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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: AUTHOR AFFILIATION  
 VAN BRUNT, E.E. Arizona Public Service Co.  
 RECIP NAME: RECIPIENT AFFILIATION  
 KNIGHTON, G. Licensing Branch 3

SUBJECT: Advises that fuel sys complies w/requirements of NUREG-0852,  
 "SER re Final Design of Std Nuclear Steam Supply Ref Sys  
 CESSAR Sys 80," Suppl 1.

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August 16, 1983  
ANPP-27582 - WFQ/TFQ

Director of Nuclear Reactor Regulation  
Attention: Mr. George 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  
File: 83-056-026; G.1.01.10

Reference: NUREG-0852, "Safety Evaluation Report related to the Final Design of the Standard Nuclear Steam Supply Reference System CESSAR System 80", Supplement No. 1, dated March, 1983.

Dear Mr. Knighton:

In regard to fuel rod mechanical fracture analysis, the referenced document stated:

"Applicants referencing CESSAR must certify that this analysis for their fuel system conforms to the acceptance criteria given in Section 4.2.1.2(g)."

NUREG-0852, Supplement No. 1, Section 4.2.1.2(g) states:

"Mechanical fracturing of a fuel rod could potentially arise from an externally applied force such as hydraulic load or a load derived from core-plate motion. To preclude such failure, CE stated in a letter dated January 11, 1982, that rod fracture stress limits shall be in accordance with the criteria given in Table 9-1 of CENPD-178, Revision 1 (August 21, 1981), "Structural Analysis of Fuel Assemblies for Combined Seismic and Loss-of-Coolant Accident Loading."

The review of CENPD-178, Revision 1 and the criteria given in Table 9-1 have been completed and found acceptable. Consequently, this issue is resolved.

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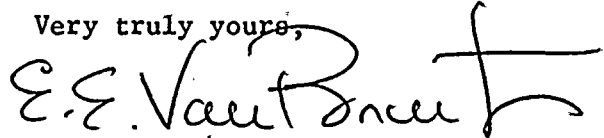


Mr. G. W. Knighton  
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PVNGS FSAR Section 4.2.3.1.4 provides the results of the Structural analysis of PVNGS fuel assemblies for combined Seismic and LOCA loading. The results indicate that the allowable stresses indicated in CENPD-178, Revision 1, were not exceeded. This certifies that the analysis for the PVNGS fuel system conforms to the criteria given in NUREG-0852, Supplement 1, Section 4.2.1.2(g).

Please contact me if you have any questions on this matter.

Very truly yours,



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

EEVB/TFQ/sp

cc: E. A. Licitra  
A. C. Gehr

