

P21 92058
Publicly Available

*****CORRECTED COPY*****

PRIORITY ATTENTION REQUIRED MORNING REPORT - REGION V, APRIL 20, 1992

Licensee/Facility:

Arizona Public Service Co.
Palo Verde 3
Wintersburg, Arizona
Dockets: 50-530
PWR/CE80

Notification:

MR Number: 5-92-0024
Date: 04/20/92
RI FAX TO RV

Subject: REACTOR TRIP BREAKER FAILED TO FULLY OPEN - UPDATE

Reportable Event Number: N/A

Discussion:

THIS IS AN UPDATE OF INFORMATION PROVIDED IN PRELIMINARY NOTIFICATION PNO-V-92-10. ON MARCH 31, 1992, THE "C" REACTOR TRIP BREAKER OF UNIT 3 FAILED TO FULLY OPEN DURING ROUTINE SURVEILLANCE TESTING OF THE REACTOR PROTECTION SYSTEM. EARLIER THAT WEEK, THE "A" REACTOR TRIP BREAKER FAILED TO CLOSE DURING TESTING. THE "C" AND "D" REACTOR TRIP BREAKERS ARE WESTINGHOUSE MODEL DS-206, AND THE "A" AND "B" BREAKERS ARE GENERAL ELECTRIC MODEL AKR-30.

A SPECIAL INSPECTION WAS CONDUCTED BEGINNING APRIL 3, 1992 WITH RESIDENT AND REGIONAL INSPECTORS. THE INSPECTION REVIEWED THE LICENSEE'S TROUBLESHOOTING OF BOTH GE AND WESTINGHOUSE REACTOR TRIP BREAKERS.

THE WESTINGHOUSE DS-206 BREAKER FAILURE TO OPEN WAS DETERMINED TO BE PRIMARILY DUE TO INSUFFICIENT OPENING SPRING COMPRESSION CAUSED BY MISADJUSTMENT. THIS POTENTIAL PROBLEM IS DESCRIBED IN WESTINGHOUSE TECHNICAL BULLETIN NSD-TB-91-06-RO. THE LICENSEE HAD THIS TECHNICAL BULLETIN BUT HAD NOT PERFORMED THE INSPECTION. THE TECHNICAL BULLETIN WARNED THAT IF ITS PROCEDURES WERE NOT FOLLOWED, THE POTENTIAL EXISTED FOR THE BREAKER TO NOT OPEN, BUT ALSO ONLY RECOMMENDED THIS INSPECTION WHEN DIFFICULTIES HAD BEEN EXPERIENCED WITH ELECTRICAL OPENING OF A BREAKER. THE LICENSEE HAD NOT EXPERIENCED SUCH DIFFICULTIES. THE AFFECTED BREAKER DID NOT FULLY OPEN WITH THE RESET/OPENING SPRING DISCONNECTED AS DESCRIBED IN THE BULLETIN, AND SUBSEQUENT TESTING OF OTHER REACTOR TRIP BREAKERS ON SITE SHOWED THAT FOUR OUT OF SEVEN BREAKERS TESTED TO DATE FAILED TO OPEN WITH THIS SPRING DISCONNECTED.

THE GENERAL ELECTRIC AKR-30 BREAKER FAILURE TO CLOSE WAS DETERMINED TO BE INSUFFICIENT CLEARANCE BETWEEN THE UNDERVOLTAGE DEVICE ARMATURE AND THE TRIP SHAFT PADDLE LINKAGE. THIS CLEARANCE SPECIFICATION WAS NOT IN THE VENDOR TECHNICAL MANUAL AND WAS OBTAINED FROM A GENERAL ELECTRIC REPRESENTATIVE ON SITE WHO PROVIDED THIS INFORMATION VERBALLY FROM BREAKER DESIGN DRAWINGS. THE LICENSEE HAS REQUESTED THAT GENERAL ELECTRIC PROVIDE THIS SPECIFICATION FORMALLY.

Regional Action:

RESIDENT AND REGIONAL INSPECTORS ARE CONTINUING TO MONITOR THE LICENSEE'S ACTIVITIES.

Contact: J.F. Ringwald
H.J. Wong

(602)386-3638
(FTS)448-0296