

Arizona Public Service Company

P.O. BOX 21666 • PHOENIX, ARIZONA 85036

April 21, 1983

ANPP-23438-RQT/BSK

U. S. Nuclear Regulatory Commission
Region V
Creekside Oaks Office Park
1450 Maria Lane - Suite 210
Walnut Creek, California 94596-5368

Attention: Mr. D. M. Sternberg, Chief
Reactor Projects Branch 1

Subject: Interim Report - DER 82-72
A 50.55(e) Reportable Condition Relating to
Concrete Void In Unit 2 Containment Exterior Wall
File: 83-019-026; D.4.33.2 50-529

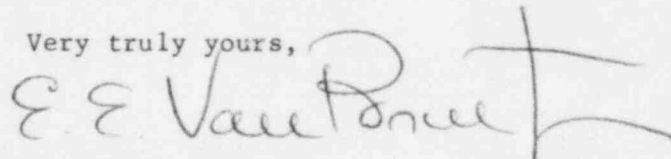
Reference: A) Telephone Conversation between P. Narbut and G. Duckworth
on November 24, 1982
B) ANPP-22591, Dated December 23, 1983 (Interim Report)

Dear Sir:

The NRC was notified of a potentially reportable deficiency in Reference (A), and an Interim Report was transmitted by Reference (B). At that time, it was estimated that a Final Report would be available by April 21, 1983.

Due to the extensive investigation and evaluation required, an Interim Report is attached. It is now expected that this information will be finalized by June 29, 1983, at which time a complete report will be submitted.

Very truly yours,



E. E. Van Brunt, Jr.
APS Vice President
Nuclear Projects Management
ANPP Project Director

EEVB/RQT:db

Enclosure

cc: See Attached Page 2

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PDR ADOCK 05000529
S PDR

IE-27

Mr. D. M. Sternberg
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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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INTERIM REPORT - DER 82-72
POTENTIAL REPORTABLE DEFICIENCY
ARIZONA PUBLIC SERVICE COMPANY (APS)
PVNGS UNIT 2

I. POTENTIAL PROBLEM

Specification 13-CM-158, Rev. 9, Paragraphs D.8.6.2.5 and D.8.6.2.7 requires that the tendon sheathing must be sufficiently leak-tight to hold the sheathing filler material.

When the subcontractor conducted the information air test prior to greasing tendons H32-009 and H32-011, the sheathings revealed excessive leakage to the outside face of the concrete. Further investigation revealed a concrete surface irregularity in the exterior containment wall at the point of air leakage. Investigation of this surface irregularity by chipping has revealed a crack generally parallel to the concrete surface and located up to five inches (5') from the surface.

II. APPROACH TO AND STATUS OF PROPOSED RESOLUTION

Bechtel Engineering has performed an investigation of this condition. The investigation has consisted of three (3) parts as follows:

1. The leaks inside the tendon sheaths were located by isolating consecutive 20-foot sections of the sheaths by means of two (2) inflatable packers, placed one (1) at either end of the section, then pressurizing each section with air to check for leakage.
2. After locating the leaks in this fashion, air and then water were pumped through the leak pathways to study the characteristics of the leaks. Exit points on the face of the Containment Building wall were mapped out, and measurements were made of the pressures required to pump the water through the leak system, and the volume of water required to fill the leak pathways. Measurements of flow rates and water level elevations within the wall were also made to verify the absence of large voids within the wall.
3. The water testing showed that cement grout could be effectively pumped through the leak pathways to provide a seal for the tendon sheaths. Based on the collected data a grouting procedure has been developed and will be implemented in early April, 1983. Upon completion of grouting, the leaking sheaths will be capable of holding the sheathing filler material as per project specification 13-CM-158, and installation of the two (2) tendons may proceed.

III. PROJECTED COMPLETION OF CORRECTIVE ACTION
AND SUBMITTAL OF THE FINAL REPORT

Evaluation of this condition and submittal of the Final Report is forecast to be completed by June 29, 1983.