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 STN-50-529 Palo Verde Nuclear Station, Unit 2, Arizona Publi 05000529  
 STN-50-530 Palo Verde Nuclear Station, Unit 3, Arizona Publi 05000530  
 AUTH.NAME AUTHUR AFFILIATION  
 VAN BRUNT,E.E. Arizona Public Service Co.  
 RECIP.NAME RECIPIENT AFFILIATION  
 NOVAK,T.M. Assistant Director for Licensing

SUBJECT: Revises util 810818 response to Open Item 50 of 810408  
 auxiliary sys independent review.Emergency Cooling Water  
 Sys adequately designed.Tube break need not be considered as,  
 basic design event.

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NOTES:Standardized plant. 05000528  
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1. The first step is to identify the problem. This involves understanding the situation and the needs of the people involved. It is important to listen to all sides and to understand the underlying causes of the problem.

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Arizona Public Service Company

P.O. BOX 21666 • PHOENIX, ARIZONA 85036

November 8, 1982  
ANPP-22232 - WFQ/KEJ

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Mr. T. H. Novak  
Assistant Director for Licensing  
Division of Licensing  
Office of Nuclear Reactor Regulation  
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: 82-056-026; G.1.01.10

Reference: Letter from E. E. Van Brunt, Jr., APS, to Director  
of Nuclear Reactor Regulation, NRC, dated August 18, 1981.  
(ANPP-18690)

Dear Mr. Novak:

The referenced letter forwarded final responses to open items of the Auxiliary Systems Independent Design Review for PVNGS held in Phoenix, Arizona on April 8, 1981.

The resolution of item 50 stated that the ECWS pressure relieving capacity would accommodate a double-ended guillotine break of one shutdown cooling heat exchanger tube. This letter provides a revision to that response.

The relief valves in the ECWS are sized for thermal relief only, with additional relieving capacity provided at the surge tank. The relieving capacity is less than the in-leakage from the tube break.

An evaluation on the system was made to determine if additional relieving capacity to the ECWS was needed to mitigate the effects of a tube break of one shutdown cooling heat exchanger tube. The evaluation concluded that the system is adequately designed and recommended that no design changes be implemented. This conclusion is based on A) a tube break is not believed to be coincidental with a single active failure, therefore, the break need not be considered as a basic design event, B) there are two independent redundant trains for the ECWS, each train has adequate cooling capacity for safe plant shutdown in the event of failure of the other train.

Boo1






Mr. T. H. Novak  
November 8, 1982  
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We feel that the above discussion resolves the concerns of item #50 addressed in the referenced letter.

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

Very truly yours,



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

EEVBJr/KEJ/sp

cc: E. Licitra  
L. Bernabei  
P. Hourihan  
J. Vermiel  
A. C. Gehr

