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STN-50-530 Palo Verde Nuclear Station, Unit 3, Arizona Publi 05000530
AUTH.NAME AUTHOR AFFILIATION
VAN BRUNT,E.E. Arizona Public Service Co.
RECIP.NAME RECIPIENT AFFILIATION
KNIGHTON,G.W. Licensing Branch 3

SUBJECT: Forwards analysis of change to design of main pressurizer spray line that deleted internal from Check Valve RC-V-244, per request.Mod does not impact auxiliary pressurizer spray capability.W/o encl.

DISTRIBUTION CODE: B001D COPIES RECEIVED:LTR 1 ENCL 0 SIZE: 2
TITLE: Licensing Submittal: PSAR/FSAR Amdts & Related Correspondence

NOTES:Standardized plant. 05000528
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Arizona Public Service Company

ANPP-31549-EEVB/WFQ
December 21, 1984

Director of Nuclear Reactor Regulation
Mr. George W. 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
Auxiliary Pressurizer Spray System (APSS)
File: 84-056-026; G.1.01.10

References:
(A) Letter to G. W. Knighton, NRC, from E. E. Van Brunt, Jr., APS, dated December 14, 1984 (ANPP-31481); Subject: RCS Main Pressurizer Spray Modification.
(B) Letter to G. W. Knighton, NRC, from E. E. Van Brunt, Jr., APS, dated August 7, 1984 (ANPP-30141); Subject: PVNGS Test Program.
(C) Letter to G. W. Knighton, NRC, from E. E. Van Brunt, Jr., APS, dated September 27, 1984 (ANPP-30678); Subject: Natural Circulation Test Procedure.

Dear Mr. Knighton:

Reference (A) identified a change to the design of the main pressurizer spray line that deleted the internals from check valve RC-V-244. As indicated in Reference (A), analysis indicates that this modification does not impact auxiliary pressurizer spray capability. Accordingly, PVNGS meet the requirements of 10 CFR 50 and 10 CFR 100 as well as BTP RSB 5-1 (which includes 10 CFR 50, Appendix A, GDC 19 and 34). As requested by your staff, the analysis is enclosed for your information.

Reference (A) also stated that a test of depressurization capability would be performed during post core hot functional testing. Based upon discussions with your staff, it is essential that this demonstration testing be performed under a variety of conditions that would model the expected performance range. As the most important feature of this testing is natural circulation conditions, it would be more appropriate to perform this testing after there is sufficient decay heat to induce natural circulation. Therefore, the natural circulation testing described in References (B) and (C) will be modified to specify that the main spray valves will be positioned fully opened to demonstrate adequate depressurization capability of the APSS. This testing currently includes the broad range of parameter variations (pressure, temperature, voiding, letdown) that your staff feels should be included in the confirmatory testing to verify the enclosed analysis. APS will submit the revised procedure which incorporates the open main spray valve to you by January 31, 1985.

B001
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As noted in Reference (A), your staff is welcomed to witness this testing. Test results will be submitted to you upon completion of the testing. If you have any questions, please contact Mr. William Quinn of my staff.

Very truly yours,

E. E. Van Brunt

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

EEVB/TFQ/mb

cc: E. A. Licitra
A. C. Gehr
R. P. Zimmerman

STATE OF ARIZONA)
) ss.
COUNTY OF MARICOPA)

I, Edwin E. Van Brunt, Jr., represent that I am Vice President, Nuclear Production 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 21 day of December, 1984.

Nora E. Meador

Notary Public

My Commission Expires:
My Commission Expires April 6, 1987