemptions would be required to Paragraphs III.B.3, III. B.4, III. C.2, IV. A.2.C, IV. A.3 and IV B of Appendix G, to 10 CFR 50. After those evaluations were developed, Appendix G was revised, effective July 26, 1983.

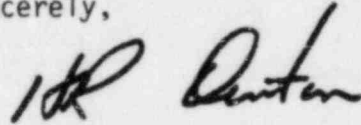
In lieu of the requirements in Appendix G which were discussed in the safety evaluations, the revised Appendix G requires that the fracture toughness program meet the ASME Code edition and addenda, specified in Paragraph 50.55a, 10 CFR 50. As discussed in the original safety evaluation, the fracture toughness test program for Shoreham does not comply with the ASME Code fracture toughness requirements. However, Paragraph III.A of Appendix G permits, for a reactor vessel that was constructed to an ASME Code earlier than the Summer 1972 Addenda of the 1971 edition, that the fracture toughness data and data analyses may be supplemented in a manner approved by the Director, Office of Nuclear Reactor Regulation, to demonstrate equivalence with the fracture toughness requirements of the Appendix. Shoreham was constructed to an ASME Code which was earlier than the Summer 1972 Addenda of the 1971 Edition.

In the earlier safety evaluations the staff evaluated the supplemental fracture toughness data and data analyses which were presented by the applicant and determined that this information demonstrates that the fracture toughness properties of the ferritic reactor coolant pressure boundary materials are equivalent to that required by the Appendix. Hence, exemptions to Appendix G are no longer required.

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E PDR

Accordingly, for the reasons stated above and in the Shoreham Safety Evaluation Report (NUREG-0420) and Supplements thereto, I have determined that the alternative fracture toughness data and data analyses presented for Shoreham are sufficient to demonstrate equivalence with the fracture toughness requirements of Appendix G of 10 CFR 50, and are, therefore, approved.

Sincerely,

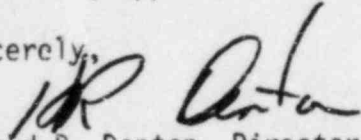
A handwritten signature in black ink, appearing to read "H. R. Denton", written in a cursive style.

Harold R. Denton, Director
Office of Nuclear Reactor Regulation

cc: See next page

Accordingly, for the reasons stated above and in the Shoreham Safety Evaluation Report (NUREG-0420) and Supplements thereto, I have determined that the alternative fracture toughness data and data analyses presented for Shoreham are sufficient to demonstrate equivalence with the fracture toughness requirements of Appendix G of 10 CFR 50, and are, therefore, approved.

Sincerely,


Harold R. Denton, Director
Office of Nuclear Reactor Regulation

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SHOREHAM (5)

Alan S. Rosenthal, Esq. Chairman*
Atomic Safety & Licensing Appeal Board
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Howard L. Blau, Esq.
217 Newbridge Road
Hicksville, New York

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

Atomic Safety & Licensing Appeal
Board Panel*
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Gary J. Edles, Esq.*
Atomic Safety & Licensing
Appeal Board
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Gerald C. Crotty, Esq.
Ben Wiles, Esq.
Counsel to the Governor
Executive Chamber
State Capitol

Herbert H. Brown, Esq.
Lawrence Coe Lanpher, Esq.
Karla J. Letsche, Esq.
Kirkpatrick, Lockhart, Hill,
Christopher & Phillips
1900 M Street, NW - 8th Floor
Washington, DC 20036

Leon Friedman, Esq.
Costigan, Hyman & Hyman
120 Mineola Boulevard
Mineola, New York 11501

Stephen B. Latham, Esq.
John F. Shea, III, Esq.
Twomey, Latham & Shea
Attorneys at Law
P. O. Box 398
33 West Second Street
Riverhead, New York 11901

Atomic Safety & Licensing
Board Panel*
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Howard A. Wilber*
Atomic Safety & Licensing Board
U. S. Nuclear Regulatory Commission
Washington, DC 20555

Resident Inspector
Shoreham NPS, U. S. NRC
Post Office Box B
Rocky Point, New York

Ken Robinson, Esq.
New York State Department
2 World Trade Center
New York, New York 10047

Ezra I. Bialik, Esq.
Assistant Attorney General
Environmental Protection Bureau
New York State Department of Law
2 World Trade Center
New York, New York 10004

Martin Bradley Ashare, Esq.
Suffolk County Attorney
H. Lee Dennison Building
Veteran's Memorial Highway
Hauppauge, New York 11788

Chris Nolin
New York State Assembly
Energy Committee
626 Legislative Office Building
Albany, New York 12248

James B. Dougherty, Esq.
3045 Porter Street, NW
Washington, DC 20008

Fabian G. Palomino, Esq.
Special Counsel to the Governor
Executive Chamber - State Capitol
Albany, New York 12224

Edward M. Barrett, Esq.
General Counsel
Long Island Lighting Company
250 Old County Road
Mineola, New York 11501

Mr. Brian McCaffrey
Long Island Lighting Company
Shoreham Nuclear Power Station
P. O. Box 618
North Country Road
Wading River, New York 11792

Marc W. Goldsmith
Energy Research Group, Inc.
400-1 Totten Pond Road
Waltham, Massachusetts 02154

Mr. William Steiger
Acting Plant Manager
Shoreham Nuclear Power Station
P. O. Box 628
Wading River, New York 11792

MHB Technical Associates
1723 Hamilton Avenue - Suite K
San Jose, California 95125

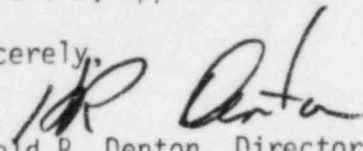
Hon. Peter Cohalan
Suffolk County Executive
County Executive/Legislative Bldg.
Veteran's Memorial Highway
Hauppauge, New York 11788

Mr. Jay Dunkleberger
New York State Energy Office
Agency Building 2
Empire State Plaza
Albany, New York 12223

Ms. Nora Bredes
Shoreham Opponents Coalition
195 East Main Street
Smithtown, New York 11787

Accordingly, for the reasons stated above and in the Shoreham Safety Evaluation Report (NUREG-0420) and Supplements thereto, I have determined that the alternative fracture toughness data and data analyses presented for Shoreham are sufficient to demonstrate equivalence with the fracture toughness requirements of Appendix G of 10 CFR 50, and are, therefore, approved.

Sincerely,


Harold R. Denton, Director
Office of Nuclear Reactor Regulation

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