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November 21, 2002

U.S. Nuclear Regulatory Commission
Document Control Desk
Washington, D.C. 20555

Subject: McGuire Nuclear Station, Unit 1
Docket No. 50-369
Supplemental Information
TAC No. MB6528

By letter dated October 3, 2002, McGuire Nuclear Station submitted a request for deviation from the guidelines of 10 CFR 50 Appendix R. Specifically, in lieu of the alternatives provided in Sections III.G.2 and III.G.3 of Appendix R, McGuire proposed the use of fire resistive Appendix R electrical cable manufactured by Meggitt Safety Systems Inc to separate cables associated with redundant trains of systems necessary to achieve and maintain hot shutdown conditions. During a subsequent telephone conference, the NRC requested that McGuire provide supplemental information to support NRC review of the deviation request.

The additional information requested by the NRC and McGuire's response is provided in Attachment A to this letter.

Any questions related to this matter should be directed to Julius Bryant, McGuire Regulatory Compliance at (704) 875-4162.

D. M. Jamil, Vice President
McGuire Nuclear Station

Attachment

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ATTACHMENT A

SUPPLEMENTAL INFORMATION

Item #1

Section 4.3 of Enclosure 1, Attachment 2, states that, "The factory splice is not considered ASTM-E119 fire qualified." Verify that no factory splices are relied upon in the area of concern. If splices are relied upon, provide the technical basis for their use.

Response To Item #1:

There are no factory splices associated with the subject Appendix R electrical cables in the area of concern.

Item #2

Both Enclosure 1, Attachment 1, and Enclosure 2, Attachment 2, provide the electrical load conditions (voltage, current, etc.) that the cables were subject to during the fire test. The deviation request does not provide the electrical load conditions that are expected at the McGuire station. Provide the loads that the fire rated cables are expected to experience and demonstrate that the expected loads at McGuire are bounded by the tested loads.

Response To Item #2:

Some of the circuits served by the subject Appendix R electrical cables are indication circuits continuously energized at 0.4 amps and 125 VDC. The remainder of the circuits served by the cables are valve motor operator control circuits, which are normally de-energized. During valve motor operation, these circuits are briefly energized at 0.4 amps and 125 VDC. As stated in Enclosure 1 Attachment 1 of the deviation request, the test electrical loads were 125 VDC and 2 amps continuous for the duration of the test. Therefore, these test loads bound the expected loads at McGuire.

Item #3

Verify that the hangers for the fire rated cable will survive the fire and that the fire rated cable is protected against mechanical damage from non-fire rated equipment that may fail and fall in the event of a fire in the area.

Response To Item #3:

The subject fire rated cables enter the area of concern vertically through fire rated floor penetrations, run down the length of a wall, and exit the area through fire rated floor penetrations. The run of cables in the area of concern is not supported by hangers. Instead, they are attached with plastic tie-wraps to 4 inch electrical tray which is mounted to the wall.

These trays are not required to ensure the cables have adequate support. Cable support is provided by the cable sheathing and the fire rated floor penetrations through which the cables pass.

The plant area of concern has a small amount of non-fire rated equipment in the vicinity of the fire rated cables. In the unlikely event that non-fire rated equipment (including the 4 inch electrical tray to which the cables are attached) were to fall, the vertical run of fire rated cables in close proximity to the wall would preclude damage sufficient to affect operability of the cables.