LICENSEE EVENT REPORT UPDATED LER-PREVIOUS REPORT DATE 12-03-82
CONTROL BLOCK:
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CON'T BEPORT LLG 0 5 0 0 0 3 1 5 0 1 1 2 3 8 2 0 0 3 1 7 8 3 0 SOURCE 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80
EVENT DESCRIPTION AND PROBABLE CONSEQUENCES 10 DURING ROUTINE SURVEILLANCE TESTING OF THE ESSENTIAL SERVICE WATER SYSTEM, IT WAS
DISCOVERED THAT THE MOTOR OPERATED VALVE (WMO-753) TO THE WEST TURBINE DRIVEN
AUXILIARY FEED PUMP WOULD NOT OPEN. THIS EVENT WAS NON-CONSERVATIVE WITH RESPECT
TO TECHNICAL SPECIFICATION 3.7.1.2. THE PUBLIC HEALTH AND SAFETY WERE NOT AFFECTED.
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SYSTEM CAUSE CAUSE COMPONENT CODE COMP VALVE Image: Subcode Image: Subcode Image: Subcode Image: Subcode Image: Subcode Subcode<
Image: Second state 12 13 18 19 20 Image: Second state Second state Second state Second state Second state Second state Image: Second state Second state Second state Second state Second state Second state Image: Second state Second state Second state Second state Second state Second state Image: Second state Second state Second state Second state Second state Second state Image: Second state Second state Second state Second state Second state Second state Image: Second state Second state Second state Second state Second state Second state Image: Second state Second state Second state Second state Second state Second state Image: Second state Second state Second state Second state Second state Second state Image: Second state Second state Second state Second state Second state Second state Image: Second state Second state Second state Second state Second state Second state Image: Second state Second state Second state Second state Second sta
ACTION FUTURE EFFECT SHUTDOWN HOURS 22 23 24 26 27 28 29 30 31 32 ACTION FUTURE EFFECT SHUTDOWN HOURS 22 ATTACHMENT NPRD-4 PRIME COMP. COMPONENT X 13 G 19 Z 20 Z 21 01 01 01 01 13 23 Z 25 Z 9
CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)
DRIVEN AUXILIARY FEED PUMP ROOM WERE OPERATING IN A REVERSED MANNER. THIS RESULTED
IN THE VALVE MOTOR BEING DAMAGED. THE MOTOR FOR WMO-753 WAS REPLACED, AND THE
PHASING CORRECTED. THE EQUIPMENT WAS TESTED, VERIFIED TO BE OPERATING CORRECTLY AND
RETURNED TO SERVICE. (SEE ATTACHED SUPPLEMENT)
FACILITY STATUS * POWER OTHER STATUS 30 METHOD OF DISCOVERY DISCOVERY DESCRIPTION 32 1 5 1 0 0 29 NA B 31 SURVEILLANCE TEST 30
ACTIVITY CONTENT 12 13 44 45 46 80 RELEASED OF RELEASE AMOUNT OF ACTIVITY 35 10 10 10 10 0F RELEASE 36 80
PERSONNEL EXPOSURES NUMBER 1 7 8 9 11 12 38 DESCRIPTION 39 NA NA
PERSONNEL INJURIES NUMBER DESCRIPTION (4) NA
LOSS OF OR DAMAGE TO FACILITY (1)
PUBLICITY ISSUED DESCRIPTION (45) 80 PDR ADOCK 05000315 PDR ADOCK 05000315 PDR ADOCK 05000315 PDR ADOCK 05000315 PDR ADOCK 05000315 PDR ADOCK 05000315
NAME OF PREPARER R. A. PALMER PHONE 616-465-5901

ATTACHMENT TO LER#82-101/01X-1 SUPPLEMENT TO CAUSE DESCRIPTION

INVESTIGATION REVEALED THAT THE MOTOR OPERATED VALVE WMO-753 AND THE EXHAUST FAN 1-HV-AFP-T2 FOR THE TURBINE DRIVEN AUXILIARY FEED PUMP ROOM WERE OPERATING IN A REVERSED MANNER. THIS RESULTED IN THE VALVE MOTOR BEING DAMAGED. THE CAUSE OF THE MOTOR AND THE FAN OPERATING BACKWARDS WAS FOUND TO BE AN INSTALLATION ERROR WHICH OCCURRED DURING THE REPLACEMENT OF A FEEDER CABLE CAUSING THE PHASING TO BE INCORRECT. THIS ERROR REMAINED UNDETECTED DUE TO THE METHOD OF SUBSEQUENT RETESTING PERFORMED.

THE DESIGN CHANGE COORDINATOR AND THE ELECTRICAL FIELD ENGINEER, INVOLVED WITH THE CABLE CHANGE, WERE AWARE OF THE IMPORTANCE OF PROPER PHASING. THE ELECTRICAL FIELD ENGINEER DID VERIFY WHAT HE THOUGHT WAS THE CORRECT ROTATION ON THE EXHAUST FAN 1-HV-AFP-T2.

THE MOTOR FOR WMO-753 WAS REPLACED, AND THE PHASING CORRECTED. THE EQUIPMENT WAS TESTED, VERIFIED TO BE OPERATING CORRECTLY AND RETURNED TO SERVICE. TO PREVENT A RECURRENCE, PORTIONS OF THE EXISTING MAINTENANCE PROCEDURES 12 MHP 5021.082.004 "CABLE REPLACEMENT" AND 12 MHP 5021.082.005 "NEW INSTALLATION OF CABLES," HAVE BEEN ADDED TO THE ELECTRICAL CONTRACTOR QA/ QC MANUAL. THIS WILL ENSURE THAT THE INSTALLATION PROCEDURES OF NEW OR EXISTING CABLES WILL BE UNIFORM BETWEEN PLANT PERSONNEL AND THE SITE CONTRACTORS.