

Attachment A
WNP-1/4
Docket Nos. 50-460 and 50-513
Reportable Condition 10CFR50.55(e)
WKM Valve Cracks

INTERIM REPORT

Background

B&W notified WPPSS on October 8, 1979 of a defective condition which existed in the internal pressure relief valve of the WKM manufactured valves being supplied for WNP-1/4 (reportability of this defect is being evaluated by B&W). Due to this defect, all valves manufactured by WKM were shipped back to their factory in Houston for repair and WPPSS took this opportunity to perform the ASME Sec. XI visual exam of the large Sec. III, C1 1 valves in WKM's factory.

This examination revealed numerous linear indications in the conduit region of five (5) of the eight (8) valves examined and arc strikes on the gate and segment of six (6) valves.

Description of Deficiency

Unacceptable linear indications were subsequently confirmed on six (6) of the eight (8) valves through the use of liquid penetrant examination. These valves are: 1-DHR-V23A and 24B, and 4-DHR-V23A, 24B, 25A, 26B. B&W and WKM also informed WPPSS of cracks which were detected in valve 4-CFS-V31A. These cracks were confirmed by WPPSS and the WPPSS ANI and found to be extensive. The cause of these problems is unknown; however, adequate inspection would have identified the conditions during the manufacturing process.

Safety Implications

All rejectable indications and cracks found, to date, are in valves located in safety systems (Low Pressure Injection (LPI) and Core Flood System (CFS)). Failure of these valves in service due to a loss of pressure boundary integrity could result in;

- a) a loss of reactor coolant (DHR valves),
- b) loss of borated water in the core flood tank
- c) an inability of the systems to mitigate the consequences of a LOCA type accident.

The subject condition also represents deficiencies as described under both i and iii of 10CFR50.55(e).

Corrective Action Taken

Since these valves have already received an ASME N stamp, they fall under the jurisdiction of ASME XI and WPPSS, as the Owner, has the responsibility for all future examination and repair.

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Corrective Action Taken (Cont'd)

B&W and WKM are presently preparing the repair/inspection program for submittal to WPPSS. The repairs and additional examinations will be performed by B&W and WKM under WPPSS direction.

Further inspection on all WKM manufactured valves supplied to WPPSS is being planned.

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ATTACHMENT B