

DCS No: 50278/840610
Date: June 12, 1984

PRELIMINARY NOTIFICATION OF EVENT OR UNUSUAL OCCURRENCE--PNO-I-84-51

This preliminary notification constitutes EARLY notice of events of POSSIBLE safety or public interest significance. The information is as initially received without verification or evaluation, and is basically all that is known by the Region I staff on this date.

Facility: Philadelphia Electric Co.
Peach Bottom, Unit 3
Delta, Pennsylvania
(D/N 50-278)

Licensee Emergency Classification:
 Notification of Unusual Event
 Alert
 Site Area Emergency
 General Emergency
 Not Applicable

Subject: CRACK INDICATIONS IN REACTOR VESSEL JET PUMP INSTRUMENT NOZZLES

Ultrasonic Testing (UT) found crack indications in both Unit 3 reactor vessel jet pump instrument nozzles. The indications are located on the inside of the nozzle safe end to reducer weld and are circumferential in direction. The A nozzle has an indication 1.75 inch long and 0.170 inch deep into the 0.360 inch wall thickness. The B nozzle has an indication 1.0 inch long and 0.075 inch deep. The weld joint connects the nozzle safe end to a 33 inch long dead end seal line through which 12 jet pump instrumentation pressure tubes pass. Preliminary evaluation has attributed the cracking to intergranular stress corrosion cracking (IGSCC).

The UT examination was prompted by Thursday's discovery of a through wall crack in a Unit 2 reactor vessel jet pump instrument nozzle. (Unit 2 is currently in an extended outage to replace recirculation and RHR piping with a planned completion date of January, 1985). The initial UT examination on Unit 3 was performed June 10 and was confirmed by a second UT examination on June 11. The NRC Resident Inspector was notified on June 10.

When the crack was discovered, Unit 3 was in a ten day maintenance outage begun June 1. The licensee is evaluating use of a weld overlay repair procedure in parallel with evaluating a fracture mechanics analysis to permit operation until the next refueling outage. Initial estimates indicate that the resolution of the problem will extend the outage at least a week. Region I continues to review the licensee's action.

The Commonwealth of Pennsylvania and the State of Maryland have been informed.

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