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REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 9211020323 DOC. DATE: 92/10/24 NOTARIZED: NO DOCKET #
 FACIL: 50-261 H.B. Robinson Plant, Unit 2, Carolina Power & Light Co 05000261
 AUTH. NAME AUTHOR AFFILIATION
 CROOK, C.E. Carolina Power & Light Co.
 CHAMBERS, R.H. Carolina Power & Light Co.
 RECIP. NAME RECIPIENT AFFILIATION

SUBJECT: LER 92-019-00: on 920924, discovered that "A" train not operating properly. Cause of event unknown. Suppl to rept will be provided to describe results of investigation & C/A will be formulated as appropriate. W/921024 ltr.

DISTRIBUTION CODE: IE22T COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 4
 TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc.

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	NRR/DET/EMEB 7E	1 1	NRR/DLPQ/LHFB10	1 1
	NRR/DLPQ/LPEB10	1 1	NRR/DOEA/OEAB	1 1
	NRR/DREP/PRPB11	2 2	NRR/DST/SELB 8D	1 1
	NRR/DST/SICB8H3	1 1	NRR/DST/SPLB8D1	1 1
	NRR/DST/SRXB 8E	1 1	<u>REG FILE</u> 02	1 1
	RES/DSIR/EIB	1 1	RGN2 FILE 01	1 1
EXTERNAL:	EG&G BRYCE, J.H	2 2	L ST LOBBY WARD	1 1
	NRC PDR	1 1	NSIC MURPHY, G.A	1 1
	NSIC POORE, W.	1 1	NUDOCS FULL TXT	1 1

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Carolina Power & Light Company

ROBINSON NUCLEAR PROJECT DEPARTMENT
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OCT 26 1992

Robinson File No: 13510C

RNPD/92-2850
(10CFR50.73)

United States Nuclear Regulatory Commission
Attn: Document Control Desk
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H. B. ROBINSON STEAM ELECTRIC PLANT, UNIT NO. 2
DOCKET NO. 50-261
LICENSE NO. DPR-23
LICENSEE EVENT REPORT NO. 92-019-00

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,

R. H. Chambers
General Manager
H. B. Robinson S. E. Plant

RDC:sgk

Enclosure

cc: Mr. S. D. Ebnetter
Mr. L. W. Garner
INPO

200005

9211020323 921024
PDR ADOCK 05000261
S PDR

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11

EXPIRES: 4/30/92

LICENSEE EVENT REPORT (LER)

ESTIMATED BURDEN PER RESPONSE TO COMPLY WITH THIS INFORMATION COLLECTION REQUEST: 50.0 HRS. FORWARD COMMENTS REGARDING BURDEN ESTIMATE TO THE RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

FACILITY NAME (1)

H. B. ROBINSON UNIT NO. 2

DOCKET NUMBER (2)

05000261

PAGE (3)

1

TITLE (4)

TECHNICAL SPECIFICATION VIOLATION DUE TO MODE CHANGE WITH WCCU-1A INOPERABLE

EVENT DATE (5)			LER NUMBER (6)				REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)	
MONTH	DAY	YEAR	YEAR	SEQ. NO.	REV. NO.	MONTH	DAY	YEAR	FACILITY NAME	DOCKET NUMBER	
09	24	92	92	019	00	10	24	92		05000	
OPERATING MODE (9)		N		THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (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)(vi)	OTHER (Specify in Abstract and Text)					
			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, SENIOR SPECIALIST - REGULATORY COMPLIANCE

TELEPHONE NUMBER

(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

SUPPLEMENTAL REPORT EXPECTED (14)

EXPECTED SUBMISSION

MONTH

DAY

YEAR

X

YES (If yes, complete EXPECTED SUBMISSION DATE)

NO

DATE (15)

12**15****92**

ABSTRACT (Limit to 1400 spaces, i.e. approximately fifteen single space typewritten lines) (16)

On September 24, 1992, during an evaluation of Control Room Air Conditioning Systems Water Cooled Condensing Unit (WCCU) operation, licensee Technical Support Engineers discovered that the WCCU was designed such that both cylinders must be operable to carry the maximum load requirements under accident conditions for the Control Room. Since the second cylinder on WCCU-1A had been previously determined not to be functioning properly, the operability of the unit should have been considered on September 18, 1992, when Unit 2 was taken above 200 degrees during startup activities. The conservative position was taken that by not questioning operability of the equipment under such circumstances, a violation of Technical Specification (TS) 3.15.2 was created. This TS requires both trains of the Control Room Air Conditioning System to be operable prior to exceeding 200 degrees.

A Root Cause Investigation has been initiated to document this condition and to determine if the requirements for system operability are adequately defined. A supplement to this report will be submitted following completion of the investigation.

This report is submitted pursuant to 10 CFR 50.73(a)(2)(i)(B) as an operation or condition prohibited by the plant's Technical Specifications.

EXPIRES: 4/30/92

LICENSEE 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 RECORDS AND REPORTS MANAGEMENT BRANCH (P-530), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, 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)
		YEAR	SEQ NO.	REV NO.		
H. B. ROBINSON, UNIT NO. 2	05000261	92	-	019	- 00	2

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

I. DESCRIPTION OF EVENT

On August 24, 1992, H. B. Robinson Unit No. 2¹ as in hot shutdown condition and preparing for startup following maintenance activities. During unrelated troubleshooting activities on the Water Cooled Condensing Unit (WCCU) for the Control Room Air Conditioning System, licensee Corporate Engineering personnel discovered that the systems "A" train (WCCU-1A) was not operating properly. In addition, they found that the "cut-in" setpoint for the systems "B" train (WCCU-1B) was too low, causing the system to cycle between WCCU-1A and WCCU-1B frequently. During repair activities, it was determined that the Suction Pressure Controller for each unit needed to be replaced. Because at the time parts were only available for one unit, Engineering personnel decided to allow WCCU-1A to continue to run in its current condition since it was adequately controlling temperature and humidity in the Control Room, and to replace the Suction Pressure Controller for WCCU-1B.

On August 25, 1992, Unit No. 2 was taken to cold shutdown condition because the Limiting Condition for Operation for the Safety Injection System could not be met.² On September 18, 1992, repair activities had been completed for the Safety Injection System, and at 1642 hours Unit No. 2 was heated up above 200 degrees F.

On September 22, 1992, Operations personnel initiated an Operability Determination due to a High Return Air Temperature of 77 degrees F. Investigation of the concern discovered a failure of the internal components of the WCCU-1A compressor. The unit was declared inoperable, a new compressor was installed, and the unit was returned to service on September 23. However, during evaluation of the system for the Operability Determination, licensee Technical Support Engineers discovered that the WCCU was designed such that both cylinders must be operable to carry the maximum load requirements under accident conditions for the Control Room. Since the second cylinder on WCCU-1A was not functioning properly, the Unit may not have been operable on September 18, 1992, when Unit 2 was taken above 200 degrees during startup. As such, this condition would constitute a violation of Technical Specification (TS) 3.15.2, which requires both trains of the Control Room Air Conditioning System to be operable prior to exceeding 200 degrees.

¹H. B. Robinson Steam Electric Plant Unit No. 2, is a Pressurized Water Reactor in commercial operation since March, 1971.

²Licensee Event Report 92-018-00, September 22, 1992.

EXPIRES: 4/30/92

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR		SEQ NO.	REV NO.	
H. B. ROBINSON, UNIT NO. 2	05000261	92	-	019	- 00	3

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

II. CAUSE OF EVENT

Event investigation³ is on-going, and corrective actions are being formulated. To date, the investigation has identified that Field Revision 85 to Plant modification M-994, which installed the Control Room Air Conditioning System, did not adequately describe the design of the system and its requirements for two cylinders to be operable at all times. Therefore, no procedural changes were made to incorporate action statements for this logic, and subsequently no standards for Operator action during periods of equipment malfunction were provided.

III. ANALYSIS OF EVENT

This condition had no adverse impact on safety. The basis for TS 3.15.2 states that operability of the Control Room Air Conditioning System ensures that the Control Room can remain habitable during an accidental atmospheric radiation release. The TS does not address the cooling function as a requirement for Control Room habitability. The Safety Evaluation Report provided with TS Amendment No. 134, which revised specification 3.15.2, states in part that the safety function of the system is accomplished by providing fully redundant safety-related active components.

The cooling system was conservatively designed with each train capable of producing forty tons of service. With the compressors modified to function on two of four cylinders, the cooling capacity of the system was reduced to twenty tons each. Automatic swap over logic from the priority unit to the standby unit was provided in the design when the priority unit shuts down. Design calculations for the Control Room Air Conditioning System were based on the capacity of the originally installed cooling units, plus heat loading for equipment, and a safety factor of ten percent, for a total capacity of seventeen tons.

Since WCCU-1B remained operable throughout startup activities, adequate cooling was in fact provided. Additionally, if required, the WCCU-1A unit could have provided cooling to meet the ambient condition of the day if called upon, even though it may have been operating only on one cylinder at the time. This report is submitted pursuant to 10 CFR 50.73(a)(2)(i)(B) as an operation or condition prohibited by the plant's Technical Specifications.

IV. CORRECTIVE ACTIONS

The Root Cause Investigation is continuing. A Supplement to this report will be provided to describe the results of the investigation, and corrective actions will be formulated as appropriate.

V. ADDITIONAL INFORMATION

None

³Adverse Condition Report ACR 92-353