Washington Public Power Supply System
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October 13, 1983
G02-83-916

Mr. J. B. Martin
Regional Administrator
U.S. Nuclear Regulatory Commission
Region V
1450 Maria Lane, Suite 210
Walnut Creek, California 94596

Subject: NUCLEAR PROJECT NO. 2
10CFR50.55(e) REPORTABLE CONDITION #262
POWER PIPING REAR BRACKETS

References:
1. Telecon QA2-83-123, dated June 23, 1983, L.C. Floyd to P. Narbut, same subject.
2. Letter G02-83-651, dated June 22, 1983, C.S. Carlisle to J.B. Martin, same subject.

In accordance with the provisions of 10CFR50.55(e), your office was informed of the subject condition by the above references. The attachment provides the Project's final report on Condition #262.

If there are any questions concerning this matter, please contact Roger Johnson, WNP-2 Project QA Manager, (509) 377-2501, extension 2712.

C. S. Carlisle
Program Director, WNP-2

LCF/kd

Attachment: As stated

cc: W.S. Chin, BPA
N.D. Lewis, EFSEC
A. Toth, NRC Resident Inspector
Document Control Desk, NRC

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WASHINGTON PUBLIC POWER SUPPLY SYSTEM
NUCLEAR PROJECT NO. 2
DOCKET NO. 50-397
LICENSE NO. CPPR-93
10CFR50.55(e) CONDITION #262
POWER PIPING M-146 REAR BRACKETS

FINAL REPORT

Description of Deficiency

The Power Piping M-146 rear brackets were substituted for the previously approved and no longer available, M-142 brackets. Upon receipt of the M-146 brackets, the Construction Manager, Bechtel Power Corporation, issued for use and installed the M-146 brackets prior to the Architect Engineer (AE) approval of the Load Capacity Data Sheets. Subsequent to the issuance for use and installation of the M-146 brackets, the AE disapproved Power Piping M-146 rear bracket sizes 15, 20, 25, 40, and 50. Sizes 60 and 80 were approved.

Safety Implication

The M-146 brackets are used in applications designed for dead weight and/or seismic loads. The failure of one or more brackets could result in an overstressed piping condition and subsequent system failure. This condition is considered to be reportable under the provisions of 10CFR50 55(e).

Cause for the Deficiency

The condition results from the installation of a standard component which had been changed by the vendor in a manner which did not affect the certified load capacity data sheet, but did alter the attachment weld configuration. The 215 specification did not require submittal by the construction contractor of drawings on standard components because Burns and Roe relied on the vendor catalogs and the Certified Load Capacity Data Sheets for component characteristics in performing the design. The standard component vendor, however, reserved the right to make changes without notification to the users and in this instance, reduced the effective area for the weld attaching the component to the supporting structure.

Corrective Action

The Construction Contractor (Bechtel) initiated a detail review under Request for Information (RFI) C-0500-H-3123 to identify to the Architect Engineer (Burns and Roe, Inc.) those installations where the replacement, M-146 Power Piping bracket, had been utilized. Burns and Roe evaluated the installation data provided by Bechtel and resolved the use of the M-146 brackets in the disposition of the RFI. Two Project Engineering Directives (PED's) were issued (208-H-0778 and 215-H-X911) to document the acceptability of the brackets in their installed locations. The consequences of the deficiency in general, have not resulted in changes to the installed conditions.

Action to Prevent Recurrence

Burns and Roe has revised the 215 Specification, Section 1B, Appendix D and Section 15R to require component standard support outline drawings be submitted to the owner. This action, in conjunction with submittal of "as-built" information for Quality Class I installations, should assure conformance between the installation and the design.