



**PUBLIC
SERVICE
INDIANA**

S. W. Shields
Senior Vice President -
Nuclear Division

June 9, 1983
SVP-0099-83

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Docket Numbers: STN 50-546
STN 50-547
Construction Permit Numbers:
CPPR - 170
CPPR - 171

Marble Hill Nuclear Generating Station - Units 1 and 2
Environmental Qualification of Electrical
and Mechanical Equipment
QM270.2 and QM270.3

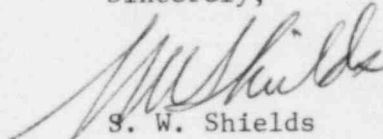
Dear Mr. Denton:

Per your May 10, 1983 request for additional information related to environmental qualification of electrical and mechanical equipment, Public Service Company of Indiana, Inc. (PSI) submits schedular commitments for submittal of our environmental qualification program. The schedular commitments provided in response to QM270.2 and QM270.3 are attached. These responses will be included in the next amendment to the Final Safety Analysis Report.

Also, PSI requests to meet with the staff to discuss our environmental qualification program during the fourth quarter of 1983. Please contact Mr. Gregg A. Sindors to establish a location and time for this meeting.

If you have any questions please contact me at your convenience.

Sincerely,



S. W. Shields

8306140596 830609
PDR ADDCK 05000546
A PDR

SWS/GAS/bak

cc: J. F. Schapker
D. G. Eisenhut
T. M. Novak
B. J. Youngblood
P. W. O'Conner

A048
111

QUESTION M270.2

Prior to the completion of our review of your license application, it is necessary that we establish that you comply with Section 50.49 of 10 CFR Part 50 and GDC 4 of Appendix A to 10 CFR 50. In accordance with 10 CFR 50.49, electric equipment for Marble Hill may be environmentally qualified in accordance with the positions specified in Category I of NUREG-0588. Therefore, you should submit, as a separate report or in Section 3.11 of your FSAR, a description of your environmental qualification program that includes 1) a discussion on how both aging and margin are accounted for in the qualification of equipment, 2) a description of your equipment maintenance/surveillance program, 3) a discussion of how the environmental parameters (temperature, pressure, radiation, submergence, chemical spray, relative humidity) are determined for equipment qualification purposes, 4) a discussion of how synergistic effects and low radiation dose rate effects are addressed, and 5) the information identified in Appendix E of NUREG-0588, with the exception of item 4 of that appendix, including the plant identification number for all equipment and, as applicable, TMI Action Plan (NUREG-0737) item number. The scope of your environmental qualification submittal must include all electrical equipment important to safety, as defined in 10 CFR 50.49, located in a harsh environment.

RESPONSE

In accordance with 10 CFR 50.49, electric equipment for Marble Hill will be environmentally qualified in accordance with the positions specified in Category I of NUREG-0588. An Environmental Qualification Report describing the environmental qualification program will be submitted in March 1985.

QUESTION M270.3

In order to demonstrate compliance with General Design Criterion 4 of Appendix A to 10 CFR Part 50 for mechanical equipment, we require that a review and evaluation be performed that includes the following:

- 1) Identification of safety-related mechanical equipment located in harsh environment areas, including required operating time.
- 2) Identification of the nonmetallic subcomponents of this equipment.
- 3) Identification of the environmental conditions this equipment must be qualified for.
- 4) Identification of nonmetallic material capabilities.
- 5) Evaluation of environmental effects.

We will select approximately three items of mechanical equipment for which documentation of environmental qualification must be provided for our review, along with the results of the review performed for all safety-related mechanical equipment located in harsh environment areas.

Upon receipt of your submittal, we will review your environmental qualification program for compliance with 10 CFR 50.49 and GDC 4 and request any additional information needed to establish its acceptability. We will then perform an audit review of only electrical equipment environmental qualification files and associated installed equipment. Following this audit, SER input will be prepared documenting the results of our review and evaluation. Prior to granting of an operating license, we must be able to conclude that you are in compliance with 10 CFR 50.49 and GDC 4.

RESPONSE

A review and evaluation of the environmental qualification of mechanical equipment as specified in parts 1) through 5) will be included in the Mechanical Environmental Qualification Report, scheduled for submittal in March 1985.