POWER REACTOR	EVENT NUMBER: 23834

FACILITY: SUMMER REGION: 2 UNIT: [1] [ ] [ ] STATE: SC RX TYPE: [1] W-3-LP	NOTIFICATION DATE: 07/10/92 NOTIFICATION TIME: 17:32 [ET] EVENT DATE: 07/10/92 EVENT TIME: 16:00[EDT] LAST UPDATE DATE: 07/10/92
NRC NOTIFIED BY: DAVID HAILE HQ OPS OFFICER: THOMAS ANDREWS	NOTIFICATIONS
EMERGENCY CLASS: NOT APPLICABLE 10 CFR SECTION: CDEG 21.21(c)(3)(i) DEFECTS/NONCOMPLIANCE	

UNIT	SCRAM CODE	RX CRIT	INIT PWR	INIT RX MODE	CURR PWR	CURR RX MODE
1	N	Y	100	POWER OPERATION	100	POWER OPERATION

EVENT TEXT

THE EVALUATION OF AN IDENTIFIED DEFECT POTENTIALLY ASSOCIATED WITH A SUBSTANTIAL SAFETY HAZARD AS DESCRIBED IN AN INTERIM REPORT SUBMITTED ON JANUARY 6, 1992 HAS BEEN BEEN COMPLETED. THIS EVALUATION RESULTED IN A DETERMINATION THAT THE SUBSTANTIAL SAFETY HAZARD DID EXIST.

ON NOVEMBER 7, 1991, THE 'C' FEEDWATER ISOLATION VALVE ACTUATOR (XVG-1611C-0-FW) FAILED DURING POST MODIFICATION TESTING. THE FAILURE HAS BEEN TRACKED TO A 'POPPET' SEAL IN THE CONTROL VALVE ASSEMBLY WHICH CONTROLS THE OPENING AND CLOSING OF THE FEEDWATER ISOLATION VALVE. SUBSEQUENTLY, SEVERAL ADDITIONAL FAILURES OCCURRED DURING EXTENDED TESTING. AS A RESULT, A NEW DESIGN 'POPPET' SEAL WAS EXTENSIVELY TESTED AND PLACED INTO SERVICE, RESOLVING THE PROBLEM.

AT THIS TIME, THE LICENSEE IS EVALUATING THE FAILURES AS FOLLOWS:

1. TESTING BY AN INDEPENDENT LAB TO DETERMINE THE PHYSICAL PROPERTIES OF THE ORIGINAL 'POPPET' SEALS.

2. COMPARING 'AS FOUND' PHYSICAL PROPERTIES OF THE 'POPPET' SEALS TO 'AS SPECIFIED' PROPERTIES.

3. PERFORMING 'FINITE ELEMENT' ANALYSIS ON THE ORIGINAL AND NEW 'POPPET' SEAL DESIGNS.

4. DEVELOPING CONCLUSIONS AS TO 10 CFR 20.21 REPORTABILITY.

THE LICENSEE EXPECTS TO COMPLETE THIS EVALUATION BY JULY 15, 1992.

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THIS NOTIFICATION IS BEING MADE PER THE REQUIREMENTS OF 10 CFR 21.21(C)(3)(I). A WRITTEN REPORT WILL BE SUBMITTED WITHIN 30 DAYS.

THE NRC RESIDENT INSPECTOR HAS BEEN NOTIFIED. NO OTHER NOTIFICATIONS ARE REQUIRED OR ANTICIPATED.