



UNITED STATES
NUCLEAR REGULATORY COMMISSION

WASHINGTON, D.C. 20555-0001

October 24, 1995

MEMORANDUM TO: Robert A. Capra, Director
Project Directorate III-2
Division of Reactor Projects III/IV

FROM: K. Steven West, Chief
Fire Protection Section
Plant Systems Branch
Division of Systems Safety and Analysis

SUBJECT: APPROVAL OF THE PLANT-SPECIFIC 1-HOUR FIRE-RATED DARMATT KM-1
FIRE BARRIER SYSTEM APPLICATION AT THE LASALLE COUNTY
STATION (TAC NOS. M85563 AND M85564)

Plant Name: LaSalle County Station, Units 1 and 2
Licensee: Commonwealth Edison Company
Review Status: Complete

By letter dated April 6, 1994, Commonwealth Edison Company (the licensee) informed the staff that it intended to replace the Thermo-Lag 330-1 fire barriers at LaSalle County Station, Units 1 and 2, with the Darmatt KM-1 fire barrier system. In addition, the licensee submitted its fire test plan for the proposed replacement fire barrier system. By letters dated May 18 and June 22, 1994, the staff requested additional information concerning the test plan, the test laboratory, and the quality controls for the test program. By letters dated June 2 and July 14, 1994, the licensee responded to these requests.

By letter dated September 8, 1994, the licensee submitted a report entitled "Test Report for a 1-Hour Fire Test on Darmatt KM-1 Fire Protection System for Site Configurations at the LaSalle Nuclear Power Plant." The purpose of this test was to qualify the replication of a plant-specific raceway configuration protected by the Darmatt KM-1 fire barrier system to the fire endurance testing and acceptance criteria of Generic Letter 86-10, Supplement 1, "Fire Endurance Test Acceptance Criteria for Fire Barrier Systems Used to Separate Redundant Safe Shutdown Trains Within the Same Fire Area." By letter dated November 17, 1994, the staff requested additional information regarding test specimen construction, thermocouple placement, and certain observations made during the test. By letter dated June 2, 1995, the licensee responded to this request. Finally, during a conference call with the licensee on August 1, 1995, the staff requested clarifications. The licensee responded by letter dated August 28, 1995.

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We have completed our review of the endurance test report and the supplemental supporting information. On the basis of our review, we have concluded that the fire test assembly met the acceptance criteria specified in GL 86-10, Supplement 1. Our safety evaluation (SE) is included as Attachment 1. The ampacity derating input and the seismic capabilities input are not included in the attached SE. These SE inputs will be provided to you by the Electrical Engineering Branch and the Civil Engineering and Geosciences Branch, respectively, at a later date. We recommend that you prepare a single SE that incorporates the three inputs. However, it is acceptable to issue the SEs individually if the missing sections are identified as open items.

Our systematic assessment of licensee performance input is included as Attachment 2.

Docket Nos.: 50-373 and
50-374

Attachments: As stated (2)

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