

ACS MS-016

Docket Nos. 50-266  
and 50-301

NOV 3 1983

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Mr. C. W. Fay  
Vice President Nuclear Power  
Wisconsin Electric Power Company  
231 West Michigan Street  
Milwaukee, Wisconsin 53201

Dear Mr. Fay:

SUBJECT: NUREG-0737 ITEM II.B.2.2, "PLANT SHIELDING MODIFICATIONS  
FOR VITAL AREA ACCESS," POINT BEACH NUCLEAR PLANT, UNIT  
NOS. 1 AND 2

The subject item directed all licensees to perform a design review of plant shielding and to provide for adequate access to vital areas. You responded to this issue in letters dated December 23, 1980, March 31, September 14, 1981, April 26, July 20 and September 24, 1982. We have completed our review of your responses. In conjunction with our review, an NRC inspector from the Office of Inspection and Enforcement conducted a review of the status of your proposed shielding modifications on August 24, 1983. Based on these reviews, we find that the proposed plant shielding modifications for Point Beach Nuclear Plant Units 1 and 2 are acceptable. Our Safety Evaluation is enclosed.

We note that portable shielding for control room doors and windows and the C-59 control panel is not yet installed. However, you have committed to installing this shielding by January 1, 1984 and this commitment was confirmed by NRC Order dated March 14, 1983. We have verified that acceptable interim administrative measures are in place until this shielding installation is complete.

This completes our review of this item for your facilities.

Sincerely,

Original signed by:

James R. Miller, Chief  
Operating Reactors Branch #3  
Division of Licensing

Enclosure:  
Safety Evaluation

cc: See next page

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PKreutzer  
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cc:

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

SAFETY EVALUATION OF NUREG-0737, ITEM II.B.2.2.

DESIGN REVIEW OF PLANT SHIELDING-ACCESS TO VITAL AREAS

WISCONSIN ELECTRIC POWER COMPANY

POINT BEACH NUCLEAR PLANT, UNITS 1 AND 2

DOCKET NOS. 50-266 & 50-301

INTRODUCTION

Following the accident at TMI-2, the NRC staff developed Action Plan NUREG-0660, and "Clarification of TMI Action Plan Requirements" NUREG-0737, to provide for improved safety at nuclear power plants.

NUREG-0737, Item II.B.2 directed all licensees to perform a design review of plant shielding and to provide for adequate access to vital areas. The licensee has not requested technical deviations from the criteria of Item II.B.2.

The following evaluation contains the results of the post-implementation review regarding Item II.B.2.2 entitled Plant Shielding Modifications for Vital Area Access.

EVALUATION

The inspector examined the conclusions resulting from the licensee's shielding review, as contained in the Plant Shielding Review for the Point Beach Nuclear Plant dated December 31, 1979, and in a letter to NRR dated July 20, 1982, which summarized modifications to the Plant Shielding Review.

The shielding review identified several areas which would require the installation of permanent and portable shielding. These included shielding of the C-59 control panel, the 1B32 and 2B32 motor control centers, and certain wall penetrations between the auxiliary and control buildings. Also, additional shielding was recommended for the control room doors and windows. On August 24, 1983, the inspector verified by observation that, except for portable shielding needed for the control room doors and windows and the C-59 panel, the plant modification recommended by the shielding design review had been completed. The needed portable shielding for the control room and C-59 panel will be ordered in the near future and is currently scheduled for installation by January 1, 1984, in accordance with an NRC Order dated March 14, 1983. Interim administrative measures have been implemented to prevent high exposures in these areas in case of an accident.

The inspector reviewed the time and motion study for collection of post-accident samples and traced the path from the radioanalytical laboratory to the areas where the post accident sampling systems are installed. During the walkdown, the inspector discussed potential post-accident sources of radiation with licensee representatives. The inspector did not identify any potential sources of radiation that were not included in the licensee's evaluation.

CONCLUSION

Except for installation of the portable shielding needed for the control room doors and windows, and the C-59 panel, the licensee has acceptably completed the modifications resulting from the plant shielding review for post-accident access to vital areas as outlined in NUREG-0737, Item II.B.2. The licensee's commitments for installation of the remaining portable shielding are acceptable.

Principal Contributor:  
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