

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7905080527 DOC. DATE: 79/04/05 NOTARIZED: NO  
 FACIL: 50-287 OCONEE NUCLEAR STATION, UNIT 3, DUKE POWER CO.  
 AUTH. NAME: LEWIS, S.R. AUTHOR AFFILIATION: DUKE POWER CO.  
 RECIP. NAME: RECIPIENT AFFILIATION: REGION 2, ATLANTA, OFFICE OF THE DIRECTOR

DOCKET #  
 05000287

SUBJECT: LER 79-009/03L-0 ON 790404: DURING PERFORMANCE TEST, REACTOR  
 BLDG SPRAY PUMP LEAKED OIL FROM CASING & WAS DECLARED  
 INOPERABLE. CAUSED BY INCORRECTLY INSTALLED BEARING COVER.  
 PUMP REPAIRED & RETURNED TO SVC.

DISTRIBUTION CODE: A001S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 7+3  
 TITLE: GENERAL DISTRIBUTION FOR AFTER ISSUANCE OF OPERATING LIC

NOTES: M. CUNNINGHAM - ALL AMENDS TO FSAR & CHANGES TO TECH SPECS.

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
ACTION:	05 BC ORB#4	7 7		
INTERNAL:	01 REG FILE	1 1	02 NRC PDR	1 1
	12 I&E	2 2	14 TA/EDO	1 1
	15 CORE PERF BR	1 1	16 AD SYS/PROJ	1 1
	17 ENGR BR	1 1	18 REAC SFTY BR	1 1
	19 PLANT SYS BR	1 1	20 EEB	1 1
	21 EFLT TRT SYS	1 1	22 BRINKMAN	1 1
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	23 ACRS	16 16		

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MAY 9 1979

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DUKE POWER COMPANY  
OCONEE UNIT 3

Report Number: RO-287/79-9

Report Date: May 4, 1979

Occurrence Date: April 4, 1979

Facility: Oconee Unit 3, Seneca, South Carolina

Identification of Occurrence: Reactor Building Spray Pump Inoperable

Conditions Prior to Occurrence: 99% Full Power

Description of Occurrence:

At 1353 on April 4, 1979, Reactor Building (RB) spray pump 3B was declared inoperable when oil leakage from the pump casing was observed during the conduct of a performance test. At 1250 on April 4 the pump had been removed from service in order to perform the test. The test was begun at 1310, but the oil leakage was observed and the pump was secured at 1336. The oil level was restored and the pump was restarted, but it was again secured at 1353 when the leakage continued, and the pump was declared inoperable. Oconee Nuclear Station Technical Specification 3.3.6(f) permits one RB spray pump to be removed from service for up to 72 hours provided all three RB cooling units are operable. Thus, although the inoperability of RB spray pump 3B was of no significance with respect to safety, it did constitute operation of the unit in a degraded mode permitted by a limiting condition for operation, and must therefore be reported pursuant to Technical Specification 6.6.2.1.b(2). The pump was partially disassembled in order to examine the oil seal mechanism, and it was discovered that the pump bearing cover had been installed incorrectly, resulting in an improper oil seal. The pump was reassembled correctly, and the performance test was successfully completed at 1655. At 1830 the pump was declared operable and returned to service.

Apparent Cause of Occurrence:

Investigation of the oil leakage revealed that the spray pump bearing cover had been incorrectly installed, resulting in an improper oil seal. A review of the maintenance procedure disclosed that it did not include a description of the proper method for installing the bearing cover.

Analysis of Occurrence:

It has been shown that in the unlikely event of a design basis loss-of-coolant accident, RB integrity will be maintained provided that one RB spray train and two cooling units are operable. Therefore, the Technical Specifications permit one spray pump to be out of service for up to 72 hours provided the other pump and all three cooling units are operable. RB spray pump 3A had been tested and found operable immediately prior to initiating the test of spray pump 3B. In addition, all three RB cooling units were operable. Since spray pump 3B was

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declared operable less than 6 hours after it was removed from service for testing, the requirements of Technical Specification 3.3.6(f) were satisfied. Thus, safe operation of the unit was not affected, and the health and safety of the public were not endangered.

Corrective Action:

When the oil leakage was first observed, spray pump 3B was secured and oil was added. However, the leakage continued when the pump was restarted, so the pump was partially disassembled. The pump bearing cover was discovered to have been installed incorrectly. The pump was reassembled, and it operated properly. The maintenance procedure used to assemble the pump will be revised by May 15, 1979 to include a description of the proper method for installing the bearing cover.

## LICENSEE EVENT REPORT

EXHIBIT A

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

01	S	C	N	E	E	3	2	0	0	-	0	0	0	0	-	0	0	3	4	1	1	1	1	4	1	5								
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33								
LICENSEE CODE													LICENSE NUMBER												LICENSE TYPE								57 CAT 58	

CONT

01	L	5	0	5	1	0	0	0	2	8	7	7	0	4	1	0	4	7	1	9	8	0	5	1	0	4	7	1	9	9															
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38														
REPORT SOURCE		DOCKET NUMBER																												EVENT DATE								REPORT DATE							

## EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

On April 4, 1979 Reactor Building spray pump 3B was declared inoperable when oil leakage from the pump casing was discovered during a performance test. The pump was repaired and returned to service less than 6 hours after the test was begun. In addition, the other spray pump and all three RB cooling units were operable. Thus, this incident was of no significance with respect to safe operation of the unit, and the health and safety of the public were not affected.

09	S	C	D	Z	P	U	M	P	X	X	B	Z	7	9	0	0	9	0	3	L	0	1	7	5																													
7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33	34	35	36	37	38																						
SYSTEM CODE			CAUSE CODE			CAUSE SUBCODE			COMPONENT CODE				COMP. SUBCODE		VALVE SUBCODE		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.																												
LER/RO REPORT NUMBER		ACTION TAKEN																												FUTURE ACTION		EFFECT ON PLANT		SHUTDOWN METHOD		HOURS		ATTACHMENT SUBMITTED		NPRO-4 FORM SUB.		PRIME COMP. SUPPLIER		COMPONENT MANUFACTURER									
17		18																												19		20		21		22		23		24		25		26									
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13		34																												35		36		37		38		39		40		41		42		43		44		45			
CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)																																																					

Partial disassembly of the pump revealed that the pump bearing cover had been incorrectly installed. The pump was reassembled correctly, and the performance test was successfully completed. The maintenance procedure used to assemble the pump will be revised by May 15, 1979 to include instructions for correctly installing the bearing cover.

15	E	0	9	9	NA	B	Performance Test
7	8	9	10	11	12	13	14
FACILITY STATUS		% POWER		OTHER STATUS		METHOD OF DISCOVERY	
28		29		30		31	
16		Z		Z		NA	
7	8	9	10	11	12	13	14
ACTIVITY CONTENT		RELEASED OF RELEASE		AMOUNT OF ACTIVITY		LOCATION OF RELEASE	
32		33		34		35	
17		0		0		0	
7	8	9	10	11	12	13	14
PERSONNEL EXPOSURES		NUMBER		TYPE		DESCRIPTION	
37		38		39		40	
18		0		0		0	
7	8	9	10	11	12	13	14
PERSONNEL INJURIES		NUMBER		DESCRIPTION		LOSS OF OR DAMAGE TO FACILITY	
40		41		42		43	
19		Z		NA		NA	
7	8	9	10	11	12	13	14
PUBLCITY		ISSUED		DESCRIPTION		NRC USE ONLY	
44		45		46		47	
20		N		NA		NA	
7	8	9	10	11	12	13	14
NAME OF PREPARER		S. R. Lewis		PHONE:		(704) 373-8285	
48		49		50		51	