

POWER REACTOR

EVENT NUMBER: 23429

FACILITY: HOPE CREEK REGION: 1
UNIT: [1] [] [] STATE: NJ
RX TYPE: [1] GE-4
NOTIFICATION DATE: 05/08/92
NOTIFICATION TIME: 17:43 [ET]
EVENT DATE: 05/04/92
EVENT TIME: 12:00 [EDT]
LAST UPDATE DATE: 05/08/92

NRC NOTIFIED BY: LABRUNA
HQ OPS OFFICER: GREG SCARFO

NOTIFICATIONS

EMERGENCY CLASS: NOT APPLICABLE
10 CFR SECTION:
CDEF 21.21(b)(2) 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

A DESIGN DEFECT WAS DISCOVERED IN THE DEGRADED GRID TRIP/BUS TRANSFER SCHEME FOR CLASS 1E VITAL BUS EQUIPMENT. THIS DESIGN WAS SUPPLIED BY BECHTEL POWER CORPORATION.

THE STATION SERVICE TRANSFORMERS "1AX501" AND "1BX501" (13.8KV/4.16KV) UTILIZE AUTOMATIC LOAD TAP CHANGERS WHICH EACH FEED TWO OF FOUR CLASS 1E BUSES. AN ENGINEERING ANALYSIS INDICATES THAT IF AN AUTOMATIC LOAD CHANGER FAILED IN THE "LOW POSITION" CONCURRENT WITH A LOCA, A BUS SWAPOVER FROM ONE STATION SERVICE TRANSFORMER TO THE OTHER (THE ALTERNATE POWER SUPPLY) COULD OCCUR. AC POWER SUPPLIED TO THE CLASS 1E LOADS COULD BE ELECTRICALLY OUT-OF-PHASE WITH THE ORIGINAL POWER SUPPLY AND MAY DAMAGE THE SAFETY EQUIPMENT. BECHTEL POWER CORPORATION SUPPLIED THE DESIGN OF THIS BUS TRANSFER SCHEME.

A CORRECTIVE ACTION WAS IMPLEMENTED TO INCORPORATE A .7 SECOND TIME DELAY IN THE LOADING SCHEME TO ALLOW LOADS TO DROP OFF OF THE AUTO-SWAPPED CLASS 1E BUSES AND PREVENT THEM FROM BEING DAMAGED. THE LICENSEE HAS DETERMINED THAT THE ADDITIONAL TIME DELAY WILL NOT AFFECT THE ACCIDENT LOADING. THE LICENSEE IS DRAFTING A PART 21 REPORT AND WILL SUBMIT IT WITHIN 30 DAYS.

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PDR ADOCK 05000354
S PDR

JEL 19/10