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SUBJECT: Forwards summary of results of Unit 2 shutdown outside the control room test.

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 TITLE: Startup Report/Refueling Report (per Tech Specs)

NOTES:Standardized plant.

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## Arizona Nuclear Power Project

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161-01172-DBK/PGN  
July 15, 1988

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U.S. Nuclear Regulatory Commission  
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Reference: Letter from J. G. Haynes (ANPP) to NRC,  
dated 3/13/87 (161-00075)  
Subject: Unit 2 Startup Report Supplement 1

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)  
Unit 2  
Shutdown from Outside the Control Room Test  
File: 88-001-404; 88-F-056-026

Attached please find a summary of the results of the Unit 2 Shutdown from Outside the Control Room Test. This test was originally reported as Section 6.15 of the PVNGS Unit 2 Startup Report and was open at the time the referenced supplement was submitted. Supplement 1 committed to submitting a summary of the results upon completion of this test.

If you have any questions or require additional information, please call A. C. Rogers at (602) 371-4041.

Very truly yours,

*D.B. Karner* / *ssw/8*

D. B. Karner  
Executive Vice President  
Project Director

DBK/PGN/pvk  
Attachment

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## ATTACHMENT

### SHUTDOWN FROM OUTSIDE THE CONTROL ROOM TEST RESULTS (CESSAR SECTION 14.2.12.5.8)

#### TEST OBJECTIVES AND SUMMARY

The objective of 73PA-2SF02 "Shutdown Outside Control Room (20% Power) was to demonstrate the reactor can be tripped from outside the Control Room and the plant maintained in hot standby conditions for at least 30 minutes from outside the Control Room, utilizing only Train B equipment and the minimum shift personnel required by Technical Specifications.

The acceptance criterion for this test was to perform a safe shutdown of the plant from outside the control room and maintain selected plant parameters within a specified range for at least 30 minutes using equipment that would normally be available only at the remote shutdown panel. All applicable acceptance criteria were met, showing that a safe shutdown could be conducted and the plant stabilized in hot standby conditions from outside the control room.

#### TEST DESCRIPTION

The test is performed by utilizing a normal operating crew and a standby crew. The standby crew serves as control room observers and are to take action only if a problem that involves plant safety develops. The operating crew consists of the minimum shift complement as defined in Table 6.2-1 of the PVNGS Technical Specifications. The test was performed on February 20, 1988 while the plant was operating at 20% of rated power.

The operating crew performed the test by evacuating the Control Room and proceeding to the remote shutdown panel. The operating crew initiated and verified the reactor trip from outside the Control Room. The reactor trip was initiated by an operator at the Reactor Trip Switchgear. After the trip the operating crew established control of the plant utilizing Train B equipment and the Remote Shutdown Panel. The plant was maintained in hot standby for 30 minutes by the operating crew. Control of the plant was then transferred to the standby crew in the Control Room and the Remote Shutdown Panel secured.

SHUTDOWN FROM OUTSIDE THE CONTROL ROOM TEST RESULTS ATTACHMENT  
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TEST RESULTS

Below is a comparison of test acceptance criteria parameters and actual variations observed during the performance of the test.

	<u>Acceptance Criteria</u>	<u>Observed Values</u>
Pressurizer Pressure	2150 - 2275 psia	2166 - 2265 psia
T <sub>H</sub>	550°F - 569°F	566°F - 567°F
Pressurizer Level	Greater than 26%	30% - 36%
Steam Generator Pressure	1120 - 1220 psia	1162 - 1176 psia
Steam Generator Level	Greater than 35% WR	#1 47-75% (WR) #2 50-78% (WR)

As shown by the above parameters and a review of the test data the plant was maintained in a stable hot standby condition with adequate pressure and temperature control of the RCS and SG's from the Remote Shutdown Panel utilizing Train B equipment.

The test results are adequate to demonstrate conformance to the acceptance criteria provided in Regulatory Guide 1.68.2, Revision 1 and CESSAR Section 14.2.12.5.8.

CONCLUSION

This test demonstrated the ability of the minimum shift crew to trip the reactor from outside the Control Room and maintain the plant in a stable hot standby condition utilizing Train B components and the Remote Shutdown Panel. It further verified that the procedure 42AO-2ZZ27 "Abnormal Operating Procedure-Shutdown Outside Control Room" provides adequate guidance for control of the plant from the Remote Shutdown Panel.