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

December 6, 1982 Responds to: -
G01-82-0792 Response required by: NA

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

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

Subject: NUCLEAR PROJECTS 1 AND 4
DOCKET NOS. 50-460 AND 50-513
POTENTIALLY REPORTABLE CONDITION 10CFR50.55(e)
GENERAL ELECTRIC CIRCUIT BREAKERS
AKR-30 AND AKR-50

Reference: Telecon CR Edwards, Supply System to
A. D'Angelo dated Nov. 15, 1982

In the above reference the Supply System informed your office of a Potentially Reportable Condition under the provisions of 10CFR50.55(e).

Attachment A to this letter, includes a statement of the identified condition and a brief description of our planned corrective action. It has been concluded by the Project that the subject condition is reportable under the provision of 10CFR50.55(e) in that the circuit breakers are being utilized in Class 1E safety related applications. It is anticipated that the corrective action will be fully implemented and verified by the end of April 1983. If circumstances change during the interim, we will promptly inform your office of the change(s).

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

Bill Root

R. W. Root
Acting Program Director - WNP-1

RWR:CRE:pm

Attachment

cc: JP Laspa - Bechtel Power Corporation
V Mani - United Engineers & Constructors, Inc.
JD Bateman - United Engineers & Constructors, Inc.
A Toth, NRC - WNP-2
V Stello, Director of Inspection, NRC

1E27

ATTACHMENT A
WNP-1/4
DOCKET NOS: 50-460 and 50-513
REPORTABLE CONDITION 10CFR50.55(e)
GENERAL ELECTRIC CIRCUIT BREAKERS TYPES AKR30
AND AKR50, SERVICE ADVICE NO 175-9.11

BACKGROUND

In its letter of September 23, 1982, the General Electric Company informed the Supply System that other potential problems exist in their electrically operated low voltage circuit breaker types AKR30 and AKR50. This report provides the corrective action being taken to rectify the identified problems and appraises the NRC of the current status.

DESCRIPTION OF DEFICIENCY

The General Electric Company (GE) Service Advice No. 175-9.11 indicates that GE electrically operated low voltage circuit breaker types AKR30 and AKR50 manufactured before May 1980 may contain a defective switch and an improperly heat treated part which, under certain conditions, could result in failure of the circuit breaker to close upon command. The defective switch is part of the breaker rack-out circuitry which has no safety function. The other part is a spring which is part of the breaker latching assembly.

GE is not aware of any such failures but advises that both parts should be replaced.

SAFETY IMPLICATIONS

The potential failure of the improperly heat treated spring identified in GE Service Advice 175-9.11 could result in failure of the circuit breaker to latch closed on command. This could result in safety related equipment not starting, when required, for lack of power. As we have experienced no breaker failures due to this concern, the actual safety implications of this condition on our plant are indeterminate.

CORRECTIVE ACTION PLANNED

The architect-engineer for WNP-1/4, United Engineers & Constructors, Inc. performed a review of all low voltage breakers being used in the WNP-1/4 plant and determined that seventy-five (75) GE type AKR30 and AKR50 breakers are being used for Class 1E applications. These are the same units previously reported in our letter of April 2, 1982 (GO1-82-0120) which are now being repaired in the local GE facility. Arrangements have been made for GE to also correct the breakers for this reported condition. The defective safety-related spring and the non-safety-related switch will both be replaced and the corrective action completed by the end of April 1983.