

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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 Document Control Branch (Document Control Desk)

SUBJECT: Advises that parts to perform switch mod (TSM) cannot be obtained to support work at first refueling outage due to procurement difficulties. Encl revised FSAR deletes commitment associated w/TSM at first refueling outage.

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NOTES: Standardized plant.

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Arizona Nuclear Power Project

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Docket No. STN 50-528

October 15, 1987
161-00589-JGH/BJA

U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Document Control Desk

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Unit 1
Docket No. STN 50-528 (License No. NPF-41)
Transfer Switch Modification for PVNGS Unit 1
File: 87-E-056-026; 87-A-005-419.05

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As described in FSAR Section 8.3.1.1.6, the 120 VAC vital instrument buses normally receive power from the 125 VDC buses through inverters. In the event that an inverter or DC bus is inoperable or is removed from service for maintenance, the associated vital instrument bus can be powered from a backup power supply which consists of a 480/120 VAC regulating transformer. A transfer switch is provided to change between the alternate power supplies for the vital instrument buses. In Units 2 and 3, these transfer switches are automatic static transfer switches, and manual transfer switches are installed in Unit 1. Both of these transfer switch designs meet the applicable regulatory criteria.

FSAR Section 8.3.1.1.6 states that the Unit 1 manual transfer switches will be replaced with static transfer switches at the first refueling outage. Due to procurement difficulties, the parts to perform the transfer switch modification cannot be obtained to support this work at the first refueling outage. The parts procurement problems are a direct result of an on-going ANPP investigation of the vendor's quality program. Due to these difficulties, ANPP has revised the PVNGS FSAR (in accordance with the provisions of 10 CFR 50.59) to delete the commitment associated with the transfer switch modification at the first refueling outage. A copy of the revised FSAR Section 8.3.1.1.6 is attached for your information. It should be noted that ANPP still intends to install the automatic static transfer switches in Unit 1 in the future. However, a schedule for this modification cannot be provided at this time due to the uncertainty involved in the current parts procurement difficulties.

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

Very truly yours,

J. G. Haynes / *swg*

J. G. Haynes
Vice President
Nuclear Production

Pool

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Attachment

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ONSITE POWER SYSTEMS

8.3.1.1.5 Control Element Drive Mechanism Power Supply

Electric power to control element drive mechanisms is supplied by two motor-generator sets operating from two separate Non-Class IE 480V load centers.

8.3.1.1.6 Vital Instrumentation and Control Power Supply

Four independent Class IE 120V vital instrumentation and control ac power supplies are provided to supply the four channels of the reactor protection and ESF actuation systems (see figure 8.3-4). The power supplies are designed to regulate the steady-state voltage within $\pm 2\%$ at full power output for a load power factor of 0.8 at a frequency of 60 ± 0.5 Hz. The four-bus arrangement provides single-phase, ungrounded, electric power to each of the four protection channels of the reactor protection system that is electrically and physically isolated from the other protection channels. Each vital ac instrumentation and control power supply consists of one inverter rated at 25 kVA, a transfer switch, a backup voltage regulator, and one distribution panel. Currently PVNGS Units 2 and 3 have installed an automatic static transfer switch and PVNGS Unit 1 utilizes a manual transfer switch, but it will be replaced with the automatic static transfer switch prior to restart following the first refueling outage. Normally, each distribution panel is supplied by the inverter. Each inverter is supplied by a separate Class IE 125V dc subsystem as described in section 8.3.2. If an inverter is inoperable or its output is outside the acceptable operating range or it is to be removed from service for maintenance or testing, a backup supply is provided from a separate Class IE regulated power supply through the transfer switch. Busing arrangements are shown in figure 8.3-4 and system loads are listed in table 8.3-4.

