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Norman W. Curtis
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September 23, 1982

Mr. R. C. Haynes
Director, Region I
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

SUSQUEHANNA STEAM ELECTRIC STATION
INTERIM REPORT OF A DEFICIENCY
INVOLVING THE COPING OF UNIT 2
SHOCK SUPPRESSOR CLAMPS
ER 100508 FILES 821-10/840-4
PLA-1306

Dear Mr. Haynes:

This letter serves to provide the Commission with an interim report of a deficiency relating to Unit 2 Pacific Scientific Shock Suppressors and ITT Grinnell pipe clamps. The deficiency was originally identified as potentially reportable to Mr. L. Tripp of NRC Region I by Mr. A. R. Sabol of PP&L in a telephone conversation on August 20, 1982. The information contained in this report is submitted pursuant to the provisions of 10 CFR 50.55(e).

The attachment to this letter contains a description of the problem, and the information currently available regarding its cause, safety implications, and the corrective action to be taken.

Since the details of this report provide information relevant to the reporting requirements of 10 CFR 21 for Unit II, this correspondence is considered to also discharge any responsibilities PP&L may have in compliance thereto.

We expect to issue a final report on this condition detailing the cause and final corrective actions by February 1, 1983.

Very truly yours,

R J Shovlin for

N. W. Curtis
Vice President-Engineering & Construction-Nuclear

MHC:sab

Attachment

IE27

cc: Mr. Richard C. DeYoung (15)
Director-Office of Inspection & Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. G. McDonald, Director (1)
Office of Management Information & Program Control
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Mr. Gary Rhoads
U.S. Nuclear Regulatory Commission
P.O. Box 52
Shickshinny, PA 18655

INTERIM REPORT

1.0 SUBJECT:

Inadequacies associated with the design, manufacture and installation of Pacific Scientific (PSA) shock suppressors and associated ITT Grinnell pipe clamps in Unit 2 of the Susquehanna Project.

2.0 DESCRIPTION OF DEFICIENCY:

The clearance between the PSA shock suppressor (sizes 1, 3 10, 35 and 100) and ITT Grinnell pipe clamp (306/307) is inadequate to allow conformance to the 5 degree movement criteria specified in the design drawings.

In addition, as a result of the inadequate clearance, the clamps for the shock assembly sizes listed above were in many cases uninstallable as received. The clamp corners and/or ends were coped to facilitate field installation as detailed below:

a) Coping was accomplished by Field Construction without appropriate design authorization (FCR, NCR disposition, etc.) and without Quality Control inspection.

b) Field coping in some cases violated minimum center of load stud to edge of bolt distances provided by ITT Grinnell.

c) In some cases the vendor supplied clamps already coped which violated their own design drawings and their subsequent minimum distance requirements for Field coping.

d) The coping of clamps was not in most cases identified on the hanger details for Project Engineering evaluation.

3.0 CAUSE:

Part of the cause has been determined to be that the five degree movement criteria detailed in Section 2.0 above was never translated into unique hanger detail drawings for Field Engineering or Quality Control verification. Additional investigation as to the complete cause of the deficiency is being performed.

4.0 ANALYSIS OF SAFETY IMPLICATIONS:

Pacific Scientific shock suppressors and ITT Grinnell pipe clamps are used extensively throughout the plant on seismic Category I safety related piping systems. Failure of a shock suppressor to perform properly could lead to overstressing of the pipe resulting in possible pipe rupture. Since this could affect the ability to safely shutdown the plant, this nonconformance is considered reportable under 10CFR50.55(e).

5.0 CORRECTIVE ACTION:

The design, manufacturing, and installation processes are being reviewed by PP&L/Bechtel to determine an appropriate corrective action plan. This plan will address suppressor/clamp assemblies previously installed in Unit II as well as requirements for future installations.

A final report will be issued when the specific cause(s) of the deficiency and scope of corrective action required are clearly determined. It is anticipated that the final report will be submitted by February 1, 1983.