

Arizona Public Service Company

P.O. BOX 21666 • PHOENIX, ARIZONA 85036

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REGION V

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

Attention: Mr. T. W. Bishop, Director  
Division of Resident  
Reactor Projects and Engineering Programs

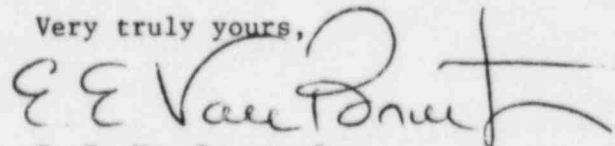
Subject: Final Report - DER 83-54  
A 50.55(e) Reportable Condition Relating to Washers Found In  
Unit 1 Steam Generators #1 and #2.  
File: 84-019-026; D.4.33.2

Reference: A) Telephone Conversation between P. Narbut and R. Tucker on  
August 2, 1983  
B) ANPP-27603, dated August 22, 1983 (Interim Report)  
C) ANPP-28009, dated October 13, 1983 (Time Extension)  
D) ANPP-28461, dated December 19, 1983 (Time Extension)

Dear Sir:

Attached is our final written report of the deficiency referenced above,  
which has been determined to be Not Reportable under the requirements of  
10CFR50.55(e).

Very truly yours,



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

EEVB/TRB:ru  
Attachment

cc: See Page Two

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PDR FOIA  
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Mr. T. W. Bishop  
DER 83-54  
Page Two

cc: Richard DeYoung, Director  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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Institute of Nuclear Power Operations  
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FINAL REPORT - DER 83-54  
DEFICIENCY EVALUATION 50.55(e)  
ARIZONA PUBLIC SERVICE COMPANY (APS)  
PVNGS UNIT 1

I. Description of Deficiency

Inspection after hot functional testing revealed that various loose parts (i.e., washers and a 3 inch type plug) were found in Unit 1 Steam Generators No. 1 and No. 2.

It has been determined that the loose parts came from Combustion Engineering (C-E) temporary instrumentation hardware installed inside the Reactor Pressure Vessel (RPV) on the Core areas. This instrumentation was used to provide baseline data during the Pre-Critical Vibration Monitoring Program (PVMP). The instrumentation was removed from the RPV after completion of the test.

II. Analysis of Safety Implications

Bechtel requested assistance from C-E in evaluating and dispositioning this condition and concurs with the attached CE disposition that the condition is not safety significant. The temporary instrumentation hardware size and material selection was based on worst case hardware breakaway, so that vital areas of the Steam Generators would not be harmed by this condition. Also, the testing flow parameters indicated that any loose parts would be trapped and easily removed upon completion of the PVMP. Therefore, this condition is evaluated as not reportable under the requirements of 10CFR50.55(e).

III. Corrective Action

- A. Loose parts will be removed from Unit 1 Steam Generators No. 1 & 2. NCR SM-2435 will refer to DER 83-54 and be dispositioned based on this corrective action.
- B. The RPV and remainder of the PCS system will be inspected for loose parts after RPV head removal.
- C. Action to preclude recurrence is not applicable since the PVMP will only be performed in Unit 1 (Reference V-CE-15987, dated 2/26/82).

POWER  
SYSTEMSSeptember 9, 1983  
V-CE-18986

Mr. W. G. Bingham  
Bechtel Power Corporation  
12400 East Imperial Highway  
Newark, CA 90650

Subject: Steam Generator Bevel Washers and Plug  
DER 83-54 (Unit 1).

Reference: Bechtel letter B/CE-E-45597  
dated August 5, 1983

Dear Mr. Bingham:

The conditions listed in the subject DER, received by Reference (A) have been reviewed and the following is our evaluation as to the reportability in accordance with 10CFR 50.55(e).

It has been determined that the loose parts came from temporary instrumentation installed for data acquisition during pre-service testing. The malfunction of same will not jeopardize operation of the Steam Generators.

The loose parts will impact the primary head and tubesheet in a completely random manner therefore, repeatedly striking the same point is extremely unlikely and there will be no exposure of base metal. The tubes are recessed in the tubesheet therefore the size of the loose parts preclude them damaging any of the heat transfer surface. The material of the loose parts is compatible with the clad on the primary head so that there will be no corrosive effects.

In CE's opinion, the deficiency is not reportable under 10CFR 50.55(e). CE's evaluation was performed in accordance with our Quality Assurance of Design Manual as indicated by FAR No. 14273 -958 (Unit 1). These documents are available for review at the CE Windsor office.

Very truly yours,

*MFBamali*

C. Ferguson  
Project Manager

CF/JJS/mr

cc: Messrs: E. E. Van Brunt, Jr.  
G. C. Andognini  
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