

LICENSEE: NORTHEAST UTILITIES
 SITE: MILLSTONE 2
 DOCKET: 05000336
 RX TYPE: PWR
 VENDORS: CE
 EMERGENCY CLASS: N/A REGION: 1 STATE: CT
 OPS OFFICER: RUDY KARSCH
 10 CFR SECTION: AIND 50.72(b)(2)(iii)(D) ACCIDENT MITIGATION
 UNIT SCRAM RX INIT INITIAL MODE CURR CURRENT MODE
 CODE CRIT PWR PWR
 2 N N 0 COLD SHUTDOWN 0 COLD SHUTDOWN

THE LICENSEE DISCOVERED A DESIGN DEFICIENCY IN UNDERVOLTAGE
 MODULES WHICH SHORTENS THEIR DESIGN LIFE.

UNDERVOLTAGE MODULES USED IN ACCIDENT MITIGATION EQUIPMENT WERE
 EXPECTED TO HAVE A DESIGN LIFE OF TWENTY YEARS, BUT THE LICENSEE
 HAS EXPERIENCED RANDOM FAILURES WHICH INDICATE A DESIGN LIFE OF
 1.5 YEARS. INVESTIGATIONS BY THE LICENSEE REVEALED A DESIGN
 DEFICIENCY WHICH CONTRIBUTES TO ACCELERATED AGING. IF THREE OUT
 OF FOUR MODULES FAILED SIMULTANEOUSLY, ACTIONS TO MITIGATE
 ACCIDENT CONSEQUENCES MIGHT NOT OCCUR. THE LICENSEE HAS A
 PROGRAM IN PLACE TO REPLACE MODULES PERIODICALLY SO MODULES VARY
 IN AGE. THE LICENSEE FEELS THAT THIS REDUCES THE PROBABILITY
 THAT THREE MODULES WOULD FAIL SIMULTANEOUSLY. THE LICENSEE DOES
 NOT THINK THIS PROBLEM IS GENERIC TO OTHER CE PLANTS. THE
 LICENSEE INFORMED THE NRC RESIDENT INSPECTOR AND STATE AND LOCAL
 GOVERNMENT AGENCIES.