

LICENSEE: DUQUESNE LIGHT CO.
 SITE: BEAVER VALLEY 1 EN NUMBER:25098
 DOCKET: 05000334 EVENT DATE: 02-18-93
 RX TYPE: PWR EVENT TIME: 14:00
 VENDORS: W-3-LP NOTIFY DATE: 02-18-93
 EMERGENCY CLASS: N/A REGION: 1 STATE: PA TIME: 14:35
 OPS OFFICER: STEVE SANDIN
 10 CFR SECTION: AINC 50.72(b)(2)(iii)(C) POT UNCNTRL RAD REL
 UNIT SCRAM RX INIT INITIAL MODE CURR CURRENT MODE
 CODE CRIT PWR PWR
 1 N Y 90 POWER OPERATION 90 POWER OPERATION

UNIT 1, AFTER COMPLETING AN ANALYSIS PROMPTED BY A WESTINGHOUSE NUCLEAR SAFETY ADVISORY LETTER "DLW-92-701" DATED 12/29/93, DETERMINED THAT A POTENTIAL RELEASE EXCEEDING 10 CFR 100 LIMITS COULD OCCUR FOLLOWING A LOSS OF COOLANT ACCIDENT.

"WESTINGHOUSE NUCLEAR SAFETY ADVISORY LETTER, DATED 12/29/92, ALERTED BEAVER VALLEY OF POTENTIAL CHECK VALVE LEAKAGE DURING A LOCA. UPON ANALYSIS, IT WAS DETERMINED THAT BEAVER VALLEY UNIT 1 IS SUSCEPTIBLE TO THIS EVENT. THE SCENARIO INVOLVES A LOCA INSIDE CONTAINMENT WHICH THEN CAUSES A TRANSFER FROM AN INJECTION PHASE (HHSI) TO A RECIRC PHASE (LHSI - HHSI). DURING THE RECIRC PHASE, THE VCT OUTLET CHECK VALVE IS POSTULATED TO LEAK BACKWARDS, CAUSING A RELIEF VALVE TO LIFT. THE RELIEF VALVE NORMALLY PROTECTS THE SEAL WATER HEAT EXCHANGER. THE LIFT OF THE HEAT EXCHANGER RELIEF VALVE FILLS THE VCT AND OPENS THE VCT RELIEF VALVE AND THUS CREATES A LOSS OF COOLANT OUTSIDE CONTAINMENT, WHICH HAS BEEN ANALYZED TO EXCEED 10 CFR 100 LIMITS.

THE OPERABILITY OF THE SYSTEM HAS BEEN ASSESSED IN ACCORDANCE WITH GENERIC LETTER 91-18 AND THE SYSTEM IS CONSIDERED OPERABLE BASED ON THE ANALYSIS OF THE POTENTIAL FAILURE. THE CORRECTIVE ACTION WILL INCLUDE AN ANALYSIS TO INCREASE THE SEAL WATER HEAT EXCHANGER RELIEF VALVE SETPOINT TO PRECLUDE ITS LIFTING. A 10 CFR PART 21 IS ALSO UNDER ANALYSIS."

THE COMPONENTS DISCUSSED IN THE ABOVE DESCRIPTION ARE THE VCT OUTLET CHECK VALVE "CH-18", THE SEAL WATER HEAT EXCHANGER RELIEF VALVE "RV-CH-382B" WHICH HAS A RELIEF SETPOINT OF 150 PSIG, AND THE VCT RELIEF VALVE "RV-CH-257" WHICH HAS A RELIEF SETPOINT OF 75 PSIG. THE ASSUMED DISCHARGE PRESSURE OF THE LHSI PUMPS THAT CAUSES THE SEAL WATER HEAT EXCHANGER RELIEF VALVE TO LIFT IS 200 PSIG. THE VCT RELIEF VALVE DISCHARGES TO THE DEGAS SYSTEM.

THE LICENSEE WILL INFORM THE NRC RESIDENT INSPECTOR.

LICENSEE: DUQUESNE LIGHT CO.
 SITE: BEAVER VALLEY 2 EN NUMBER:25160

