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 FACIL:STN-50-528 Palo Verde Nuclear Station, Unit 1, Arizona Publ 05000528
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 VAN BRUNT,E.E. Arizona Nuclear Power Project (formerly Arizona Public Serv
 RECIP.NAME RECIPIENT AFFILIATION
 KNIGHTON,G.W. Licensing Branch 3

SUBJECT: Documents actions to resolve NRC concerns re natural
 circulation testing program. Testing capability to cool down
 plant from hot standby to cold shutdown under natural
 circulation will be demonstrated.

DISTRIBUTION CODE: A052D COPIES RECEIVED: LTR 1 ENCL 0 SIZE: 2
 TITLE: OR Submittal: Natural Circ Cooldown GL 81-21 Multiplant Action B-66

NOTES: Standardized plant.
 OL: 12/31/84

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Arizona Nuclear Power Project

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

August 29, 1985
ANPP-33282-EEVB/BJA

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 1
Docket No. STN 50-528, License No. NPF-41
PVNGS Unit 1 Natural Circulation Testing Program
File: 85-056-026; G.1.01.10

- References:
- (1) Letter from E. E. Van Brunt, Jr., ANPP, to G. W. Knighton, NRC, dated January 31, 1985 (ANPP-31829). Subject: Natural Circulation Cooldown Testing.
 - (2) ANPP meeting with the NRC Staff on June 27, 1985, at Bethesda, MD. Subject: PVNGS Natural Circulation Cooldown Testing.
 - (3) Telecon of July 10, 1985 with E. A. Licitra and C. Liang of the NRC Staff. Subject: PVNGS Natural Circulation Cooldown Testing.

Dear Mr. Knighton:

ANPP held a meeting with the NRC Staff on June 27, 1985 to discuss the PVNGS Unit 1 Natural Circulation Testing Program. The NRC Staff raised several questions during this meeting which were discussed in the telecon of Reference (3). The purpose of this submittal is to formally document the actions that ANPP has taken to resolve the NRC concerns.

ANPP has revised the Natural Circulation Cooldown Test Procedure which has been submitted previously by Reference (1). The following changes have been made to the procedure. It should be noted that these changes were discussed during the telecon of Reference (3).

- i) The procedure has been modified to assume a single failure (i.e., failure of one of the emergency diesel generators). Only one train of safety related equipment will be used during the test.
- ii) The letdown portion of the Chemical and Volume Control System will be secured during the portion of the depressurization where the auxiliary pressurizer spray system is utilized.
- iii) The pressurizer heaters will not be utilized during the test. However, the pressurizer heaters will be available for use during the test.
- iv) Only two of the three charging pumps will be used during the test. However, the third charging pump will be available for use during the test.

ANPP will demonstrate by testing the capability to cooldown the plant under natural circulation conditions from hot standby conditions to cold shutdown conditions.

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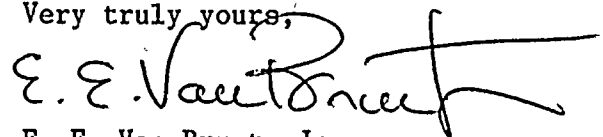
The demonstration will be conducted by one of the following two methods:

- i) A single test that conducts a Natural Circulation Cooldown from hot standby to cold shutdown conditions.
- ii) Two separate tests: The first test will perform a Natural Circulation Cooldown from hot standby to shutdown cooling initiation conditions. The second test will demonstrate the capability to cooldown the plant from shutdown cooling initiation conditions to cold shutdown.

Additionally, data from the Natural Circulation Cooldown Test will be used to verify the effectiveness of the auxiliary pressurizer spray system for the Steam Generator Tube Rupture Event.

If you have any additional questions on this matter, please contact Mr. W. F. Quinn of my staff.

Very truly yours,



E. E. Van Brunt, Jr.
Executive Vice President
Project Director

EEVB/BJA/slh

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

