Washington Public Power Supply System
Box 1223 Elma, Washington 98541-1223 (206)482-4428

December 27, 1985
G03-85-751

Docket No. 50-508

U. S. Nuclear Regulatory Commission, Region V
Office of Inspection and Enforcement
1450 Maria Lane, Suite 260
Walnut Creek, California 94596-5368

Attention: Mr. D. F. Kirsch, Acting Director
Division of Reactor Safety and Projects

Subject: NUCLEAR PROJECT NO. 3
POTENTIAL 10CFR50.55(e) DEFICIENCY
HPSI PUMP SUCTION NOZZLE WELD
DEFECT (D/N #60)

On November 27, 1985, the Supply System notified your office of a potential 10CFR50.55(e) deficiency concerning the subject condition. Attached is a Supply System approved Interim Report. The report provides a description of the deficiency, analysis of safety implications and corrective actions taken/planned.

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To date, the Supply System has not received sufficient information from Combustion Engineering (CE) to fully address the safety implications and corrective actions. Upon receipt of additional information from CE and depending on availability of Supply System resources during the extended construction delay, a Final Report will be provided to your office.

Should you have any questions or desire further information, please contact me directly.

Charles Butler For

A. D. Kohler (760)
Acting Program Director, WNP-3

DRC/cae

Attachment

cc: Mr. J. A. Adams, NAESCO
Mr. M. K. Barnoski, CE
Mr. R. M. Boucher, Pacific Power & Light Co.
Mr. W. L. Bryan, Washington Water Power Co.
Mr. J. Crnich, Ebasco - Elma
Ebasco, Elma
Mr. J. R. Lewis, BPA
Mr. R. V. Myers, Puget Sound Power & Light Co.
Mr. N. S. Reynolds, Bishop, Liberman, Cook, Purcell & Reynolds
Mr. D. Smithpeter, BPA
Mr. B. D. Withers, Portland General Electric Co.
Document Control Desk - U. S. NRC

WASHINGTON NUCLEAR PROJECT 3
(Docket No. 50.508)
POTENTIAL 10CFR50.55(e) DEFICIENCY
INTERIM REPORT
HPSI PUMP SUCTION NOZZLE WELD DEFECT (D/N #60)

DESCRIPTION OF DEFICIENCY

A Supply System review of radiographic film for the High Pressure Safety Injection (HPSI) pump casing to suction nozzle weld disclosed a rejectable weld defect (lack of fusion approximately 1/4 inch long). The pump was manufactured by Ingersoll-Rand, provided by Combustion Engineering (CE) in accordance with Contract 3240-02 and installed at WNP-3.

ANALYSIS OF SAFETY IMPLICATIONS

A significant defect in the HPSI pump casing could lead to a major failure of the pump's pressure boundary during limiting Design Basis Events (DBE); e.g., a Safe Shutdown Earthquake (SSE). HPSI pump operation is credited during select DBE's and a major pressure boundary failure could seriously affect (or prevent) pump operation. Such a condition could nullify HPSI pump redundancy assumptions associated with DBE safety analyses.

Based on the above, the possibility for a serious defect in the HPSI pump casing is considered a potentially reportable condition under the criteria of 10CFR50.55(e). Upon completion of an Engineering evaluation of the defect, a final analysis of safety implications will be performed.

CORRECTIVE ACTIONS

The deficiency has been identified on a site Nonconformance Report and the equipment tagged. Presently, CE is performing a detailed technical review of the defect. This review will determine the seriousness of the defect and appropriate corrective actions. A Final Report will be prepared upon receipt of the CE review results.