

DEC 23 1985

Docket No. 50-293

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

Dear Mr. Harrington:

SUBJECT: ADDITION OF BASES FOR TECHNICAL SPECIFICATION 5.5

Re: Pilgrim Nuclear Power Station

By letter dated September 17, 1985 you provided a summary statement of the bases for specification 5.5, Fuel Storage, to be added to the Technical Specifications for Pilgrim Station. We agree that the statement will clarify the bases for this recently modified specification.

Accordingly, we have revised page 207 of the technical specifications and enclosed a copy to be used in place of the page provided with Amendment No. 91.

Sincerely,

~~original signed by~~

John A. Zwolinski, Director  
BWR Project Directorate #1  
Division of BWR Licensing

Enclosure:  
As stated

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

December 23, 1985

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Sincerely,

A handwritten signature in black ink, appearing to read "John A. Zwolinski".

John A. Zwolinski, Director  
BWR Project Directorate #1  
Division of BWR Licensing

Enclosure:  
As stated

cc w/enclosure:  
See next page

Mr. William D. Harrington  
Boston Edison Company

Pilgrim Nuclear Power Station

cc:

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Boston Edison Company  
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Braintree, Massachusetts 02184

## 5.5 FUEL STORAGE

- A. The new fuel storage facility shall be such that the  $K_{eff}$  dry is less than 0.90 and flooded is less than 0.95.
- B. The  $K_{eff}$  of the spent fuel storage pool shall be less than or equal to 0.95.
- C. Fuel assembly in the spent fuel pool shall have a maximum K-infinity less than or equal to 1.35.
- D. The number of spent fuel assemblies stored in the spent fuel pool shall not exceed 2320.
- E. Loads in excess of 1000 lbs. shall be prohibited from travel over fuel assemblies in the spent fuel storage pool.
- F. No fuel which has decayed for less than 200 days shall be stored in racks within an arc described by the height of the cask around the periphery of the energy absorbing pad.

## 5.6 SEISMIC DESIGN

The station Class I structures and systems have been designed for ground accelerations of 0.08g (design earthquake) and 0.15g (maximum credible earthquake).

### BASES:

## 5.5 FUEL STORAGE

The fuel storage assembly K-infinity in Section 5.5.C refers to the maximum K-infinity for the standard reactor core geometry. It is shown in the FSAR that storage of fuel assemblies with a K-infinity  $\leq 1.35$  would result in a  $K_{eff} < 0.95$ , including uncertainties, for both normal and abnormal storage conditions.

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