Washington Public Power Supply System
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Docket No.: 50-508

November 21, 1984

G03-84-733

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
FOXBORO N-2AC MODULE FUSE PIN DAMAGE (D/N#55)

On October 26, 1984, the Supply System notified your office of a potential 10CFR50.55(e) deficiency concerning the subject condition. A subsequent Engineering/Licensing evaluation has determined that if the deficiencies remained uncorrected they could have affected adversely the safety of operations of the plant. Therefore, the subject condition is reportable in accordance with the provisions of 10CFR50.55(e).

Attached is the Supply System approved final report. The report provides a description of the deficiency, analysis of safety implications and corrective actions taken/planned. Should you have any questions or desire further information, please contact me directly.

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WNP-3 Program Director

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WASHINGTON NUCLEAR PROJECT NO. 3
(DOCKET NO. 50-508)
10CFR50.55(e) DEFICIENCY
FINAL REPORT
FOXBORO N-2AC MODULE FUSE PIN DAMAGE (D/N#55)

DESCRIPTION OF THE DEFICIENCY

The Foxboro Company notified the Supply System of a manufacturing deficiency in Spec 200, N-2AC modules. WNP-3 analog process controls utilize the Foxboro's Spec 200 System furnished by the Mercury Company of Norwood (Contract No. 3240-59) and Combustion Engineering (Contract No.3240-02). The deficiency is associated only with modules fabricated from May 1, 1984 to July 1987. These modules are identifiable by the model code and date code.

The deficiency relates to manufacturing damage to the fuse pins which are an integral part of the plastic molding. Damage is caused when the fuse pins are staked into the plastic molding, and result in separation of the upper portion of the female jack pin. The potential problem, should it be present, would demonstrate itself in an identical manner to a blown fuse, namely loss of power.

A Site inspection by WNP-3 Maintenance personnel indicated that a total of thirty-eight (38) defective N-2AC modules were installed in ten (10) safety related process cabinets (CP5, CP6, CP7, CP8, CP48, CP49, CP50, CP73, CP74 and CP75) supplied by Mercury Co.

ANALYSIS OF THE SAFETY IMPLICATIONS

The deficiency could result in loss of control power for the critical safety systems - auxiliary feedwater, component cooling water, containment spray, emergency core cooling, and portions of main steam and HVAC. This may render the systems unable to perform their intended safety functions (i.e., mitigate the consequences of a loss-of-coolant accident or safely shut down the Plant under an emergency condition).

If the deficiencies remained uncorrected, they could have affected adversely the safety of operations of the Plant and, hence, are reportable under the provisions of 10CFR50.55(e).

CORRECTIVE ACTIONS

1. Defective modules have been identified and documented on a Nonconformance Report.

2. Upon construction restart at WNP-3, the defective modules will be replaced with new modules furnished by Foxboro Co.