



UNITED STATES
NUCLEAR REGULATORY COMMISSION
REGION II
101 MARIETTA SYREET, N.W.
ATLANTA, GEORGIA 30323

JUL 2 1986

MEMORANDUM FOR: Files

THRU: *ARH* A. R. Herdt, Chief, Engineering Branch, Division of Reactor Safety

TEC T. E. Conlon, Chief, Plant System Section, (PSS) Division of Reactor Safety

FROM: P. M. Madden, Fire Protection Specialist, PSS, Division of Reactor Safety

SUBJECT: MEETING WITH DUKE POWER AND NRR REGARDING PERFORMANCE OF ELECTRAY SUPPORTS UPON EXPOSURE TO FIRE - MCGUIRE NUCLEAR STATION DOCKET NOS. 50-369 AND 50-370

On June 10, 1986 a meeting was held at NRC headquarters between NRR, Duke Power Company and NRC Region II to discuss the licensee's structural steel analyses with regard to the performance of the unprotected steel supports supporting protected raceway in the Unit 1 mechanical pipe chase and the Unit 2 auxiliary feedwater pump room after being exposed to an exposure fire.

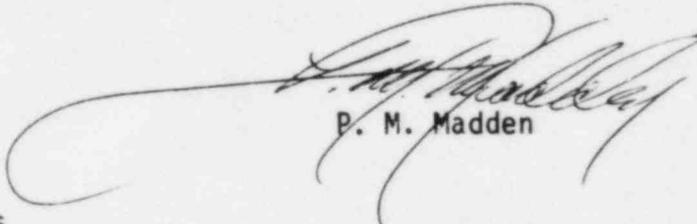
The licensee indicated that the cabling and motor operators associated with auxiliary feedwater (AFW) suction valves 2CA-161C and 2CA-162C were protected inside the Unit 2 motor drive AFW pump room with a one hour fire barrier and that the area was protected by an automatic wet pipe sprinkler system. The licensee indicated that these valves are required to open automatically to align to the Nuclear Service Water System thus, providing a long term source of water supply to the suction of the turbine driven AFW pump. The licensee presented their analysis, which based on the fixed combustibles in close proximity to the subject cables and valves, demonstrates that the structural steel supports supporting the raceway fire barrier would be functional after the fire. The licensee also indicated that the normal water source would be available for four hours. The licensee's position is that this is adequate time for the fire brigade to suppress a fire in the Unit 2 AFW pump room and operators to enter the room to manually realign the valves if necessary.

In addition, the licensee indicated that the unit 1 AFW suction valves 1CA-161C and 1CA -162C and associated cabling are protected by a three hour fire barrier in the Unit 1 pipe chase and mechanical penetration room. The licensee noted that this was a similar situation to the Unit 2 AFW pump room and that these valves were required to be opened within four hours to provided the long term source of water to the Unit 1 Turbine driven AFW pump. The licensee also noted that no fixed fire suppression is installed in the area. However, the area is protected by a fire detection system.

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NRR indicated that the licensee's position on this issue would be enhanced if the licensee would incorporate these manual valve actions into their shutdown procedure. The licensee noted that they would respond to NRR's request by letter.



P. M. Madden

Enclosure:
List of Participants

cc w/encl:
D. Hood, NRR/PWR-A
S. West, NRR/PWR-A
V. Brownlee

ENCLOSURE

MCGUIRE NUCLEAR STATION
STRUCTURAL STEEL FIRE PROOFING TECHNICAL MEETING

JUNE 10, 1986

PARTICIPANTS:

NRC

S. West

F. Rinald

P. Madden

D. Hood

DUKE POWER COMPANY

D. Brades

J. Olden

G. Day