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AUTH.NAME AUTHOR AFFILIATION
VAN BRUNT,E.E. Arizona Public Service Co.
RECIP.NAME RECIPIENT AFFILIATION
KNIGHTON,G. Licensing Branch 3

SUBJECT: Forwards addl info on potential finding Repts 027,050 & 065, per SSER 5,(NUREG-0857),Section 17.7.3 re independent QA evaluation.

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Arizona Public Service Company
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February 6, 1984
ANPP-28797 - WFQ/KEJ

Director of Nuclear Reactor Regulation
Attention: Mr. George Knighton, Chief
Licensing Branch No. 3
Division of Licensing
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2 and 3
Docket Nos. STN-50-528/529/530
File: 84-056-026; G.1.01.10

Reference:
1. NUREG-0857, Supplement 5, "SER Related to the Operation of Palo Verde Nuclear Generating Station, Units 1, 2 and 3", dated November, 1983.
2. Letter from E. E. Van Brunt, Jr., APS, to G. W. Knighton, NRC, dated November 30, 1983 (ANPP-28318).
3. Letter from E. E. Van Brunt, Jr. APS, to G. W. Knighton, NRC, dated December 23, 1983. Subject: Schedule of Remaining SER Issues. (ANPP-28492).

Dear Mr. Knighton:

Section 17.7.3 of the Referenced (1) SER, stated that additional information concerning Potential Finding Report (PFR), 012, 027,050 and 065 was required to be submitted by the applicant in order for the staff to conclude their review of the APS independent quality assurance evaluation conducted by Torrey Pines Technology. Resolution of PFR-012 was submitted in Reference (2) and a schedule for resolution of PFR's 027, 050 and 065 was submitted in Reference (3).

Attached is APS' response to NRC's request for additional information on PFR's 027, 050 and 065.

If you have any questions concerning this matter, please contact me.

Very truly yours,

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

EEVB/KEJ/sp
Attachment

cc: E. A. Licitra (w/a)
A. C. Gehr "

B001
1/1

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

February 6, 1984
ANPP-28797 - WFQ/KEJ

I, Edwin E. Van Brunt, Jr., represent that I am Vice President, Nuclear, of Arizona Public Service Company, that the foregoing document has been signed by me on behalf of Arizona Public Service Company with full authority to do so, that I have read such document and know its contents, and that to the best of my knowledge and belief, the statements made therein are true.

Edwin E. Van Brunt

Edwin E. Van Brunt, Jr.

Sworn to before me this 6th day of February, 1984.

Nora E. Mendor
Notary Public

My Commission Expires:

My Commission Expires April 6, 1987

INDEPENDENT QUALITY ASSURANCE EVALUATION

PFR 027

One Finding (PFR 027) addressed the concern that, in the case of welds used for structural mountings of instrument panels and tubing supports, the Bechtel inspection system did not provide assurance that all welds would be properly inspected. The CAP prepared for this concern showed that a sample of the affected welds would be reinspected, and the applicable procedure(s) revised to prevent recurrence of the problem. In its evaluation of this CAP, TPT recommended that all affected welds be reinspected. The staff has requested the applicant to respond to this TPT recommendation. This matter will be discussed in a subsequent supplement to the SER after the applicant has responded.

RESPONSE

Documentation was reviewed to identify those instrument installations which involved welding. A sample of approximately 10% of the instruments were reinspected and the welds were found to be acceptable. The results of the reinspections provide adequate confidence that all affected welds are acceptable; therefore, additional reinspection is not warranted.

SSER 5 Section 17.7.3 Task D

PFR 050

One Finding (PFR 050) pointed out a deficiency in the design interface between CE and Bechtel in that the containment spray pump support structure stiffness or frequency was not properly specified. In its review, TPT determined that the range of critical frequencies of the pump-support combination was lower than and close to the pump operating speed. Thus, inadequate separation between the critical frequency and the pump operating speed might result in an undesirable resonance.

The CAP prepared for PFR 050 included validating the frequency analysis of the pump/support combined response, or performing vibration testing during pump startup. TPT stated that, since the safety injection pumps were supplied to a generic specification by the same vendor who provided the containment spray pump, TPT recommended that the safety injection pumps be evaluated in a similar manner. TPT pointed out, however, that regardless of the results of such a review, any adverse vibration associated with these pumps would be detected and corrected during normal startup testing. The staff has requested the applicant to respond to this TPT recommendation. This matter will be discussed in a subsequent supplement to the SER after the applicant has responded.

RESPONSE

Vibration testing of the safety injection pumps and containment spray pumps was performed during startup testing. The measured amplitude is included in the test data records and satisfies the specified acceptance criteria.

PFR 065

Another Finding (PFR 065) concerned a CE design specificaion which was released without the required internal interface design review. The CAP prepared for this issue showed that steps would be taken to identify and correct any similar problems and to prevent recurrence. Since the CAP did not explicitly state that the interface review would be performed, TPT recommended that it be done. The staff has requested the applicant to respond to this TPT recommendation. This matter will be discussed in a subsequent supplement to the SER after the applicant has responded.

RESPONSE

The required internal interface reviews of the subject CE design specification have been performed. Completion of the interface reviews is indicated by signature on the cover page of the specification.