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Babcock & Wilcox

Power Generation Group

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December 17, 1979

The Office of the Director of Inspection  
and Enforcement  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Attention: Mr. E. B. Blackwood

Gentlemen:

Pursuant with the requirements of 10 CFR 21, this written report is a follow-up of a verbal report made at 1:50 PM, December 14, 1979, to Mr. E. B. Blackwood by telecon concerning defects in a core flood system isolation valve and possible defects in six (6) decay heat removal isolation valves supplied to Washington Public Power Supply Systems. The report was made for Mr. J. H. MacMillan, Vice-President, Nuclear Power Generation Division, Babcock & Wilcox Company, Old Forest Road, P. O. Box 1260, Lynchburg, Virginia 24505, by D. Mars and T. L. Baldwin of the Company's Licensing Section. Mr. MacMillan was informed of this reportable concern at 8:20 AM, December 14, 1979.

The report was of two visual linear defects discovered by the manufacturer inside the body of a core flooding system isolation valve, 4CF-V1A supplied to Washington Public Power Supply System by the WKM Division of ACF Industries, Houston, Texas, under B&W Company contract number 620-0032 for unit WNP 4. This valve had been returned to WKM by WPPSS at our direction for rework of an internal relief valve. The report is made under 10 CFR 21 of a defect in a basic component used to "mitigate the consequences of accidents which could result in potential offsite exposures."

Additionally, the report covers unacceptable indications in six (6) decay heat removal system isolation valves found by WPPSS by the ASME Section XI preservice baseline inspection. These indications were noted by visual inspection and/or penetrant tests in the inlet and outlet conduits of the following isolation valves:

<u>Unit WNP 1</u>	<u>Unit WNP 4</u>
4H - V12A	4 DH - V11A
4H - V12B	4 DH - V11B
	4 DH - V12A
	4 DH - V12B

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These indications are being reported under 10 CFR 21 as possible defects in basic components designed "to assure the integrity of the reactor coolant pressure boundary". These valves were also supplied to WPPSS by WKM Division of ACF Industries, Houston, Texas under B&W Company contracts 620-0023 and 620-0032.

No WKM valves have been supplied by Babcock & Wilcox Company to any of our Operating Plants. B&W has supplied 48 valves manufactured by WKM for backlog contracts. They are:

- 2 decay heat cooler outlet control valves for Power - Authority of the State of New York under contract 620-0031
- 4 decay heat cooler outlet control valves for TVA under contract 620-0013 and 620-0016 - Bellefonte Units 1 and 2
- 12 isolation valves and 2 decay heat cooler control valves for Portland General Electric, under contracts 620-0024 and 620-0030 for Pebble Springs 1 and 2
- 24 isolation valves and 4 decay heat cooler outlet control valves supplied to WPPSS on contract 620-0023 and 620-0032 for WNP 1 & 2.

All customers who are being supplied WKM valves have been notified of this concern and will be kept advised of the progress of investigations and selected fixes.

A program is being developed and initiated by B&W Company, WPPSS, and WKM to attempt to determine probable cause and extent of these defects and indications and to determine acceptable fixes. The follow-up action plan will include assurance of the acceptability of all 48 valves supplied to B&W Company contracts by WKM.

A list of the WKM valves supplied by B&W with notation of the valves with defects or indications and a sketch showing core flood valve defects are attached.

Very truly yours,

*James H. Taylor*  
James H. Taylor  
Manager, Licensing

JHT:dsf

Attach.

cc: R. D. Borsum (B&W)  
J. H. MacMillan (B&W)

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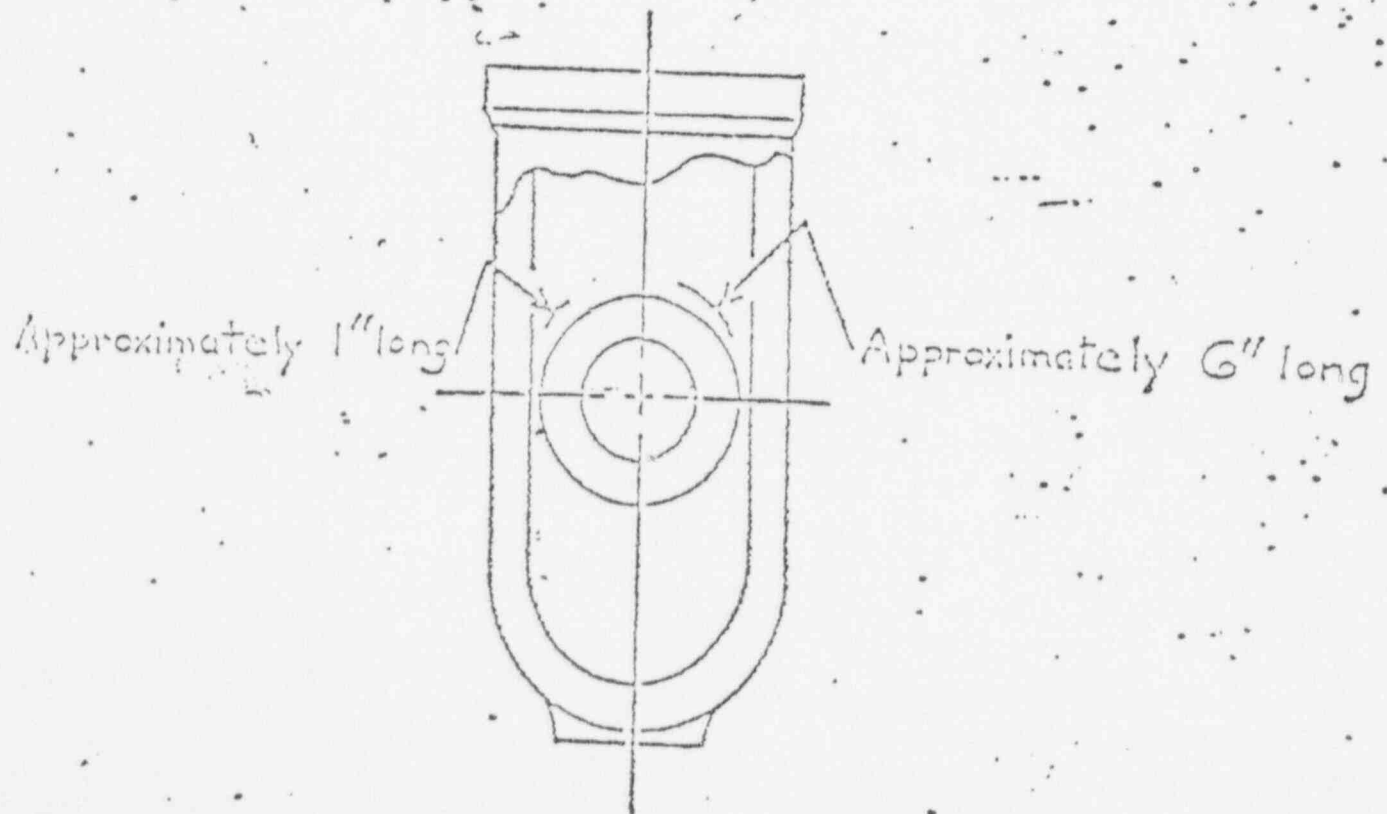
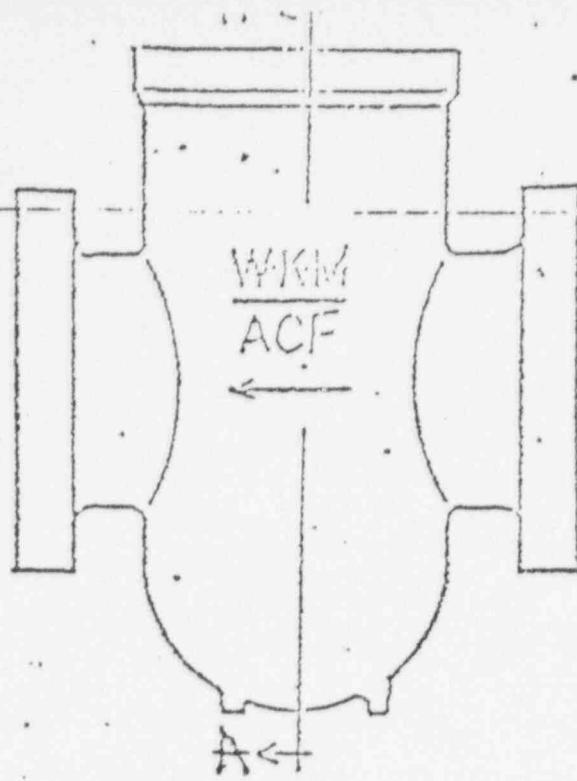
WKM Valves with Possible Defects

<u>Item</u>		<u>Valve Class</u>	<u>Valve Designation</u>	<u>System/Plant</u>	<u>Defect Noted By</u>
Decay Heat Removal System Isolation Valves	Case I - Discovered by WPPSS	Class 1	DH - V12A	DHR/Unit 1	Visual and PT
			DH - V12B	DHR/Unit 1	PT
		Class 1	4 DH - V11B	DHR/Unit 4	Visual and PT
			V11A	DHR/Unit 4	Visual and PT
			V12A	DHR/Unit 4	Visual and PT
			V12B	DHR/Unit 4	Visual and PT
Core Flooding System Isolation Valves	Case II Discovered by WKM	Class 2	4 CF - 1A	CF/Unit 4	Visual linear cracks plus radiography

WKM Total Valve Count Backlog Contracts

PASNY 2 - All decay heat cooler outlet control valves  
 TVA 4 - All decay heat cooler outlet control valves  
 PGE 14 - 12 isolation valves + 2 decay heat cooler outlet control valves  
 WPPSS 28 - 24 isolation valves + 4 decay heat cooler outlet control valves  
 48 WKM Valves

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SECTION A-A

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