

LICENSEE: PUBLIC SERVICE ELECTRIC & GAS CO.  
SITE: HOPE CREEK 1 EN NUMBER: 25756  
DOCKET: 05000354 EVENT DATE: 04-29-93  
RX TYPE: BWR EVENT TIME: 00:00  
VENDORS: GE-4 NOTIFY DATE: 07-07-93  
EMERGENCY CLASS: N/A REGION: 1 STATE: NJ TIME: 13:52  
OPS OFFICER: GREG SCARFO  
10 CFR SECTION: CDEG 21.21(c)(3)(i) DEFECTS/NONCOMPLIANCE  
UNIT SCRAM RX INIT INITIAL MODE CURR CURRENT MODE  
CODE CRIT PWR PWR  
1 N Y 100 POWER OPERATION 100 POWER OPERATION

A PART 21 WAS SUBMITTED BY THE LICENSEE ON COMSIP SERIES  
PTW-5300.

A PART 21 WAS SUBMITTED REGARDING HEAT-DEGRADATION OF COMSIP  
SERIES PTW-5300 DC-POWERED MICROSWITCHES AND A POTENTIAL FAILURE  
MECHANISM WHICH CAN RESULT. THE DAMAGE IS CAUSED BY OVERHEATING  
DURING USAGE WHICH DEGRADES THE EPOXY INSULATION WITHIN THE  
MICROSWITCH. THE FAILURE MECHANISM DISCOVERED IS A POTENTIAL  
SHORT-TO-GROUND WHICH COULD BLOW A FUSE AND DISABLE THE  
MICROSWITCH AND ITS ASSOCIATED CIRCUITRY. THESE MICROSWITCHES  
ARE LOCATED IN 16 SAFETY-RELATED CONTROL PANELS. AN ANALYSIS  
SHOWED THAT THE EPOXY WILL PERFORM ITS FUNCTION FOR APPROXIMATELY  
7.7 YEARS IN A HARSH HEAT ENVIRONMENT. THE 7.7 YEAR LIFE  
EXPECTANCY OF THESE MICROSWITCHES WILL EXPIRE ON 11/15/93.