NIAGARA MOHAWK

NIAGARA MOHAWK POWER CORPORATION/300 ERIE BOULEVARD WEST, SYRACUSE, N.Y. 13202/TELEPHONE (315) 474-1511

August 26, 1985
(NMP2L 0479)

Mr. R. W. Starostecki, Director
U.S. Nuclear Regulatory Commission
Region I
Division of Reactor Projects
631 Park Avenue
King of Prussia, PA 19406

Re: Nine Mile Point - Unit 2
Docket No. 50-410

Dear Mr. Starostecki:

Enclosed is a final report in accordance with 10CFR50.55(e) for the problem concerning curtain-type fire dampers.

This problem was reported via tel-con to S. Collins of your staff on September 7, 1984.

Very truly yours,

C. V. Mangan
Senior Vice President

CVM/GG/cla
(1212H)

xc: Director of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

R. A. Gramm, NRC Senior Resident Inspector

Project File (2)

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NIAGARA MOHAWK POWER CORPORATION
NINE MILE POINT - UNIT 2
DOCKET NO. 50-410

Final Report for a Problem
Concerning Curtain-Type Fire Dampers
(55(e)84-36)

Description of the Problem

The problem pertains to the closure operation under air flow and pressure conditions of Quality Assurance Category I curtain-type fire dampers furnished by Pacific Air Products Company. The concern is that curtain-type fire dampers, especially multiple damper assemblies comprised of single dampers fused separately, have not been tested to ensure that all the units in an assembly are capable of closing under air flow conditions.

An operability test of a representative sample of Quality Assurance Category II and Category III, UL-listed curtain-type fire dampers revealed that some dampers failed to close satisfactorily under air flow and pressure conditions. The test was performed by American Warming and Ventilating, Inc.

Due to the failure of some of the Quality Assurance Category II and III curtain-type fire dampers to close satisfactorily during testing in the presence of air flow, an evaluation of Quality Assurance Category I curtain-type fire dampers was made to ensure that this equipment can close against the system air flow. This evaluation, which was based on the test results of Quality Assurance Category II and III dampers, indicated that there are some Category I dampers not within the range of sizes of fire dampers that satisfactorily passed the testing.

Analysis of Safety Implications

Failure of the curtain-type fire dampers to close, in the event of a fire, may jeopardize the design function of a safety-related component. The primary function of a fire damper is to provide a fire barrier through duct openings of fire-rated partitions.

Therefore, if this problem were to remain uncorrected, the fire protection criteria in accordance with 10CFR50 Appendix R may not be met. Safe shutdown of the plant in the event of a fire could be adversely affected. Based on the above, this problem could have adversely affected the safe operations of tne plant.

Corrective Actions

In order to verify that the dampers in question can close under air flow conditions, an in-place testing for closure under the actual system air flow conditions will be performed on the dampers. These dampers will be tested during the preoperational testing of the Heating, Ventilation and Air Conditioning System. Fire damper closure under air flow conditions will be verified and documented by the in-place field test. This action is expected to be complete by November 30, 1985.