Docket Nos. 50-460/513

50.55(e) Report

Washington Public Power Supply System

P.O. Box 968 3000 George Washington Way Richland, Washington 99352 (509) 372-5000

February 26, 1982
GO-1-82-0061

Nuclear Regulatory Commission
Region V
1450 Maria Lane, Suite 210
Walnut Creek, California 94596

Attention: Mr. R. H. Faulkenberry
Chief, Reactor Construction
Projects Branch

Subject: NUCLEAR PROJECTS 1 & 4
DOCKET NOS. 50-460 AND 50-513
REPORTABLE CONDITION
WKM VALVE LOCK PINS

Reference: Telecon ME Rodin, Supply System to PP Narbut,
Region V Nuclear Regulatory Commission dated 1/26/82

In the above reference the Supply System informed your office of a potentially reportable condition under the requirements to 10CFR50.55(e).

Since the time of our original telecon report we have concluded that the subject condition is reportable. In keeping with that decision, Attachment A includes a statement of the discrepant condition and the corrective action to be taken by the Project. At this time it is not possible to provide a final completion date therefore, the Supply System will submit to your office interim status reports on a quarterly basis.

If you have any questions or desire further information, please advise.

D. W. Mazur
Program Director, WNP-1/4

Attachment

DWM:MER:lm

cc: CR Bryant, BPA/399
V. Stello, Director of Inspection, NRC
FDCC/899
EW Edwards, Bechtel/860
V. Mani, UE&C/896

ATTACHMENT A
WNP-1/4
DOCKET NOS. 50-460 AND 50-513
REPORTABLE CONDITION 10CFR50.55(e)
WKM VALVE LOCK PINS INTERIM REPORT

BACKGROUND

Because of a potential problem reported by the Tennessee Valley Authority associated with the possible mis-machining of the locking pin holes for specific WKM Valves used in both the A and B trains of the Decay Heat Removal System, the site was requested by Babcock and Wilcox in a letter to UE&C dated Janaury 14, 1982, letter number BWUE-82-026, to perform an examination of four (4) valves. The site examined valves DH-V3A, DH-V3B, 4DH-V3A and 4DH-V3B for double drilling of the lock pin holes in the plug or lower stem. During this inspection, it was noted that there was discoloration (rust) in the lock pin area of the Unit 4 valves, but not in the Unit 1 valves. Further investigation using a pencil magnet revealed that there was some magnetic material in the area of the lock pin on the Unit 4 valves. A review of the Bill of Material revealed the plug to be SA182-F316, the stem A564-TP630, and the lock pin A276-TP316 material, this led B&W to believe that the pin was carbon steel. The original concern of double drilling and loose pin problems was not noted in either the Unit I or Unit 4 valves.

DESCRIPTION OF DEFICIENCY

Because of the apparent discrepancy in the lock pin material valve 4DH-V3B was returned to WKM for disassembly and verification of the pin material. Upon removal of the lock pin it was cut in half for both B&W and WKM material analysis. The results of the analysis indicated that the material was carbon steel rather than the required stainless steel.

During the original investigation no discoloration of the Unit I valves was observed, further examination with the magnitic pencil did not indicate that there was any magnetic material in the lock pin area. A review of the documentation (material certification) for the Unit I valves has yet to be completed to ascertain whether or not the material used in the lock pins for the Unit I valves complied with the specification.

SAFETY IMPLICATIONS

Any material, other than the required stainless steel 316 could corrode, eventually break apart and not permit the valve(s) to perform its open and closed functions.

CORRECTIVE ACTION PLANNED

Based on the results of the analysis performed on the lock pin material WKM has agreed to replace the lock pins in the Unit 4 valves with the correct material. As for the Unit I valves, preliminary examination indicates that the lock pins are not carbon steel however, an examination of the supporting documentation has yet to be completed to support that position. If the documentation fails to support the assumption that lock pins are of the appropriate material, actions similiar to those taken for the Unit 4 valves will be considered.

CURRENT STATUS

As of the date of this report the Unit 4 valves have not been reworked nor has the documentation review been completed. A final schedule has not yet been established therefore, the Supply system will continue to provide interim reports to the NRC on a quarterly basis.