

September 22, 1983

Docket No. 50-293

Mr. William D. Harrington
Senior Vice President, Nuclear
Boston Edison Company
800 Boylston Street
Boston, Massachusetts 02199

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Dear Mr. Harrington:

The Commission has issued the enclosed Modification of Order modifying the Orders dated January 13, 1981 and January 19, 1982 for the Pilgrim Nuclear Power Station. This Order continues in effect the exemption and extends the completion date for installation of plant modifications needed to comply with the staff's Acceptance Criteria contained in Appendix A to NUREG-0661 to not later than prior to restart from the mid-cycle 7 modification outage, presently scheduled for February 21, 1985.

In accordance with your request made by letter dated May 10, 1983, this extension is granted to provide additional time to complete modifications related to the torus catwalk extension support legs and ring girder to torus shell welds.

A copy of the enclosed Order is being filed with the Office of the Federal Register for publication.

Sincerely,

Original signed by/

Domenic B. Vassallo, Chief
Operating Reactors Branch #2
Division of Licensing

Enclosure:
Order

cc w/enclosure:
See next page

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*SEE PREVIOUS CONCURRENCE

OFFICE	ORB#2:DL	ORB#2:DL	C-ORB#2:DL	AD=OR:DL	D:DL	OELD
SURNAME	*SNorris:km	*KEccleston	*DVassallo	*GLainas	DEisenhut	
DATE	6/27/83 <i>8/12/83</i>	6/27/83	7/12/83	7/18/83	<i>9/22/83</i>	8/16/83

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 SECY
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Mr. William D. Harrington
 Senior Vice President, Nuclear
 Boston Edison Company
 800 Boylston Street
 Boston, Massachusetts 02199

Dear Mr. Harrington:

The Commission has issued the enclosed Order modifying the Orders dated January 13, 1981 and January 19, 1982 for the Pilgrim Nuclear Power Station. This Order continues in effect the exemption and extends the completion date for installation of plant modifications needed to comply with the staff's Acceptance Criteria contained in Appendix A to NUREG-0661 to not later than prior to restart from the mid-cycle 7 modification utage, presently scheduled for February 21, 1985.

In accordance with your request made by letter dated May 10, 1983, this extension is granted to provide additional time to complete modifications related to the torus catwalk extension support legs and ring girder to torus shell welds.

The issuance of this modifying Order provides an extension of the exemption from General Design Criterion 50 of Appendix A to 10 CFR Part 50 previously granted to the affected licensee on January 13, 1981 as modified by Order dated January 19, 1982.

A copy of the enclosed Order is being filed with the Office of the Federal Register for publication.

Sincerely,

Domenic B. Vassallo, Chief
 Operating Reactors Branch #2
 Division of Licensing

Enclosure:
Order

cc w/enclosure:
See next page

OFFICE	ORB#2:DL	ORB#2:DL	C-ORB#2:DL	AD-OR:DL	D:DL	OELD	
SURNAME	SNorris/dn	KEccleston	DVassallo	GLatnas	DEisenhut		
DATE	6/27/83	6/27/83	6/17/83	6/7/83	6/7/83	6/7/83	

Mr. William D. Harrington
Boston Edison Company
Pilgrim Nuclear Power Station

cc:

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Plymouth, MA 02360

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c/o U.S. NRC
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Henry Herrmann, Esquire
Massachusetts Wildlife Federation
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Boston, Massachusetts 02111

Water Quality & Environmental Commissioner
Department of Environmental Quality
Engineering
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Boston, Massachusetts 02202

Mr. David F. Tarantino
Chairman, Board of Selectmen
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Mr. Robert M. Hallisey, Director
Radiation Control Program
Massachusetts Department of Public Health
600 Washington Street, Room 770
Boston, Massachusetts 02111

UNITED STATES OF AMERICA
 NUCLEAR REGULATORY COMMISSION

In the Matter of)	
)	
Boston Edison Company)	Docket No. 50-293
)	
(Pilgrim Nuclear Power Station))	

Modification of
 January 13, 1981 and
 January 19, 1982 Orders

I.

The Boston Edison Company (the licensee) is the holder of Facility Operating License No. DPR-35 which authorizes the licensee to operate the Pilgrim Nuclear Power Station at power levels not in excess of 1998 megawatts thermal (rated power). The facility is a boiling water reactor located at the licensee's site in Plymouth County, Massachusetts.

II.

On January 13, 1981 the Commission issued an Order modifying the license requiring: (1) the licensee to promptly assess the suppression pool hydrodynamic loads in accordance with NEDO-24583-1 and the Acceptance Criteria contained in Appendix A to NUREG-0661; and (2) design and install any plant modifications needed to assure that the facility conforms to the Acceptance Criteria contained in Appendix A to NUREG-0661. The Order, published in the Federal Register on January 28, 1981 (46 FR 9305) required that installation of any plant modifications needed to provide compliance with the Acceptance Criteria in Appendix A to NUREG-0661 be completed not later than September 30, 1982, or, if the plant

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is shutdown on that date, before the resumption of power thereafter. On January 19, 1982, the Commission issued an Order modifying the completion date specified in Section V of the January 13, 1981 Order. The Order, published in the Federal Register on January 26, 1982 (47 FR 3650) changed the completion date to prior to the start of Cycle 7 (at the completion of the licensee's 1983 refueling outage).

III

On October 31, 1979, the staff issued an initial version of its acceptance criteria to the affected licensees. These criteria were subsequently revised in February 1980 to reflect acceptable alternative assessment techniques which would enhance the implementation of this program. Throughout the development of these acceptance criteria, the staff has worked closely with the Mark I Owners Group in order to encourage plant-unique assessments and modifications to be undertaken.

Since the development of these acceptance criteria significant progress has been made and all of the major modifications have been completed. However, in a May 10, 1983 letter, the licensee stated that additional time is needed to complete the modifications of: (1) the torus catwalk extension support legs, and (2) ring girder to torus shell weld near the T-quenchers to assure accident induced loads are within Mark I Containment Long Term Program acceptance criteria. This additional time is needed to permit the licensee to accomplish the goals of its long-term program for scheduling plant modifications. Rescheduling these modifications will enable the licensee to more effectively manage and control safety related modifications.

Both the catwalk extension support legs and ring girder to torus shell welds were shown to meet the acceptance criteria of the Mark I Containment Short Term Program, thus providing a safety factor of 2 based on ultimate strength. The licensee stated in its May 10, 1983 letter that, although calculated loads exceed the Mark I Containment Long Term Program Acceptance Criteria, failure would not occur and the pressure suppression chamber boundary would remain in tact. The licensee has also stated that the catwalk extension support legs provide no safety related function and that their deformation under accident induced loading conditions would have no impact on safety related structures or equipment. In this regard, the staff concluded in December 1977 in NUREG-0408 "Mark I Containment Short Term Program" that a safety factor to failure of at least 2 exists in the containment system for each operating Mark I BWR facility and that each Mark I containment system would maintain its integrity and functional capability in the event of a design basis LOCA.

These modifications would be the only items identified in the Mark I Long Term Program not completed in accordance with the provisions of the January 13, 1981 and January 19, 1982 Orders. The Commission believes that since all the modifications will have been completed except for the torus catwalk extension support legs and the ring girder to torus shell welds most of the intended margins of safety of the containment systems will have been achieved.

The Commission has therefore determined to permit an extension by approximately ten months of the previously imposed completion dates for needed plant modifications until prior to restart from the mid-Cycle 7 modification outage (now scheduled for February 1985). This Order continues in effect the Exemption to General Design Criteria 50 of Appendix A to 10 CFR Part 50, granted on January 13, 1981.

IV

Accordingly, pursuant to the Atomic Energy Act of 1954 as amended, including Sections 103 and 161i and the Commission's regulations in 10 CFR Parts 2 and 50, IT IS ORDERED that the completion date specified in Section V of the January 13, 1981 "Order for Modification of License and Grant of Extension of Exemption" as modified by the Order of January 19, 1982, for the items listed in Section III of this Order, is hereby changed to read as follows: "Prior to restart from the mid-Cycle 7 Modification Outage." The Order of January 13, 1981, except as modified herein, remains in effect in accordance with its terms.

V

The licensee may request a hearing on this Order within 20 days of the date of publication of this Order in the Federal Register. A request for hearing shall be submitted to the Director, Office of Nuclear Reactor Regulation, U. S. Nuclear Regulatory Commission, Washington, DC 20555. Copies of the request shall also be sent to the Executive Legal Director at the same address.

If a hearing is to be held, the Commission will issue an Order designating the time and place of any such hearing. If a hearing is held concerning this Order, the issue to be considered at such a hearing shall be whether the completion date specified in Section V of the January 13, 1981 "Order for Modification of License and Grant of Extension of Exemption" should be changed for the items listed in Section III of this Order to: "Prior to restart from the mid-Cycle 7 Modification Outage."

This Order shall become effective upon the licensee's consent or upon expiration of the period within which a hearing may be requested or if a hearing is requested by the licensee, on the date specified in an Order issued following further proceedings on this Order.

FOR THE NUCLEAR REGULATORY COMMISSION


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

Dated at Bethesda, Maryland
this 22nd day of September, 1983.