



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

MAR 14 1986

Docket No. 50-322

Mr. John D. Leonard, Jr.
Vice President - Nuclear Operations
Long Island Lighting Company
Shoreham Nuclear Power Station
P.O. Box 618
Wading River, NY 11792

Dear Mr. Leonard:

SUBJECT: GROUNDWATER MONITORING PROGRAM - SHOREHAM NUCLEAR POWER STATION

Appendix B to Facility Operating License No. NPF-36 contains the Non-Radiological Environmental Protection Plan (EPP) for the Shoreham Nuclear Power Station. Section 4.2.1 of the EPP requires that a program be established, commencing at the initiation of low power testing above 5% power, to establish the effect of station freshwater consumption on ground water levels and quality. By letters dated January 3, 1985 (SNRC-1124), May 21, 1985 (SNRC-1162), and January 16, 1986 (SNRC-1224), you described the groundwater monitoring plan you propose to use to satisfy this requirement. The staff has completed its review of that plan.

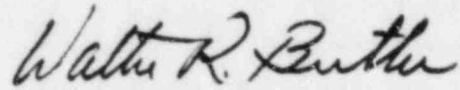
The three Monitoring Wells (M-1, M-2, and M-3) and the one Control Well (C-1) proposed by the licensee are located so as to monitor both the upgradient (inland) and downgradient (seaward) effects on both groundwater levels and chloride content of the groundwater that may result from the station's use of its water supply wells. The nearest upgradient offsite wells are 2500 feet to the west and 2900 feet southwest of the station's wells. The nearest offsite downgradient wells are located on the beach on the north side of Wading River and the adjoining marsh, approximately 2100 feet north of the supply wells. The monitoring wells are located approximately 400 feet to the south-southwest, 900 feet to the south, and 2100 feet to the north, and the control well is 1500 feet to southwest of the station wells. The monitoring well to the north will determine the effects of the station groundwater withdrawal on the downgradient wells while the other monitoring wells will indicate changes in groundwater level and chloride content before upgradient wells are affected.

The staff has also reviewed data on chloride concentration in the station supply wells during the years 1983-1985 and notes that station usage has not resulted in any noticeable increase in chloride concentration in the water withdrawn for plant use. We have also discussed these results with Mr. D. Picha of the New York State Department of Environmental Conservation. He had no objection to the proposed plan.

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PDR ADOCK 05000322
P PDR

Based on this review, the staff has concluded that your groundwater monitoring plan is acceptable and satisfies the requirements of section 4.2.1 of the EPP.

Sincerely,

A handwritten signature in cursive script that reads "Walter R. Butler".

Walter R. Butler, Director
BWR Project Directorate No. 4
Division of BWR Licensing

cc: See next page

Mr. John D. Leonard, Jr.
Long Island Lighting Company

Shoreham Nuclear Power Station
(list 1)

cc:

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

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

W. Taylor Reveley, III, Esq.
Hunton & Williams
707 East Main Street
Post Office Box 1535
Richmond, Virginia 23212

Howard A. Wilber
Atomic Safety & Licensing Appeal Board
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Atomic Safety & Licensing Board Panel
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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

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

Richard M. Kessel
Chairman & Executive Director
New York State Consumer Protection Board
Room 1725
250 Broadway
New York, New York 10007

Jonathan D. Feinberg, Esq.
New York State Department
of Public Service
Three Empire State Plaza
Albany, New York 12223

Gerald C. Crotty, Esq.
Ben Wiles, Esq.
Counsel to the Governor
Executive Chamber
State Capitol
Albany, New York 12224

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

Dr. Monroe Schneider
North Shore Committee
Post Office Box 231
Wading River, New York 11792

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

Anthony F. Earley, Jr., Esq.
General Counsel
Long Island Lighting Company
175 East Old County Road
Hicksville, New York 11801

Mr. Lawrence Britt
Shoreham Nuclear Power Station
Post Office Box 618
Wading River, New York 11792

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

Resident Inspector
Shoreham NPS
U.S. Nuclear Regulatory Commission
Post Office Box B
Rocky Point, New York 11778

Regional Administrator, Region I
U.S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

cc:

Robert Abrams, Esq.
Attorney General of the State
of New York
ATTN: Peter Bienstock, Esq.
Department of Law
State of New York
Two World Trade Center
Room 46-14
New York, New York 10047

Mr. William Steiger
Plant Manager
Shoreham Nuclear Power Station
Post Office Box 628
Wading River, New York 11792

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

Honorable Peter Cohan
Suffolk County Executive
County Executive/Legislative Building
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

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

Peter S. Everett, Esq.
Hunton & Williams
2000 Pennsylvania Avenue, NW
Washington, D.C. 20036

Based on this review, the staff has concluded that your groundwater monitoring plan is acceptable and satisfies the requirements of section 4.2.1 of the EPP.

Sincerely,

Original Signed by

Walter R. Butler, Director
BWR Project Directorate No. 4
Division of BWR Licensing

cc: See next page

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