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REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9309160057 DOC. DATE: 93/09/03 NOTARIZED: NO DOCKET #
 FACIL: 50-261 H.B. Robinson Plant, Unit 2, Carolina Power & Light C 05000261
 AUTH. NAME AUTHOR AFFILIATION
 CROOK, D. Carolina Power & Light Co.
 FLANAGAN, W.J. Carolina Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 93-009-00: on 930805, 24 h LCO entered, per TS 3.3.4.2 due to inability for SW Pump A to meet acceptance criteria of test for flow. Caused by equipment failure. Degraded SW Pump A removed & spare pump installed. W/930907 ltr.

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 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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Carolina Power & Light Company

ROBINSON NUCLEAR PLANT
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SEP 07 1993

Robinson File No: 13510C

Serial: RNP/93-2180
(10CFR50.73)

United States Nuclear Regulatory Commission
Attn: Document Control Desk
Washington, D. C. 20555

H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
LICENSEE EVENT REPORT NO. 93-009-00

Gentlemen:

The enclosed Licensee Event Report (LER), is submitted in accordance with
10 CFR 50.73 and NUREG 1022, Supplements No. 1 and 2.

Very truly yours,

William J. Flanagan, Jr.
William J. Flanagan, Jr.
Acting General Manager
H. B. Robinson S. E. Plant

RDC:dwm

Enclosure

cc: Mr. S. D. Ebnetter
Mr. W. T. Orders
INPO

15-004

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NRC FORM 366 (5-92)				U.S. NUCLEAR REGULATORY COMMISSION				APPROVED BY OMB NO. 3150-0104 EXPIRES 5/31/95			
LICENSEE EVENT REPORT (LER)											
(See reverse for required number of digits/characters for each block)											
FACILITY NAME (1) H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT 2								DOCKET NUMBER (2) 05000 261		PAGE (3) 1 OF 3	
TITLE (4) TECH. SPEC. 3.0 ENTRY FOR SERVICE WATER PUMP OPERABILITY TESTING											
EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER	
08	05	93	93	-- 009 --	00	09	03	93	FACILITY NAME	DOCKET NUMBER	
OPERATING MODE (9)		N		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more) (11)							
POWER LEVEL (10)		100		20.402(b)		20.405(c)		50.73(a)(2)(iv)		73.71(b)	
				20.405(a)(1)(i)		50.36(c)(1)		50.73(a)(2)(v)		73.71(c)	
				20.405(a)(1)(ii)		50.36(c)(2)		50.73(a)(2)(vii)		OTHER	
				20.405(a)(1)(iii)		X		50.73(a)(2)(i)		50.73(a)(2)(viii)(A)	
				20.405(a)(1)(iv)				50.73(a)(2)(ii)		50.73(a)(2)(viii)(B)	
				20.405(a)(1)(v)				50.73(a)(2)(iii)		50.73(a)(2)(x)	
LICENSEE CONTACT FOR THIS LER (12)											
NAME DAVID CROOK, SR. SPECIALIST-COMPLIANCE								TELEPHONE NUMBER (Include Area Code) (803) 383-1179			
COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)											
CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS		CAUSE	SYSTEM	COMPONENT	MANUFACTURER	REPORTABLE TO NPRDS	
B	WAD	PUMP	J105	Y							
SUPPLEMENTAL REPORT EXPECTED (14)											
YES (If yes, complete EXPECTED SUBMISSION DATE).				N NO				EXPECTED SUBMISSION DATE (15)		MONTH DAY YEAR	
ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)											
<p>On August 5, 1993, H. B. Robinson was operating at one hundred percent power. At 1045 hours, following performance of Service Water (SW) system surveillance testing, a 24 hour Limiting Condition for Operation (LCO) was entered in accordance with Technical Specification (TS) 3.3.4.2, due to the inability for the "A" SW Pump to meet the acceptance criteria of the test for flow. TS 3.3.4.2 requires that, with one pump out of service, the remaining pumps be in continuous operation. In order to conduct additional maintenance activities for the "A" SW pump, the "B" pump was required to be secured from the service water header. At 1508 hours, the "B" pump was secured and TS 3.0 was entered in order to conduct troubleshooting activities for the "A" pump. Following testing, activities were initiated to replace the "A" pump. On August 6, 1993 at 0812 hours, following replacement activities, the "B" SW pump was again secured and TS 3.0 was entered in order to conduct post installation testing of the new pump. TS 3.0 was exited at 0840. At 0940 hours, following review and acceptance of the surveillance test data, the "A" SW pump was declared operable and the 24 hour LCO was exited.</p> <p>This report is submitted pursuant to 10 CFR 50.73(a)(2)(i)(B) as an operation in a condition prohibited by Technical Specifications.</p>											

NRC FORM 366A
(5-92)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104
EXPIRES 5/31/95LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)		PAGE (3)
H. B. ROBINSON, UNIT 2	05000261	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER
		93	-- 009 --	00
2 OF 3				

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

I. DESCRIPTION OF EVENT

On August 5, 1993, H. B. Robinson was operating at one hundred percent power. Operations Surveillance Test OST-302, "Service Water System Component Test" was in progress. At 1045 hours, a 24 hour Limiting Condition for Operation (LCO) was entered in accordance with Technical Specification 3.3.4.2, due to the inability to meet the acceptance criteria of the test for the "A" Service Water Pump. Following comparison of the test data with the allowable acceptance ranges, the deviation for the "A" pump fell within the REQUIRED ACTION RANGE for flow. The measured flow deviation was 7000 gpm versus the required minimum flow of 7277 gpm.

Technical Specification 3.3.4.2 requires that, with one service water pump out of service, the remaining systems be in continuous operation. In order to conduct maintenance activities for the "A" Service Water pump, the "B" pump was required to be secured from the service water header. At 1508 hours, Technical Specification 3.0 (eight hours to hot shutdown) was entered in order to conduct the necessary testing. At 1550 hours, the "A" Service Water pump was tested to determine if backleakage existed through the "B" pump discharge, or if the service water strainer blowdown could be the cause of the low flow condition seen in the initial test. The results of the test indicated that the "A" pump was degraded and required maintenance, and was therefore declared out of service. At 1557 hours, the "B" Service Water pump was realigned for service and the eight hour LCO for Technical Specification 3.0 was exited.

An investigation was initiated to determine the cause of the degraded flow condition. At 1635 hours, licensee Operations personnel authorized procedures to be implemented for "A" Service Water pump repair and/or replacement activities. The pump was subsequently removed, and a spare pump from stock was installed to replace the degraded pump. On August 6, 1993 at 0812 hours, following replacement activities, the "B" Service Water pump was again secured and Technical Specification 3.0 was entered in order to conduct the necessary post installation testing of the new pump. At 0840 hours, the "B" pump was restarted, and the LCO was exited. At 0940 hours, following review and acceptance of the surveillance test data, the "A" Service Water pump was declared operable and the 24 hour LCO was exited.

NRC FORM 366A
(5-92)

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED BY OMB NO. 3150-0104
EXPIRES 5/31/95LICENSEE EVENT REPORT (LER)
TEXT CONTINUATION

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE INFORMATION AND RECORDS MANAGEMENT BRANCH (MNBB 7714), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555-0001, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)			PAGE (3)
H. B. ROBINSON, UNIT 2	05000261	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	3 OF 3
		93	-- 009 --	00	

TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

II. CAUSE OF EVENT

The cause of this event is attributed to component failure. The "A" Service Water pump had degraded to an unacceptable level.

III. ANALYSIS OF EVENT

This event had no significant impact on plant safety. The basis of Technical Specification 3.3 states that "For a single component to be inoperable does not negate the ability of the system to perform its function, but reduces the redundancy provided in the system design and thereby limits the ability to tolerate additional equipment failures."

In accordance with NUREG 1022, Supplement No. 1, this event is reportable pursuant to 10 CFR 50.73(a)(2)(1)(B) as an operation in a condition prohibited by the plant's Technical Specifications.

IV. CORRECTIVE ACTIONS

The degraded "A" Service Water pump was removed, and a spare pump from stock was installed. The degraded pump was shipped to the manufacturer for refurbishment and for the failure mechanism to be identified. Additional corrective actions will be taken with respect to the other service water pumps as determined necessary by the failure analysis.

V. ADDITIONAL INFORMATION

1. Failed Component Information

The "A" Service Water Pump is model 16PS, manufactured by Johnson Pump Co.

2. Previous Similar Events

None