

ML020500607.txt

LICENSEE: PUBLIC SERVICE ELECTRIC & GAS CO.
SITE: HOPE CREEK 1 EN NUMBER: 24858
DOCKET: 05000354 EVENT DATE: 01-11-93
RX TYPE: BWR EVENT TIME: 00:00
VENDORS: GE-4 NOTIFY DATE: 01-11-93
EMERGENCY CLASS: N/A REGION: 1 STATE: NJ TIME: 14:30
OPS OFFICER: JOSEPH SEBROSKY
10 CFR SECTION: CCCC 21.21 UNSPECIFIED PARAGRAPH
UNIT SCRAM RX INIT INITIAL MODE CURR CURRENT MODE
CODE CRIT PWR PWR
1 N Y 100 POWER OPERATION 100 POWER OPERATION

THE LICENSEE IS MAKING THIS NOTIFICATION DUE TO PROBLEMS IT FOUND WITH A REPLACEMENT PUMP FOR A DIESEL GENERATOR ENGINE DRIVEN FUEL OIL PUMP.

DURING THE RECENT HOPE CREEK OUTAGE THE ENGINE DRIVEN FUEL OIL PUMP ASSOCIATED WITH THE 'B' EDG WAS REPLACED. DURING POST INSTALLATION TESTING LOW FUEL OIL DISCHARGE PRESSURE WAS OBSERVED. INVESTIGATION INTO THE CAUSE OF THE LOW PUMP DISCHARGE PRESSURE REVEALED THAT PLUGS AND 'O' RING GASKETS WERE INSTALLED IN A CONFIGURATION TO SUPPORT THE OPERATION OF A FUEL OIL PUMP WITH A CLOCKWISE ENGINE ROTATION. HOWEVER THE PLUGS SHOULD HAVE BEEN INSTALLED TO SUPPORT A COUNTER-CLOCKWISE ROTATION. THE REPLACEMENT PUMP WAS SUPPLIED BY COLT INDUSTRIES FAIRBANKS MORSE ENGINE DIVISION, BELOIT, WI.

THE PLUGS AND ASSOCIATED 'O' RINGS WERE REPOSITIONED TO SUPPORT THE COUNTER-CLOCKWISE ENGINE ROTATION AND THE EDG WAS SATISFACTORILY RETESTED. IF THE PROBLEM HAD NOT BEEN RECTIFIED THE LICENSEE'S ENGINEERING EVALUATION CONCLUDED THAT THE LOW DISCHARGE PRESSURE COULD RESULT IN REDUCED LUBRICATION AND COOLING. IT IS THE LICENSEE'S OPINION THAT THE EDG WOULD HAVE FAILED IF LEFT RUNNING IN THIS MANNER. THE LICENSEE CONCLUDED THAT THIS DEVIATION COULD CREATE A SUBSTANTIAL SAFETY HAZARD AND IS REPORTABLE IN ACCORDANCE WITH 10CFR21.