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SUBJECT: Responds to request for addl info re GL 95-07, "Pressure Locking and Thermal Binding of Safety-Related Power-Operated Gate Valves."

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MA-4

Arizona Public Service
PALO VERDE NUCLEAR GENERATING STATION
P.O. BOX 52034 PHOENIX, ARIZONA 85072-2034

102-03725-WLS/AKK/RJR
June 28, 1996

WILLIAM L. STEWART
EXECUTIVE VICE PRESIDENT
NUCLEAR

U.S. Nuclear Regulatory Commission
ATTN: Document Control Desk
Mail Station P1-37
Washington, DC 20555-0001

Reference: Letter 102-03608, dated February 21, 1996, "180-Day Response to NRC Generic Letter No. 95-07," from W. L. Stewart, APS, to USNRC,

Dear Sirs:

Subject: Palo Verde Nuclear Generating Station (PVNGS)
Units 1, 2, and 3
Docket Nos. STN 50-528/529/530
NRC Generic Letter No. 95-07, 180-Day Response
Additional Information

In the above referenced letter, Arizona Public Service Company (APS) committed to providing a schedule for implementation of the remaining pressure locking and thermal binding modifications. This schedule is enclosed and completes APS' response to NRC Generic Letter (GL) 95-07, "Pressure Locking and Thermal Binding of Safety-Related Power-Operated Gate Valves," dated August 17, 1995.

Should you have any questions, please contact Scott A. Bauer at (602) 393-5978.

Sincerely,

WLS/AKK/RJR/rv

Enclosure

cc: L. J. Callan
K. E. Perkins
J. W. Clifford
K. E. Johnston

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ENCLOSURE

ARIZONA PUBLIC SERVICE COMPANY

SCHEDULE FOR IMPLEMENTATION OF THE

REMAINING PRESSURE LOCKING AND

THERMAL BINDING MODIFICATIONS

The following table identifies the completed and pending modifications for the valves identified as susceptible to pressure locking. In this table, 1R7 indicates that the modification is scheduled to be completed in the 7th refueling outage for Unit 1. Also included is a table showing the current start dates for the identified refueling outages and a table identifying the valves by name.

	Implementation Schedule		
Valve No.	Unit 1	Unit 2	Unit 3
AF-34	1R7	2R7	3R6
AF-35	1R7	2R7	3R6
AF-36	1R7	2R7	3R7
AF-37	1R7	2R7	3R7
SG-134	1R8	2R8	3R7
SG-138	1R8	2R8	3R7
SI-651*	1R6	Completed	Completed
SI-652*	1R6	Completed	Completed
SI-653*	1R6	Completed	Completed
SI-654*	1R7	2R7	3R6
SI-655	1R8	2R8	3R7
SI-656	1R7	2R7	3R6
SI-672	1R8	2R8	3R7
SI-671	1R7	2R7	3R6
SI-685	1R8	2R8	3R7
SI-694	1R7	2R7	3R8
SI-686	1R8	2R8	3R7
SI-696	1R7	2R7	3R8
SI-688	1R8	2R8	3R7
SI-693	1R7	2R7	3R8

* These valves are also susceptible to thermal binding. Procedural controls for these valves were implemented to eliminate susceptibility to thermal binding.

In Reference 1, SI-604 and SI-609 were identified as being susceptible to pressure locking. This susceptibility has been eliminated by limiting the maximum unwedging loads for these valves and no hardware modifications are required.

CURRENT ESTIMATED OUTAGE START DATES							
1R6	3R6	2R7	1R7	3R7	2R8	1R8	3R8
9/96	2/97	9/97	3/98	9/98	3/99	9/99	3/00

	Valve Name
AF-34/35	Auxiliary Feedwater Pump Discharge
AF-36/37	Auxiliary Feedwater Pump Discharge
SG-134/138	Auxiliary Feedwater Pump Turbine Steam Supply
SI-604/609	High Pressure Safety Injection Pump Discharge Long Term Loop Recirculation
SI-651/652	Low Pressure Safety Injection Pump Suction (Shutdown Cooling)
SI-653/654	Low Pressure Safety Injection Pump Suction (Shutdown Cooling)
SI-655/656	Low Pressure Safety Injection Pump Suction (Shutdown Cooling)
SI-671/672	Containment Spray Header Isolation
SI-685/694	Low Pressure Safety Injection Containment Spray to Shutdown Cooling Heat Exchanger Cross-Tie
SI-686/696	Shutdown Cooling Heat Exchanger Outlet to RCS
SI-688/693	Containment Spray Shutdown Cooling Heat Exchanger Bypass