| REGULAT | Y INFORMATION | | TEM (RIDS) | |
|--|---|--|--------------|-----------|
| ACCESSION NBR:7903210009 FACIL:50=305 KEWAUNEE NL AUTH.NAME AUTHOR RUITER.G.H. YANNEE RECIP.NAME RECIPI RECIP.NAME RECIPI | JCLEAR POWER F AFFILIATION ATOMIC EVENT LENT AFFILIATI | PLANT, WISCONSIN PL Teco, wpsc | JBLIC SERVIO | |
| | L GENERATOR 1 St.Caused by E | A FAILED TO START DROKEN ROTOR VANE 1 | DURING | |
| DISTRIBUTION CODE: A002S TITLE: INCID I+E-3 CY5 AU NOTES: | | | | <u>t </u> |
| | | | | |
| ID CODE/NAME | LTTR ENCL | RECIPIENT ID CODE/NAME | LTTR ENCL | |
| ID CODE/NAME ACTION: 05 BC ORB (INTERNAL: 01 REG FILE 09 ISE 14 TA/EDO 16 EEB 18 PLANT SYS BR 20 AD PLANT SYS 22 REAC SAFT BR 24 KREGER 26 AD/SITE ANAL 28 ACDENT ANLYS E JORDAN/IE | 4 4 | | | |
| INTERNAL: 01 REG FILE | 1 1 | 02 NRC PDR | 1 1 | ١ |
| 09 188 | 2 2 | 11 MPA | 3 3 | |
| 14 TAZEDO | 1 1 | 15 NOVAK/KNIEL | 1 1 | |
| 16 EEB | 1. 1 | 17 AD FOR ENGR | 1 1 | • |
| 18 PLANT SYS BR | 1 1 | 19 I&C SYS BR | 1 1 | |
| 20 AD PLANT SYS | 1 1 | . 21 AD SYS/PROJ | 1 1 | |
| 22 REAC SAFT BR | 1 1 | 23 ENGR BR | 1 1 | |
| 24 KREGER | 1 1 | 25 PWR SYS BR | 1 1 | |
| 26 AD/SITE ANAL | 1 1 | 27 OPERA LIC BR | 1 1 | |
| 28 ACDENT ANLYS | 1 1 | 29 AUX SYS BR | 1 1 | |
| E JORDAN/IE | 1 1 | | | |
| EXTERNAL: 03 LPDR | 1 1 | | 1 1 | |
| 29 ACRS | 16 16 | | | |
| | | | | |

MAR 2.3 1979

•

Aro 4 BD

TOTAL NUMBER OF COPIES REQUIRED: LTTR 46 ENCL 46



WISCONSIN PUBLIC SERVICE CORPORATION Public

P.O. Box 1200, Green Bay, Wisconsin 54305

Service

March 16, 1979

Mr. J. G. Keppler, Regional Director Office of Inspection & Enforcement Region III U.S. Nuclear Regulatory Commission 799 Roosevelt Road Glen Ellyn IL 60137

Dear Mr. Reppler:

Docket 50-305 Operating License DPR-43 Reportable Occurrence LER 79-004/03L-0

In accordance with the requirements of Technical Specifications, Section 6.9, the attached Licensee Event Report for reportable occurrence LER 79-004/03L-0 is being submitted.

Very truly yours,

E. R. Mathews

Vice President Power Supply & Engineering

d1

dupo \$ 7903210006

Attach.

cc: Dfr. Office of Inspection & Enforcement US NRC, Washington, D.C. 20555 Dir, Office of Mgt Info & Program Control US NRC, Washington, D.C. 20555



(7.77) LICENSEE EVENT REPORT (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION) (1)CONTROL BLOCK: 0 0 0 0 0 - 0 3 4 11 1 1 (4)(5) K N P 0 0 -0 (2) 1 LICENSE NUMBER CON'T 5 0 0 0 3 0 5 7 0 2 1 6 7 9 8 0 3 1 6 7 REPORT 60I L 0 1 SOURCE 68 69 EVENT DATE DOCKET NUMBER EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10) During steady full power operation D/G 1A failed to start during an operability test, 0 2 placing the facility under LCO TS 3.7.b.2. D/G 1B was tested to confirm operability. 03 Repairs to D/G 1A were completed within TS required time interval and the D/G was re-0.4 turned to service. D/G 1B was inspected for similar equipment problems and needed 0 5 Since one D/G and offsite power remained available during refurbishing was performed. 0 6 this occurrence, there was no effect on plant operation or public safety. 0 7 8 COMP. VALVE SUBCODE SYSTEM CAUSE CAUSE SUBCODE COMPONENT CODE SUBCODE CODE CODE X [(14] ΤI 01 R ÷Ε Ε B 01 (16) (13) 18 REVISION OCCURRENCE REPORT SEQUENTIAL LER/RO EVENT YEAR REPORT NO. CODE TYPE NO 3 0 9 0 0 4 0 \mathbf{L} [17] REPORT NUMBER 32 COMPONENT PRIME COMP. ATTACHMENT SUBMITTED NPRD-4 SHUTDOWN METHOD ACTION FUTURE ON PLANT HOURS (22) FORM SUB. SUPPLIER MANUFACT WI 2 N (25) 11 0 0 0 0 Y 23 Y (26) Z (21) (24) Ζ (18 G (19 (20) CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27) A broken rotor vane jammed the primary D/G air start motor. Since this condition 1 0 permitted air flow, a start signal was not generated for the secondary air start motor. 1 1 The D/G 1A air start motors were replaced and those for D/G 1B were refurbished. 1 2 Corrosion resulting from moisture in the startup air is believed to have contributed 3 to this failure. Revisions will be made to OPS and PM procedures intended to minimize 4 80 othis problem. METHOD OF DISCOVERY OTHER STATUS DISCOVERY DESCRIPTION (32) % POWER B (31) Operability Test 0 (29) NA E (28) 1 0 5 80 46 10 CONTENT AČTIVITY LOCATION OF RELEASE AMOUNT OF ACTIVITY (35) RELEASED OF RELEASE Z 33 Z 34 NA NA 80 10 11 PERSONNEL EXPOSURES DESCRIPTION (39) NUMBER (37) Z (38) NA 0 0 0 80 PERSONNEL INJURIES DESCRIPTION (41) NUMBER 0 0 (40) NA 0 8 80 LOSS OF OR DAMAGE TO FACILITY (43) TYPE DESCRIPTION Z (42) NA 9 80 10 NRC USE ONLY PUBLICITY DESCRIPTION (45) UED 917-9 N (44) NA 69 68 80 10 PHONE: (414) 433-1329 G. H. Ruiter NAME OF PREPARER _

AME OF PREPARER

ATTACHMENT TO LER 79-004/03L-0

Wisconsin Public Service Corporation Kewaunee Nuclear Power Plant Docket 50-305 Operating License DPR-43

Event Description

During steady full power operation D/G 1A failed to start during an operability test due to a failure of the air start motors. This placed the facility under LCO TS 3.7.b.2 and D/G 1B was tested as required to assure operability. Repairs to D/G 1A were completed and the D/G was tested and returned to service within the time interval specified by TS. During follow-up investigation, the air start motors on D/G 1B were inspected and needed refurbishment was performed. Since one D/G and off-site power remained available for the duration of this occurrence there was no effect on plant operation or public safety.

Cause Description and Corrective Actions

The rotor of the primary air start motor for D/G 1A failed such that a piece of a vane jammed the motor. Since this condition still permitted air flow through the motor, a signal was not initiated by the control logic to activate the secondary air start motor. The air start motors for D/G 1A were replaced and the D/G was tested and returned to service. Inspection of the air motors for D/G 1B indicated signs of wear and needed refurbishment was performed. The D/G 1A primary air start motor internals were found to be rusted. Moisture in the D/G startup air supply is believed to have contributed to this failure. Operations procedures have been revised to decrease the time interval between blow downs of the D/G startup air moisture content. The appropriate PM procedures will be revised to include inspection of the air start motor internals on a frequency intended to prevent future failures of this type.