

50.55(e) Report

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Washington Public Power Supply System

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REGION V

April 4, 1983

G01-83-0132

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

Attention: D.M. Sternberg, Chief
Reactor Projects Branch No. 1

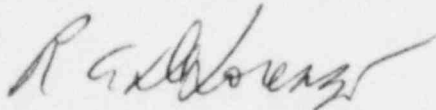
Subject: NUCLEAR PROJECTS 1 & 4
DOCKET NOS. 50-460 AND 50-513
REPORTABLE CONDITION 10CFR50.55(e)
WKM VALVE LOCK PINS

Reference: 1) Telecon ME Rodin, Supply System to PP Narbut, Region V,
Nuclear Regulatory Commission, dated 1/26/82
2) G01-82-0061, dated February 26, 1982, DW Mazur
to RH Faulkenberry
3) G01-82-0278, dated June 2, 1982, RW Root to
RH Faulkenberry.

In reference 1) the Supply System informed your office of a potentially reportable deficiency under the requirements to 10CFR50.55(e), and reference 2) and 3) were interim reports on the subject condition.

Enclosed, as attachment A, is our final report that includes a statement of the corrective action taken to address the reportable and potentially reportable deficiencies. Although reference 3) indicated that the actual rework would not be performed until sometime after restart of construction, the decision was made to replace the remaining lock pins during the extended construction delay. Since this work was completed on March 22, 1983, this is considered a final report.

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



R.A. De Lorenzo
Program Director, WNP-1

Attachment

RAD/RL/cmh

cc: V. Stello, Director of Inspection, NRC
J.P. Laspa, BPC (860)
V. Mani, UE&C (890)
FDCC 899
ORM 847

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ATTACHMENT A
WNP-1/4
DOCKET NOS. 50-460 AND 50-513
REPORTABLE CONDITION 10CFR50.55(e)
WKM VALVE LOCK PINS FINAL 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 January 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 1 or Unit 4 valves.

DESCRIPTION OF DEFICIENCY

Because of the apparent discrepancy in the lock pin material, valve 4DH-V3A (our previous interim reports erroneously listed this valve as 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 1 pin material was observed, further examination with the magnetic 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 1 valves was completed and it was determined that the material used in the lock pins for the Unit 1 valves complied with 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

Based on the results of the analysis performed on the lock pin material for Unit 4, WKM agreed to replace the lock pin in the remaining Unit 4 valve (4DH-V3B) with the correct material. As for the Unit 1 valves, it was decided by the Project, in cooperation with WKM and B&W that, although the documentation indicated that the lock pins for the valves were acceptable, a more conservative approach would be taken and the lock pins for the Unit 1 valves would be replaced.

The lock pin changeout for valve 4DH-V3A was previously performed at WKM as noted above. The changeout for the remaining valves (4DH-V3B, DH-V3A & DH-V3B) was performed at the site and completed March 22, 1983. It was found that the lock pins in the Unit 1 valves were non-magnetic and therefore not of the same material as the Unit 4 valves.

Supply System Project QA conducted a surveillance of the activities associated with the lock pin replacement to assure satisfactory completion of this work. The data packages for each of the affected valves have been updated to reflect the replacement of the lock pins. With the corrective action complete, this is considered our final report..