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SUBJECT: Forwards summary of resolutions reached re piping &
 verification test, per License Condition 2.C.9. Test
 73HF-1ZZ11 deleted from procedure & test results approved on
 861113.

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June 24, 1987
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U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Washington, D.C. 20555

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 1
Docket No STN 50-528 (License NPF-41)
PVNGS Unit 1 Piping Verification Test Summary Supplement
File: 87-B-056-026; 87-136-419

Reference: Letter from E. E. Van Brunt, Jr., ANPP, to G. W. Knighton, NRC, dated April 18, 1986 (ANPP-36295). Subject: PVNGS Unit 1 Piping Verification Test Summary.

Dear Sir:

In the above referenced letter, ANPP submitted the Piping Verification Test Summary for Unit 1 in accordance with License Condition 2.C.9 of License NPF-41. The test summary discussed two test items that were outstanding. Attached, please find a summary of their resolutions. With these resolutions, the PVNGS Unit 1 piping verification program is complete.

If you have any further questions, please contact Mr. W. F. Quinn of my staff.

Very truly yours,

J. G. Haynes
Vice President
Nuclear Production

JGH/JKR/rw

cc: O. M. De Michele
E. E. Van Brunt, Jr.
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At the time of submittal of the piping verification test summary for PVNGS Unit 1, two test items remained outstanding as discussed in the conclusion to the summary. The following is a description of the outstanding test items and their resolution.

A. Testing of the Auxiliary Steam Piping to the Seal Injection Heat Exchanger.

Test summary section: 2.7.2.1, piping verification pre-core carryover test, 73HF-1ZZ11.

Resolution: After several additional unsuccessful attempts were made to supply auxiliary steam to the seal injection heat exchanger, engineering evaluation report 86-AS-20 determined that the specified line up was not considered a normal plant configuration and did not fall under the requirements of the piping verification program. The testing requirement has been deleted from the procedure and the test results were approved on 11-13-86.

B. Main Feedwater Pipe Whip Restraints

Test summary section: 2.7.3.4, pipe whip restraints thermal expansion measurements, 73PA-1ZZ09.

Resolution: The identified restraints that did not meet the acceptance criteria, as identified in the test summary, were reworked during the March, 1986 outage. During the return to power, additional rework was required in an effort to achieve the required design gaps. Due to the nonrepeatability of the system thermal expansion within the desired envelope, the achieved pipe whip restraint gaps have still not met the acceptance criteria but are acceptable for continued power operation as documented on engineering evaluation report 86-SG-105. Based on the above, the design gaps have been increased as documented by calculations in design change package 10C-ZC-191, which will require some minor shim modifications to the restraints but no additional gap verification. Thus, with the gaps being conditionally acceptable as installed and no further monitoring required after the rework, the intent of the procedure has been met and the test results have been approved on May 21, 1987.

With the above outlined exceptions resolved, the PVNGS Unit 1 piping verification program is complete and has met all the applicable regulatory requirements.

