



Portland General Electric Company

Bart D. Withers Vice President

February 13, 1986

Trojan Nuclear Plant
Docket 50-344
License NPF-1

Director of Nuclear Reactor Regulation
ATTN: Mr. Steven A. Varga
Director, PWR-A
Project Directorate No. 3
U.S. Nuclear Regulatory Commission
Washington DC 20555

Dear Mr. Varga:

Request for Additional Information
NUREG-0737, Item II.D.1

Reference: PGE (B. D. Withers) to NRC (S. A. Varga) Letter
Dated December 31, 1985

In the referenced letter, it was stated that additional information regarding pressurizer safety valve upper ring level position was being sought from Crosby Valve and Gage Company in response to Question 9. The information is attached. In addition, a review by Crosby of their records shows the attached ring setting information to be correct, superseding the previously reported data.

If you have any questions, please advise.

Sincerely,

CP Withers
Bart D. Withers for
Vice President
Nuclear

Attachment

c: Regional Administrator, Region V
U.S. Nuclear Regulatory Commission
Office of Executive Director for
Operations
1450 Maria Lane, Suite 210
Walnut Creek CA 94596

Mr. Lynn Frank, Director
State of Oregon
Department of Energy

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PDR ALOCK 05000344
P PDR

ADD: PWR - A/BC's TECH SUPPORT

AD - J. KNIGHT (ltr only)
EB (BALLARD)
EICSB (ROSA)
PSB (GAMMILL)
RSB (BERLINGER)
FOB (BENAROYA)

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ADDITIONAL INFORMATION REGARDING SAFETY VALVE RING SETTINGS

The Trojan pressurizer safety valve ring setting information is listed in Table 1.

The safety valve ring settings remain those that were as shipped from Crosby. The EPRI testing gave positions of the two adjusting rings in terms of notches relative to the level position. However, the field settings as shipped by Crosby are given in terms of notches relative to the highest-locked position. For the lower ring, the highest-locked position coincides with the level position. However, for the upper ring, the level position and highest-locked position are not the same. Column 3 of Table 1 details the relationship between the level and highest-locked positions for the upper ring. By subtracting Column 3 from the upper ring setting in Column 2, the upper ring setting in notches relative to the level position is obtained, and this is shown in Column 4.

The ring settings for the valves supplied by Crosby to Westinghouse for Portland General Electric Company were established by the same methods as the "as stamped" final ring settings for the 6M6 safety valve tested at EPRI.

These methods include the performance of a steam operational test on each and every 6M6 Style HB pressurizer safety valve to determine the best suited ring setting to assure proper and stable valve performance. The final "as shipped" ring settings will vary between valves as a result of these tests to compensate for slight variations in valve internal dimensions and other factors which are critical to valve performance. The Model 6M6 valve (used at Trojan) is known to have rings that require a large adjustment in notches to make any difference in valve performance. A change of 10-20 notches in ring position was noted by Crosby as having little effect on valve performance.

Comparison should be based only on those EPRI tests performed with final "as shipped" ring settings which are the following:

900 Series tests - Test Number 929, 931, and 932
1400 Series tests - All tests

The 900 Series tests performed with the lowered ring positions are not representative of present field ring settings.

Based on the above and providing the cumulative acoustic and steady-state pressure drop is less than that experienced during the EPRI tests, Crosby believes the present ring settings would result in valve performance similar to that experienced during the EPRI tests.

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PGE-1039 contains information that the Trojan pressure drops were less than that experienced during the EPRI tests, therefore, the valves should perform acceptably.

TABLE 1

COLUMN 1	COLUMN 2		COLUMN 3	COLUMN 4
<u>Trojan Safety Valve Number</u>	As Shipped Valve Ring Settings, Notches Relative to Highest- Locked Position		Upper Ring Level Position, Notches Relative to Highest-Locked Position	Upper Ring Setting, Notches Relative to Level Position
	<u>Upper</u>	<u>Lower</u>		
PSV-8010A	-275	-18	-148	-127
PSV-8010B	-275	-18	-158	-117
PSV-8010C	-285	-18	-167	-118