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AUTH. NAME AUTHOR AFFILIATION
CURTIS, N.W. Pennsylvania Power & Light Co.
RECIP. NAME RECIPIENT AFFILIATION

DOCKET #
05000387
05000388

SUBJECT: Final deficiency rept re hydramotor actuator springs.
Affected dampers have been identified & being controlled.
Actuators will either be replaced or tested to establish
adequacy.

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TITLE: Construction Deficiency Report (10CFR50.55E)

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PP&L

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March 28, 1980

Mr. Boyce H. Grier
Director, Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, Pennsylvania 19406

SUSQUEHANNA STEAM ELECTRIC STATION
FINAL REPORT OF A DEFICIENCY ON ITT
HYDRAMOTOR ACTUATOR SPRINGS
ERs 100450/100508 FILE 840-4
PLA-464 160-M336A

Dear Mr. Grier:

This letter confirms a report made by telephone to NRC Inspector Mr. R. Gallo on January 24, 1980. In that discussion, Mr. Gallo was advised that the above subject condition was under evaluation for reportability under the provisions for 10CFR50.55(e). The condition was reported to the Commission under the provisions of 10CFR21 by ITT General Controls, Glendale, CA in their letter dated December 7, 1979 (Attachment 1).

The deficiency relates to "Q" listed dampers supplied by American Warming and Ventilating Inc. (AWV) and involves a spring, ITT part No. 17443A, used in ITT NH91, 92, 93, 94, 95, 96 and 98 Milliampere Hydramotor Actuators. The springs were discovered to be manufactured from incorrect material and will, upon being actuated through greater than a three (3) inch stroke take a permanent set. This deformation results in a decreased force output of between 40 and 160 pounds for varying positions of spring compression.

Bechtel Corporation has evaluated the actuators provided under Purchase Order 8856-M-336AC for the Susquehanna Steam Electric Station for reportability under provisions of 10CFR50.55(e). These actuators are essential devices to support the HVAC system during LOCA and normal plant operation.

In particular, Bechtel has specifically analyzed actuators tagged HDM07831A and HDM07831B for safety implications. These actuators are supporting the control room HVAC systems and are located on the "A" and "B" fan discharge. When "A" fan is in operation, "B" fan is in stand-by. If HDM07831B fails to close, "A" fan supply air will short circuit thru "B" fan and less air will be delivered to the control room. The control room will then lose pressurization.

March 28, 1980

Other actuators also identified in the Purchase Order perform essential functions; however, their failure would be less significant than the failure of the two mentioned above.

PP&L and Bechtel have therefore concluded that this deficiency, were it to have remained uncorrected, could have affected adversely the safety of operations of the Susquehanna Nuclear Power Plant at any time throughout the expected lifetime of the plant. The deficiency represents a significant deviation from performance specifications which will require extensive repair to establish the adequacy of the HVAC system to meet the criteria and bases stated in the safety analysis report.

All affected dampers have been identified and are presently being controlled by Bechtel Field Inspection Procedure G-3, "Processing of Nonconforming Items", under NCR 5283.

Final corrective action for the defective actuators will consist of either material replacement as indicated in ITT's letter of December 6, 1979 to AWV (Attachment 2) or through performance tests to establish their adequacy as mentioned in ITT's letter of December 7, 1979 to the NRC (Attachment 1).

ITT's internal corrective action for the condition is outlined in their letter to AWV (Attachment 2).

Since the details of this report provide information relevant to the reporting requirements of 10CFR21, this correspondence is considered to also discharge any formal responsibility PP&L may have for reporting in compliance thereto.

Very truly yours,



N. W. Curtis
Vice President-Engineering & Construction

Attachment 1 - ITT letter dated December 7, 1979

Attachment 2 - ITT letter dated December 6, 1979

ARS:mcb

cc: Mr. Victor Stello (15)
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