DSB

WISCONSIN PUBLIC SERVICE CORPORATION

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

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. Keppler:

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

E. R. Mathews
Vice President
Power Supply & Engineering

dl

Attach.

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

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(7-77)

LICENSEE EVENT REPORT

CONTROL BLOCK: [1] (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1	W I K N P 1 (2)	0 0 - 0 0 0 0 0 - 0 0 (3)	4 1 1 1 1 (4)	(5)
7 8	9 LICENSEE CODE 14	15 LICENSE NUMBER 25	26 LICENSE TYPE 30	57 CAT 58

CON'T

0 1	REPORT SOURCE L (6)	0 5 0 0 0 3 0 5 (7)	0 2 1 6 7 9 (8)	0 3 1 6 7 9 (9)
7 8	60 61	DOCKET NUMBER 68	69 EVENT DATE 74	75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2	During steady full power operation D/G 1A failed to start during an operability test,
0 3	placing the facility under LCO TS 3.7.b.2. D/G 1B was tested to confirm operability.
0 4	Repairs to D/G 1A were completed within TS required time interval and the D/G was re-
0 5	turned to service. D/G 1B was inspected for similar equipment problems and needed
0 6	refurbishing was performed. Since one D/G and offsite power remained available during
0 7	this occurrence, there was no effect on plant operation or public safety.
0 8	

7 8 9 80

	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
0 9	E E (11)	E (12)	B (13)	M O T O R X (14)	Z (15)	Z (16)
7 8	9 10	11	12	13 18	19	20

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	7 9	—	0 0 4	/	0 3	L	—	0
	21 22	23	24 26	27	28 29	30	31	32

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
C (18)	G (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	Y (24)	N (25)	W 1 2 0 (26)
33	34	35	36	37 40	41	42	43	44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0	A broken rotor vane jammed the primary D/G air start motor. Since this condition
1 1	permitted air flow, a start signal was not generated for the secondary air start motor.
1 2	The D/G 1A air start motors were replaced and those for D/G 1B were refurbished.
1 3	Corrosion resulting from moisture in the startup air is believed to have contributed
1 4	to this failure. Revisions will be made to OPS and PM procedures intended to minimize this problem.

7 8 9 80

	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
1 5	E (28)	1 0 0 (29)	NA	B (31)	Operability Test
7 8	9	10 12	13 44	45 46	80

	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
1 6	Z (33)	Z (34)	NA	NA
7 8	9	10 11 44		45 80

	PERSONNEL EXPOSURES NUMBER	TYPE	DESCRIPTION (39)
1 7	0 0 0 (37)	Z (38)	NA
7 8	9 11	12 13	80

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	PERSONNEL INJURIES NUMBER	DESCRIPTION (41)
1 8	0 0 0 (40)	NA
7 8	9 11	12 80

	LOSS OF OR DAMAGE TO FACILITY TYPE (42)	DESCRIPTION (43)
1 9	Z	NA
7 8	9	10 80

	PUBLICITY ISSUED (44)	DESCRIPTION (45)	NRC USE ONLY
2 0	N	NA	
7 8	9	10 68	69 80

NAME OF PREPARER G. H. Ruiter PHONE: (414) 433-1329

GPO 917-926

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 receivers to once daily with the intent of minimizing the 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.