PRIORITY 1
(ACCELERATED RIDS PROCESSING)

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9412200181 DOC.DATE: 94/12/15 NOTARIZED: NO DOCKET #
FACIL:50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina 05000400
AUTH.NAME AUTHOR AFFILIATION
VERRILLI,M. Carolina Power & Light Co.
DONAHUE,J.W. Carolina Power & Light Co.
RECIP.NAME RECIPIENT AFFILIATION

SUBJECT: LER 94-006-00:on 941116,inter-cell float voltage for cell 50 of B-SB safety related battery between 2.13 volt limit & 2.07 min allowable value of TS 4.8-2.Caused by deficient test procedure & poor work practices.W/941215 ltr.

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

NOTES:Application for permit renewal filed. 05000400

	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL	RECIPIENT ID CODE/NAME	COPIES LTTR	COPIES ENCL
	PD2-1 PD	1	1	LE,N	1	1
INTERNAL:	ACRS	1	1	AEOD/SPD/RAB	2	2
	AEOD/SPD/RRAB	1	1	FILE CENTER 02	1	1
	NRR/DE/ECGB	1	1	NRR/DE/EELB	1	1
	NRR/DE/EMEB	1	1	NRR/DISP/PIPB	1	1
	NRR/DOPS/OECB	1	1	NRR/DRCH/HHFB	1	1
	NRR/DRCH/HICB	1	1	NRR/DRCH/HOLB	1	1
	NRR/DRSS/PRPB	2	2	NRR/DSSA/SPLB	1	1
	NRR/DSSA/SRXB	1	1	RES/DSIR/EIB	1	1
	RGN2 FILE 01	1	1			
EXTERNAL:	L ST LOBBY WARD	1	1	LITCO BRYCE,J H	2	2
	NOAC MURPHY,G.A	1	1	NOAC POORE,W.	1	1
	NRC PDR	1	1	NUDOCS FULL TXT	1	1

NOTE TO ALL "RIDS" RECIPIENTS:
PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 504-2083) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

FULL TEXT CONVERSION REQUIRED
TOTAL NUMBER OF COPIES REQUIRED: LTTR 28 ENCL 28

PRIORITY 1 DOCUMENT

AD

CP&L

Carolina Power & Light Company
Harris Nuclear Plant
PO Box 165
New Hill NC 27562

DEC 15 1994

Letter Number: HO-941060

U.S. Nuclear Regulatory Commission
ATTN: NRC Document Control Desk
Washington, DC 20555

SHEARON HARRIS NUCLEAR POWER PLANT UNIT 1
DOCKET NO. 50-400
LICENSE NO. NPF-63
LICENSEE EVENT REPORT 94-006-00

Gentlemen:

In accordance with Title 10 to the Code of Federal Regulations, the enclosed Licensee Event Report is submitted. This report fulfills the requirement for a written report within thirty (30) days of a reportable occurrence and is in accordance with the format set forth in NUREG-1022, September 1983.

Sincerely,

FOR JOE DONAHUE

J. W. Donahue
General Manager
Harris Plant

MV

Enclosure

cc: Mr. S. D. Ebneter (NRC - RII)
Mr. N. B. Le (NRC - PM/NRR)
Mr. S. A. Elrod (NRC - SHNPP)
Mr. W. R. Robinson

9412200181 941215
PDR ADOCK 05000400
S PDR

State Road 1134 New Hill NC

JE22

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)

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)	PAGE (3)
Shearon Harris Nuclear Plant-Unit #1	05000/400	1 OF 3

TITLE (4) Cell voltage verification required by Technical Specifications was not performed when the safety related B-SB station battery individual cell voltage values fell outside the allowable limits.

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
11	16	94	94	-- 006 --	00	12	15	94		05000
									FACILITY NAME	DOCKET NUMBER 05000

OPERATING MODE (9)	1	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)	(Specify in Abstract below and in Text, NRC Form 366A)
		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	TELEPHONE NUMBER (Include Area Code)
Michael Verrilli Sr. Specialist - Licensing	(919) 362-2303

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 DATE (15)	MONTH	DAY	YEAR
YES (If yes, complete EXPECTED SUBMISSION DATE).	X	NO				

ABSTRACT (Limit to 1400 spaces, i.e., approximately 15 single-spaced typewritten lines) (16)

On November 11, 1994, surveillance testing revealed that the inter-cell float voltage (ICV) for cell #50 of the B-SB safety related battery was between the 2.13 volt "limit" and 2.07 volt "minimum allowable value" of Technical Specification (TS) Table 4.8-2. The battery is still considered operable with the voltage value in this range, provided that the voltage is restored to greater than the 2.13 volt "limit" within 7 days. Discussion related to this testing requirement resulted in a review of documentation from recently performed surveillance tests. This review identified that cell recharge verification had not been performed within 7 days as required following testing the previous month on October 19, 1994. Upon identification of this condition, the control room staff declared the B-SB battery inoperable and commenced a single cell charge on cell #50 to raise the voltage back to acceptable levels. Subsequent investigation revealed nine additional instances where this verification had not been performed within 7 days as required. These occurrences constitute a violation of TS and are being reported per 10CFR50.73.

The cause of this condition was a combination of a deficient test procedure and poor work practices on the part of those involved in performing and reviewing the tests. Immediate corrective actions included restoring the cell voltage to an acceptable value, reviewing other battery testing procedures and revising the deficient maintenance surveillance test procedure. Additional actions will include training for maintenance personnel to enhance their understanding of procedural and TS requirements. There were no safety consequences as a result of this condition. Even though testing was not performed as required by TS, the battery ICV values were always above the "allowable level", therefore the battery was capable of performing it's safety function. There have been no previous reports submitted related to the failure to perform TS battery testing.

EVENT DESCRIPTION:

On November 16, 1994, with the plant operating in mode-1 at 100% power, maintenance surveillance testing (MST-E0011) on the B-SB safety related battery revealed that the inter-cell float voltage (ICV) for cell #50 was between the 2.13 volt "limit" and 2.07 volt "minimum allowable value" of Technical Specification (TS) Table 4.8-2. Per the notations of TS Table 4.8-2, any time the ICV falls into this range, the battery can still be considered operable provided that the voltage is restored to greater than the 2.13 volt "limit" within 7 days. Discussion related to these requirements resulted in a review of documentation from the previous month's surveillance test. This review identified that cell #50 was below 2.13 volts on October 19, 1994 and had not been restored as required, following testing. Upon identification of this condition, the control room staff declared the B-SB battery inoperable and commenced a single cell charge on cell #50 to raise the voltage back to acceptable levels. During the root cause investigation of this condition, a review was performed of completed MST-E0011 documentation packages, which exposed nine additional instances where this verification had not been performed within 7 days as required. These nine occurrences constitute a violation of TS and are being reported per 10CFR50.73.

CAUSE:

The cause of this event was a combination of a deficient maintenance surveillance test procedure and personnel error during the performance and review of surveillance testing. MST-E0011, the Safety Related Battery Quarterly Surveillance Test, includes a table and table notations that are very ambiguous. They have led to an unclear understanding of test acceptance criteria and of what actions are needed if values are obtained between the acceptance limits and minimum allowable values. Poor work practices on the part of personnel performing this testing were also noted. These work practices involved routinely working to the procedure data sheets instead of the contained step-by-step guidance. Personnel performing the tests also exhibited insufficient awareness of the impact of their actions. The review of completed test documentation, which is performed by electrical maintenance supervisory personnel, did not consistently identify that TS actions were required.

SAFETY SIGNIFICANCE:

There were no safety consequences as a result of this event. In all cases the obtained ICV values were above the minimum allowable value of TS table 4.8-2. Thus the battery was always capable of performing it's intended design and safety function.

CORRECTIVE ACTIONS:

1. Battery operability was restored on November 17, 1994 by performing a single cell charge that raised the ICV value of Cell #50 above 2.13 volts.

2. MST-E0011 has been revised to clarify the acceptance criteria and the actions needed when parameters fall between the TS "acceptance limit" and the "minimum allowable value".

3. Training will be provided for maintenance personnel that perform and review MST-E0011 to enhance their understanding of procedural and TS requirements.

EIIS INFORMATION:

N/A