



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

June 29, 1984
(NMP2L 0101)

Mr. R. W. Starostecki, Director
U.S. Nuclear Regulatory Commission
Region I
Division of Project and Resident Programs
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 actuators furnished by G. H. Bettis (55(e)-84-02). This problem was reported via telecon to Mr. S. Collins of your staff on January 4, 1984. An interim report was submitted via letter dated February 1, 1984.

Very truly yours,

T. E. Lempges
Vice President
Nuclear Generation

TEL/TL:ja
Enclosure
xc: Director of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, DC 20555

R. A. Gramm, Resident Inspector

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

Final Report for a Problem Concerning
Actuators Furnished by G. H. Bettis
(55(e)-84-02)

Description of the Problem

The problem concerns the actuators furnished by the G. H. Bettis Company. Based on the information provided by G. H. Bettis, the degradation of the seal due to a chemical reaction between the elastomer and lubricant may increase the stroking time of the actuator. The problem was reported by G. H. Bettis Company to the NRC under 10CFR21 on November 18, 1983.

The following component suppliers have informed the Nine Mile Point Unit 2 Project that their components use G. H. Bettis actuators:

1. Pacific Air Products Company dampers for HVAC systems.
2. Posi-Seal International Incorporated air-operated butterfly valves.
3. Atwood & Morrill Company Incorporated air-operated plug valves.

The Nuclear Regulatory Commission has addressed this problem in IE Information Notice No. 84-31.

Analysis of Safety Implications

An increase in the stroking time of the actuator due to seal degradation may adversely affect the design function of the safety-related component operated by it. Therefore, if this problem were to have remained uncorrected, it could have adversely affected the safety of operation of the plant.

Corrective Actions

As recommended by G. H. Bettis, the following corrective actions have been/will be taken:

1. The Ethylene Propylene (EP) seals in the safety-related actuators furnished by Atwood & Morrill co., Inc. have been replaced with Viton Seals. These actuators are located outside the primary containment.
2. The safety-related actuators furnished by Pacific Air Products and Posi-Seal will be serviced with new EP seals and Dow Corning Molykote 44 lubricant. This action will be complete by January 31, 1985.

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