

Arizona Public Service Company

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August 16, 1984  
ANPP-30258-TDS/TRB

REGION V I&E

U. S. Nuclear Regulatory Commission  
Region V  
Creskide 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: Interim Report, Revision 1 - DER 84-24  
A 50.55(e) Potentially Reportable Deficiency Relating to  
Limatorque Valve Operators Have Been Found Loose On Valve  
Bodies.  
File: 84-019-026; D.4.33.2

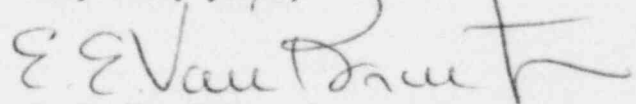
Reference: A) Telephone Conversation between P. Narbut and T. Bradish on  
May 1, 1984  
B) ANPP-29609, dated May 29, 1984 (Interim Report)

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 August 17, 1984.

Due to the extensive investigation and evaluation required, a revised  
Interim Report is attached. It is now expected that this information  
will be finalized by September 18, 1984, at which time a complete report  
will be submitted.

Very truly yours,



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

EEVB/TRB:nj  
Attachment

cc: See Page Two

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Mr. T. W. Bishop  
DER 84-24  
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cc: Richard DeYoung, Director  
Office of Inspection and Enforcement  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

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INTERIM REPORT - DER 84-24  
POTENTIAL REPORTABLE DEFICIENCY  
ARIZONA PUBLIC SERVICE COMPANY (APS)  
PVNGS UNIT 1

I. Potential Problem

There have been several instances of Combustion Engineering (CE) supplied Limitorque valve operators loosening from their Borg Warner valve bodies after the bolts securing them had been torqued and inspected. The following are the valves in question:

- 1) 1JSIAUV666
- 2) 1JSIVUV667
- 3) 1JSIBUV636
- 4) 1JSIAUV637
- 5) 1JSIBUV646
- 6) 1JSIAUV647
- 7) 1JSIAUV688

During the preoperational testing of the "SI" system, actuator problems such as low phase current readings, torque switch settings and stalled motors due to locked rotors had been encountered with SI system valve motors. These instances are documented in NCR SE-3994 and NCR SE-3967.

Per the suggested disposition of these NCRs, the original motors were replaced with new actuators supplied by CE. The work was implemented by Startup Work Authorization (SWA) #19752 for Items 1 and 2 and by SWA 19554 for Items 3, 4, 5, and 6. Subsequent to the motor changeout, it was discovered that the valve operators were loose on all seven valve bodies. SWA 19861 was issued to torque the operator to valve bolts on Items 1 and 2, and SWA 20030 was issued to torque the bolts on Item 7.

II. Approach To and Status Of Proposed Resolution

In response to Bechtel's request for possible cause and safety implication of this deficiency, Combustion Engineering has provided in Letter No. V-CE-30486 the guidelines to follow when torquing the yoke to motor operator connection bolts. As specified in the valve instruction manual, the valve stem has to be in the correct position for proper fastener torquing. Since it is indeterminate whether or not the valve stems were in the correct open position prior to torquing, NCR SM-4407 has been issued to retorque the bolts.

The interim disposition to NCR SM-4407 provides a resolution plan to the deficiency. The plan is to stroke each valve to full open, loosen the hex bolts, re-torque the hex bolts per vendor requirements, operate the valves several times and then check the bolt torque to ensure that the torque has not changed.

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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 September 18, 1984.