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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

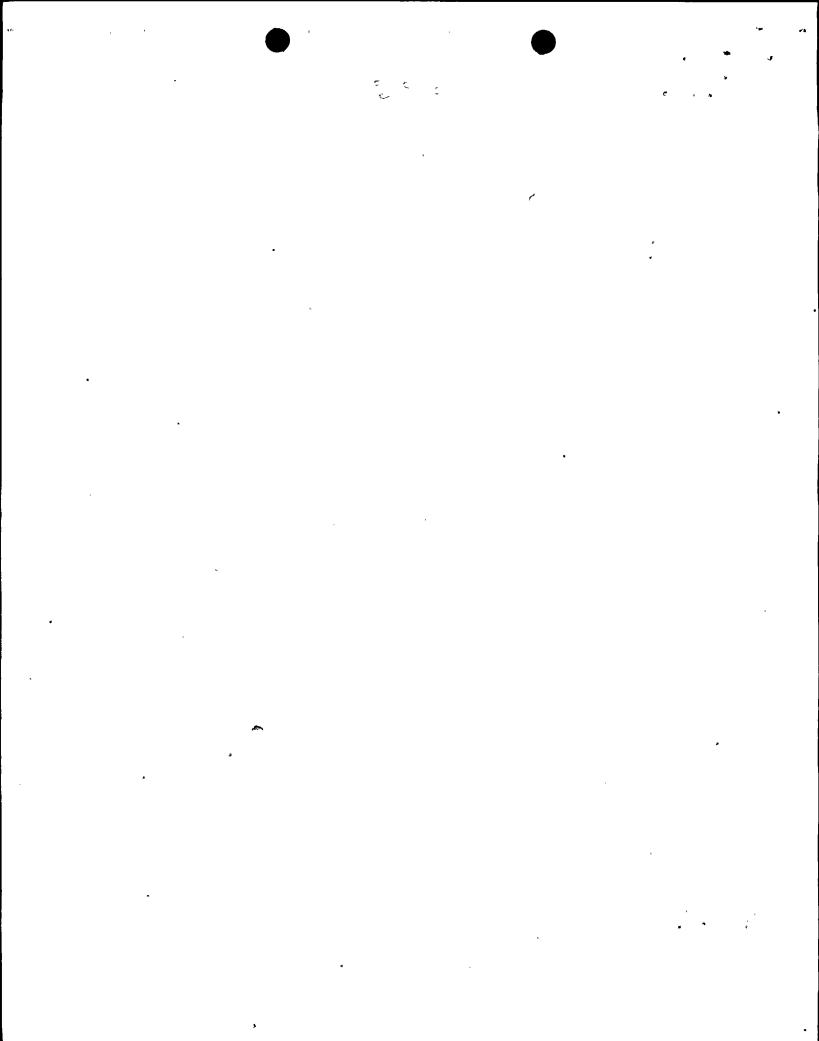
Enclosure

cc: L. J. Callan

K. E. Perkins

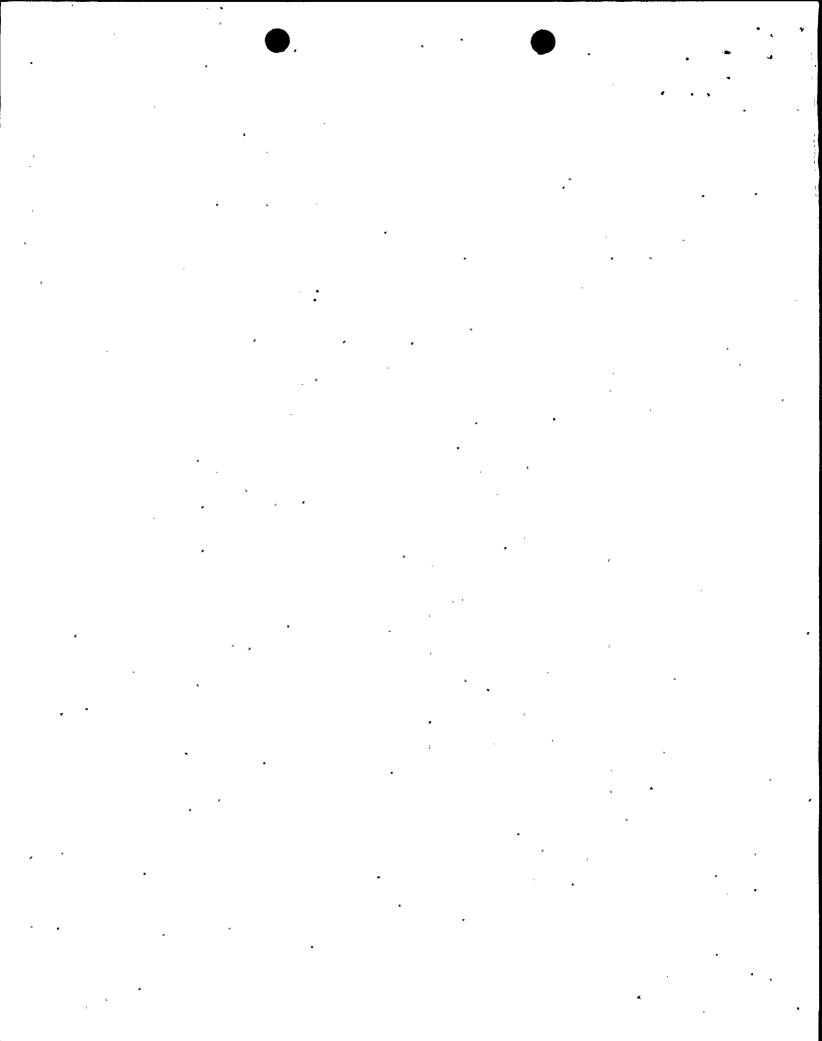
J. W. Clifford

K. E. Johnston



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.

	CUI	RRENT ES	TIMATED	OUTAGE ST	TART DATE	S	
1R6	3R6	2R7	1R7	3R7	2R8	1R8	3R8
9/96	2/97	9/97	3/98	9/98	3/99	9/99	3/00

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	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

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