

Docket No. 50-293

April 8, 1988

Mr. Ralph Bird  
Senior Vice President-Nuclear  
Boston Edison Company  
800 Boylston Street  
Boston, Massachusetts 02199

Dear Mr. Bird:

SUBJECT: ENVIRONMENTAL ASSESSMENT OF TECHNICAL EXEMPTION REQUEST RELATING TO  
10 CFR 50, APPENDIX R, REQUIREMENTS FOR PILGRIM NUCLEAR POWER STATION

RE: TAC NO. 66369

Enclosed is a copy of a "Notice of Environmental Assessment and Finding of No Significant Impact" for your information. This notice relates to your request dated October 2, 1987.

The request is for an exemption from the provisions of Section III G.1.(a) of Appendix R to 10 CFR 50 which requires that the capability exists to achieve and maintain hot shutdown from either the Control Room or emergency shutdown station(s) without operator actions classified as repairs.

The notice has been forwarded to the Office of Federal Register for publication.

Sincerely,

**Original signed by:**

Daniel McDonald, Senior Project Manager  
Project Directorate I-3  
Division of Reactor Projects I/II

Enclosure:  
As stated

cc w/enclosure:  
See next page

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Mr. Ralph G. Bird  
Boston Edison Company

Pilgrim Nuclear Power Station

cc:

Mr. K. P. Roberts, Nuclear Operations  
Pilgrim Nuclear Power Station  
Boston Edison Company  
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Mr. James D. Keyes  
Regulatory Affairs and Programs Group  
Leader  
Boston Edison Company  
25 Braintree Hill Park  
Braintree, Massachusetts 02184

UNITED STATES NUCLEAR REGULATORY COMMISSIONBOSTON EDISION COMPANYDOCKET NO. 50-293ENVIRONMENTAL ASSESSMENT AND FINDING OFNO SIGNIFICANT IMPACT

The U. S. Nuclear Regulatory Commission (the Commission) is considering issuance of exemptions from certain requirements of 10 CFR Part 50, Appendix R, to the Boston Edison Company (BECo/licensee) for the Pilgrim Nuclear Power Station located at the licensee's site in Plymouth County, Massachusetts.

ENVIRONMENTAL ASSESSMENTIdentification of Proposed Action:

The proposed action would grant exemptions from certain requirements of Appendix R of 10 CFR Part 50. The exemption was requested from Section III.G.1.(a) to the extent that it requires that capability exists to achieve and maintain hot shutdown from either the Control Room or emergency control station(s) without the need of operator actions classified as repairs. The licensee requested that operator actions which includes repairs be allowed under specific circumstances.

The Need for the Proposed Action:

The proposed exemptions are needed because the plant-specific circumstances and features described in the licensee's request regarding operator action which is the most practical means for meeting the intent of Appendix R and literal compliance would not significantly enhance the fire protection capability. The operator actions identified are required to assure that one train of cables and equipment necessary to achieve and maintain safe shutdown will be available in the event of a fire.

Environmental Impacts of the Proposed Action:

The proposed exemptions, based on the existing physical plant design and fire protection features, will provide a degree of fire protection that is equivalent to that required by Appendix R for the affected areas of the plant such that there is no increase in the risk of fires at this facility. Consequently, the probability of fires has not been increased and the post-fire radiological releases will not be greater than previously determined, nor do the proposed exemptions otherwise affect radiological plant effluents. Therefore, the Commission concludes that there are no significant radiological environmental impacts associated with these proposed exemptions.

With regard to potential non-radiological impacts, the proposed exemptions involve features located entirely within the restricted area as defined in 10 CFR Part 20. They do not affect non-radiological plant effluents and have no other environmental impact. Therefore, the Commission concludes that there are no significant non-radiological environmental impacts associated with the proposed exemptions.

Alternative to the Proposed Action:

Since the Commission has concluded there are no measurable environmental impacts associated with the proposed exemptions, any alternatives with equal or greater environmental impact need not be evaluated. The principal alternative to the exemptions would be to require rigid compliance with the applicable portions of Section III.G.1(a) of the Appendix R requirements. Such action would not enhance the protection of the environment and would result as unjustified costs for the licensee.

Alternative Use of Resources:

This action does not involve the use of any resources not considered previously in the Final Environmental Statements related to the operation of Pilgrim Nuclear Power Station.

Agencies and Persons Consulted:

The NRC staff reviewed the licensee's request and did not consult other agencies or persons.

FINDING OF NO SIGNIFICANT IMPACT

The Commission has determined not to prepare an environmental impact statement for the proposed exemptions. Based upon the foregoing environmental assessment, the NRC staff concludes that the proposed action will not have a significant effect on the quality of the human environment.

For further details with respect to this proposed action, see the licensee's letter dated October 2, 1987. The letter is available for public inspection at the Commission's Public Document Room, 1717 H Street, N.W., Washington, D.C. and at the Plymouth Public Library, 11 North Street, Plymouth, Massachusetts.

Dated at Rockville, Maryland, this 8<sup>th</sup> day of April, 1988.

FOR THE NUCLEAR REGULATORY COMMISSION

*Victor Nerses*

Victor Nerses, Acting Director  
Project Directorate I-3  
Division of Reactor Projects I/II