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September 18, 1985

ANPP-33514-TDS/TPS

REGION V III

U. S. Nuclear Regulatory Commission
Region V
1450 Maria Lane - Suite 210
Walnut Creek, CA 94596-5368

Attention: Mr. D. F. Kirsch, Acting Director
Division of Reactor Safety and Projects

Subject: Final Report - DER 85-27
A 50.55(e) Reportable Condition Relating
to Pacific Scientific Pipe Clamps
File: 85-019-026; D.4.33.2

Reference: A) Telephone Conversation between R. C. Sorensen
and T. P. Siegfried on August 20, 1985.

Dear Sir:

Attached is our final written report of the Reportable Deficiency under 10CFR50.55(e), referenced above. The 10CFR21 evaluation is included in this report.

Very truly yours,

EE Van Brunt Jr./JH

E. E. Van Brunt, Jr.
Executive Vice President
Project Director

EEVB/TPS/plk

Attachment

cc: See Page Two

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cc: Richard DeYoung, Director
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U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

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FINAL REPORT - DER 85-27
DEFICIENCY EVALUATION 50.55(e)
ARIZONA NUCLEAR POWER PROJECT (ANPP)
PVNGS UNITS 1, 2, 3

I. Description of Deficiency

Pacific Scientific letter dated July 19, 1985, (Reference A) notified PVNGS that 3/4" and 1" pipe clamps supplied by them are subject to slippage of the clamp circumferentially around the pipe due to conditions in installations. The letter identifies 35 affected pipe clamps supplied to PVNGS which have been installed in Units 1, 2, and 3.

EVALUATION

Cleveland Electric Illuminating Company has reported this condition to the NRC as a 10CFR50.55(e) problem at the Perry Nuclear Station. Correction of the problem is mandatory since slippage of the subject pipe clamps would preclude shock arrestors from performing their function of protecting safety related piping during a seismic event.

The root cause was that Pacific Scientific had used a calculation for a larger pipe clamp for use with these smaller clamps. That calculation did not adequately address the Design Criteria for the smaller clamps and thus resulted in an insufficient torque specification for the identified pipe clamps.

II. Analysis of Safety Implications

As indicated above, this condition has previously been evaluated as reportable under the requirements of 10CFR50.55(e) and Part 21. Should this condition remain uncorrected it would represent a safety significant condition. This report addresses the reporting requirements of 10CFR20.21(b)(3) with the exception of the subpart (vi), regarding the number and location of such components supplied to other facilities.

III. Corrective Action

As specified by Reference A, correction of the problem requires an increase in torque values for the clamp bolts. If the specified torque cannot be achieved by tightening, replacement bolts and nuts will be installed as specified in the referenced letter. The following documents have been initiated to correct the 35 identified pipe clamps. This work will be completed prior to fuel load in Units 2 and 3. Work for Unit 1 is complete.

Unit 1 - EER's 85-SI-115 and 116 - CWO #101189

Unit 2 - EER's 85-RC-116 and 117 - WR #087994 and 087917 respectively
- EER 85-SI-096 - WR #087993

Unit 3 - NCR PC-11344

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The vendor instruction manual has been updated and is retained in the projects documentation system under log no. P209B-2-7.

Bechtel will notify Pacific Scientific and request them to update their review procedures to insure that this will not recur.

REFERENCE

- A. Letter Pacific Scientific to Arizona Public Service Co., July 19, 1985.