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Docket No: 50-322

Mr. H. S. Pollock  
 Vice President Nuclear  
 Long Island Lighting Company  
 175 East Old Country Road  
 Hicksville, New York 11801

Dear Mr. Pollock:

Subject: Extension of Construction Completion Date - Shoreham Nuclear Power Station

In response to your request, dated November 26, 1980, the Nuclear Regulatory Commission has issued an order extending the construction completion date for the Shoreham Nuclear Power Station. In lieu of the latest completion date of December 31, 1980, as specified in our Order of May 14, 1979 (44 Fed. Reg. 29545), the latest completion date has been extended to March 31, 1983.

On May 14, 1982, the Shoreham Atomic Safety and Licensing Board (ASLB) issued a memorandum and Order Ruling on SOC's construction permit extension contentions and request for hearing and determined that SOC's failure to raise at least one litigable contention required that its hearing request be denied.

A copy of the Order granting the extension and the staff's evaluation of your request are enclosed for your information. The Order has been forwarded to the Office of the Federal Register for publication.

Sincerely,

Original signed by  
 Darrell G. Eisenhut

Darrell G. Eisenhut, Director  
 Division of Licensing  
 Office of Nuclear Reactor Regulation

Enclosure:

- Order Extending Construction Completion Date
- Staff Evaluation

cc w/enclosure:  
 See next page

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OFFICE	DL:LB#2/LA	DL:LB#2/PM	DL:LB#2/BC	OELD		DL:DIR
SURNAME	EHylton:kw*	RGilbert*	ASchwencer*	BBordenick*		DGEisenhut
DATE	6/29/82	6/29/82	6/30/82	7/8/82	7/13/82	7/15/82

Docket No: 50-322

Mr. M. S. Pollock  
Vice President Nuclear  
Long Island Lighting Company  
175 East Old Country Road  
Hicksville, New York 11801

Dear Mr. Pollock:

Subject: Extension of Construction Completion Date - Shoreham Nuclear Power Station

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In response to your request, dated November 26, 1980, the Nuclear Regulatory Commission has issued an order extending the construction completion date for the Shoreham Nuclear Power Station. In lieu of the latest completion date of December 31, 1980, as specified in our Order of May 14, 1979 (44 Fed. Reg. 29545), the latest completion date has been extended to March 31, 1983.

~~The delay in issuance of this Order is attributable to the disposition by the Shoreham Atomic Safety and Licensing Board (ASLB) of the request for a hearing on the construction permit extension by Shoreham Opponents Coalition (SOC). On May 14, 1982, the ASLB issued a memorandum and Order Ruling on SOC's construction permit extension contentions and request for hearing and determined that SOC's failure to raise at least one litigable contention required that its hearing request be denied.~~

A copy of the Order granting the extension and the staff's evaluation of your request are enclosed for your information. The Order has been forwarded to the Office of the Federal Register for publication.

Sincerely,

Darrell G. Eisenhut, Director  
Division of Licensing  
Office of Nuclear Reactor Regulation

Enclosure:

- 1. Order Extending Construction Completion Date
- 2. Staff Evaluation

cc w/enclosure:

*PA Comment  
2/9/82 JG*

See next page

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SURNAME	EHylton:kw	RGilbert	ASchwencer	RLTedesco	RLTedesco	DGEisenhut
DATE	6/27/82	6/29/82	6/30/82	7/18/82	1/82	1/82

Shoreham

Mr. M. S. Pollock  
Vice President - Nuclear  
Long Island Lighting Company  
175 East Old Country Road  
Hicksville, New York 11801

cc: Howard L. Blau, Esquire  
Blau and Cohn, PC.  
217 Newbridge Road  
Hicksville, New York 11801

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

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

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

W. Taylor Reveley, III, Esquire  
Hunton & Williams  
Post Office Box 1535  
Richmond, Virginia 23212

Ralph Shapiro, Esquire  
Cammer & Shapiro  
9 East 40th Street  
New York, New York 10016

Mr. Brian McCaffrey  
Long Island Lighting Company  
175 E. Old Country Road  
Hicksville, New York 11801

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

David Gilmartin, Esquire  
Suffolk County Attorney  
County Executive/Legislative Bldg.  
Veteran's Memorial Highway  
Hauppauge, New York 11788

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

Stephen Latham, Esquire  
Twomey, Latham & Shea  
Post Office Box 398  
33 West Second Street  
Riverhead, New York 11901

Matthew J. Kelly, Esquire  
Staff Counsel  
New York State Public Service Commission  
Three Rockefeller Plaza  
Albany, New York 12223

Ezra I. Bialik, Esquire  
Assistant Attorney General  
Environmental Protection Bureau  
New York State Department of Law  
2 World Trade Center  
New York, New York 10047

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

Herbert H. Brown, Esquire  
Kirkpatrick, Lockhart, Hill,  
Christopher & Phillips  
1900 M Street, N.W.  
Washington, D.C. 20036

Lawrence Coe Lanpher, Esquire  
Kirkpatrick, Lockhart, Hill,  
Christopher & Phillips  
1900 M Street, N.W.  
Washington, D.C. 20036

Karla J. Letsche, Esquire  
Kirkpatrick, Lockhart, Hill,  
Christopher & Phillips  
1900 M Street, N.W.  
Washington, D.C. 20036

LONG ISLAND LIGHTING COMPANYSHOREHAM NUCLEAR POWER STATIONDOCKET NO. 50-322ORDER EXTENDING CONSTRUCTION COMPLETION DATE

Long Island Lighting Company is the holder of Construction Permit No. CRR-95, issued by the Atomic Energy Commission\* on April 14, 1973, for construction of the Shoreham Nuclear Power Station. This facility is presently under construction at the applicant's site on the north shore of Long Island in the town of Brookhaven, Suffolk County, New York.

On November 26, 1980, the applicant requested an extension of the latest completion date because construction has been delayed by the following events beyond its control:

1. New Regulatory Requirements
2. Evolving Interpretation of Existing Regulatory Requirements
3. Late Delivery of Equipment
4. Unexpected Difficulties in Completion of Required Plant Modifications

This action involves no significant hazards consideration; good cause has been shown for the delays; and the requested extension is for a reasonable period, the bases for which are set forth in the staff's evaluation of the request for extension.

The Commission has determined that this action will not result in any significant environmental impact and, pursuant to 10 CFR 51.5(d)(4), an

\*Effective January 19, 1975, the Atomic Energy Commission became the Nuclear Regulatory Commission and permits in effect on that day were continued under the authority of the Nuclear Regulatory Commission.

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environmental impact statement, or negative declaration and environmental impact appraisal, need not be prepared in connection with this action.

The NRC staff evaluation of the request for extension of the construction permit is available for public inspection at the Commission's Public Document Room, 1717 H Street, N. W., Washington, D. C. 20555 and at the Shoreham-Wading River Public Library, Route 25A, Shoreham, New York 11786.

IT IS HEREBY ORDERED THAT the latest completion date for Construction Permit No. CPPR-95 is extended from December 31, 1980 to March 31, 1983.

FOR THE NUCLEAR REGULATORY COMMISSION

Original signed by  
Darrell G. Eisenhut

Darrell G. Eisenhut, Director  
Division of Licensing  
Office of Nuclear Reactor Regulation

Date of Issuance: *July 15, 1982*

OFFICE	DL:LB 2/LA	DL:LB#2/PM	DL:LB#2/BC	OELD	<del>DL:LB#2/BC</del> DL:DIR	
SURNAME	EHY:Bon:kw	RGilbert	ASchwencer	<i>[Signature]</i>	RLTedesco	DGEisenhut
DATE	<i>6/29/82</i>	<i>6/29/82</i>	<i>6/30/82</i>	<i>7/12/82</i>	<i>07/13/82</i>	<i>7/16/82</i>



EVALUATION OF A REQUEST FOR EXTENSION OF  
PROVISIONAL CONSTRUCTION PERMIT NO. CPPR-95  
SHOREHAM NUCLEAR POWER STATION - DOCKET NO. 50-322

Introduction

A provisional construction permit was issued to Long Island Lighting Company (applicant) on April 14, 1973, authorizing construction of the Shoreham Nuclear Power Station (facility) on the north shore of Long Island in the town of Brookhaven, Suffolk County, New York. The construction permit specified May 1, 1979 as the latest date for completion of construction of the facility. In an Order, dated May 14, 1979, the latest completion date for Construction Permit No. CPPR-95 was extended from May 1, 1979 to December 31, 1980. The applicant requested that this date be extended to March 31, 1983, in their letter of November 26, 1980 (SNRC-517).

Discussion

The applicant's letter (SNRC-517) stated that the delay in completion of construction of the Shoreham Station was due to the following factors which were beyond the control of Long Island Lighting Company:

" 1. New Regulatory Requirements

As a result of the accident at Three Mile Island and the subsequent investigation of that accident, a significant number of new regulatory requirements have been adopted or are in the process of being adopted. Accordingly, LILCO has had to factor additional time into the construction schedule to accommodate:

- A. The time required for the promulgation of final regulatory requirements;
- B. The reworking of systems where existing equipment must be modified and/or replaced; and
- C. The design, procurement and installation of new systems and equipment.

Significant new requirements include the Technical Support Center (TSC), Post-Accident Sampling Facility, and the Emergency Operations Facility (EOF). Each of these necessitates the modification of existing buildings or the construction of new buildings. Additional sampling capability and instrumentation are also being developed to meet the functional requirements of these facilities. Moreover, these regulatory requirements are still in various stages of development.

DESIGNATED ORIGINAL

Certified By

K. E. Webb

~~DATE~~  
~~8207280087~~

2. Evolving Interpretation of Existing Regulatory Requirements

NRC regulations are primarily stated in general terms. Using all available guidance, LILCO and its contractors designed Shoreham such that, in their judgment, compliance with these general requirements was achieved. In exercising its review responsibilities, the NRC staff, on occasion, has questioned compliance with the general Commission regulations. In most instances, LILCO has been able to present sufficient information to resolve these NRC staff concerns. In a number of cases, however, LILCO has elected to incorporate modifications requested by the NRC staff. An example of such modifications is the addition of a new system for loose parts monitoring.\*

3. Late Delivery of Equipment

Late delivery of components has continued to cause delays in the completion of Shoreham. A significant example is the delivery date for the 480 volt LPCI motor generator (MG) sets. To address the NRC staff's concerns raised during preparation of the Shoreham SER, MG sets were incorporated in the design of the LPCI system power supplies. Difficulties in meeting the specifications have caused the vendor's expected delivery date to be delayed from December 1979 until March 1981.

The unavailability of small bore piping valves, orifices, and hanger materials has slowed the completion of piping work in the Main Steam Tunnel. The absence of this equipment not only delayed completion of the systems for which it is needed, but it also had an adverse impact on the completion of other efforts in the area.

4. Unexpected Difficulties in Completing Plant Modifications

There have been unexpected difficulties in modifying systems to meet regulatory requirements. For example, system designs within the Main Steam Tunnel were modified to meet NRC pipe whip, jet impingement, and separation criteria which evolved subsequent to the original design effort. This work has proceeded more slowly than anticipated because of space constraints in the tunnel. Additionally, the delays in completing the piping systems have resulted in secondary delays in electrical conduit and instrumentation installation as noted above.

Another example of the unexpected difficulties in completing the construction effort is reflected in the motor control centers/cable/conduit design and installation difficulties resulting from the imposition of final pipe break analysis criteria."

\*This system is the subject matter of Suffolk County Contention 5, still under NRC staff review, and subject to further litigation.

Based on our review of the applicant's request, we find that the above factors were beyond the applicant's control and constitute good cause for the delay in completion of construction. Since the issuance of the Order extending the latest date for completion of construction to December 31, 1980, the applicant has maintained a construction effort at the Shoreham site and has revised the design of the facility to meet changing regulatory requirements. Based on our evaluation of the causes for the delay, we have determined that the requested extension is for a reasonable period of time.

As a result of our review of the Shoreham Final Safety Analysis Report to date and considering the nature of the delays, we have identified no significant hazards considerations in connection with the extension of the construction completion date. In addition, we find that the only change proposed by the applicant to the existing construction permit is an extension of the latest completion date. This extension will not allow any work to be performed involving new safety information of a type not considered by a previous Commission safety review of the facility and that is not already allowed by the existing construction permit. Therefore, we find that (1) this action does not involve a significant hazards consideration, (2) prior public notice of this action is not required, (3) there is reasonable assurance that the health and safety of the public will not be endangered by extension of the construction completion date, and (4) good cause exists for issuance of an Order extending the completion date.

#### Conclusion

Accordingly, issuance of an Order extending the latest completion date for construction of the Shoreham Nuclear Power Station to March 31, 1983 is reasonable and should be authorized.