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DOCKET # ACCESSION NBR:9006200088 DOC.DATE: 90/06/15 NOTARIZED: NO FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina 05000400 AUTHOR AFFILIATION AUTH.NAME SCHWABENBAUER Carolina Power & Light Co. Carolina Power & Light Co. RICHEY, R. RECIP. NAME RECIPIENT AFFILIATION SUBJECT: LER 90-014-00:on 900513, Tech Spec violation due to exceeded release rates caused by personnel error. W/9 ltr. DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR ENCL SIZE: TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc. 05000400 NOTES: Application for permit renewal filed. RECIPIENT COPIES RECIPIENT COPIES LTTR ENCL LTTR ENCL ID CODE/NAME ID CODE/NAME PD2-1 LA PD2-1 PD 1 1 1 BECKER, D INTERNAL: ACNW ACRS AEOD/DSP/TPAB AEOD/DOA 2 AEOD/ROAB/DSP 2 **DEDRO** 1 NRR/DET/EMEB9H3 NRR/DET/ECMB 9H 1 1 NRR/DLPQ/LHFB11 NRR/DLPQ/LPEB10 1 1 NRR/DOEA/OEAB11 1 NRR/DREP/PRPB11 2 2 NRR/DST/SELB 8D 1 1 NRR/DST/SICB 7E 1 1 NRR/DST/SPLB8D1 1 NRR/DST/SRXB 8E 1 1 REG FILE RES/DSIR/EIB 02 RGN2 FILE 01 1 EXTERNAL: EG&G STUART, V.A L ST LOBBY WARD 1 1 LPDR 1 NRC PDR NSIC MAYS, G 1 NSIC MURPHY, G.A 1 NUDOCS FULL TXT

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Carolina Power & Light Company

P. O. Box 165 . New Hill, N. C. 27562

JUN 1 5 1990

R. B. RICHEY Manager Harris Nuclear Project

Letter Number: HO-900105 (0)

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 90-014-00

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.

Very truly yours,

R. B. Richey, Manager Harris Nuclear Project

RBR:msb

Enclosure

cc: Mr. R. A. Becker (NRR)

Mr. S. D. Ebneter (NRC - RII)

Mr. J. E. Tedrow (NRC - SHNPP)

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APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92

EXPIRES: 4/30/92

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-830), U.S. NUCLEAR REGULATORY COMMISSION, WASHINGTON, DC 20555, AND TO THE PAPERWORK REDUCTION PROJECT (3150-0104), OFFICE OF MANAGEMENT AND BUDGET, WASHINGTON, DC 20503.

LICENSEE	EVENT	REPORT	(LER)
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DOCKET NUMBER (2) PAGE (3)																		
FACILITY NAME (1)																		
SHEARON HARRIS NUCLEAR POWER PLANT UNIT 1 0 5 0 0 10 10 10 10 10 13																		
TITLE (4) TECHNICAL SPECIFICATION VIOLATION DUE TO EXCEEDED RELEASE RATES																		
CAUSED BY PERSONNEL ERROR																		
EVENT DATE (5) LER NUMBER (6) REPORT DATE (7) OTHER FACILITIES INVOLVED (8)																		
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The plant was operating in Mode 1, Power Operation, at 100 percent reactor power on May 16, 1990. At 0800 hours it was discovered that two Liquid Radioactive releases initiated on May 13, 1990, from the Waste Evaporator Condensate Tanks were in excess of the flow rate specified on the release permits. The permits specified a release flow rate of 14.6 gallons per minute (gpm) maximum, which was less than the maximum pump capacity of 35 gpm.

The two separate releases made were at 29.9 gpm and 29.1 gpm. The releases were initiated by two separate operators.

The cause of the event was personnel error. The release permit clearly specified the flow rate to be used. However, both operators failed to recognize the restricted flow rate of 14.6 gpm for the release.

Corrective actions include requiring the operator to transcribe the maximum release rate from the discharge permit to the discharge log, requiring the cognizant Radwaste Shift Foreman to verify the maximum release rate prior to the discharge, and counselling of the appropriate personnel.

There were no safety consequences as a result of this event. Post-release calculations, using actual Cooling Tower blowdown dilution rates determined that no 10CFR20 or 10CFR50 limits were exceeded.

This event is being reporte! in accordance with 10CFR50.73(a) (2) (i) (B) as a Technical Specification violation.

NR	C	FO	RM	366A
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U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92

ESTIMATED BURDEN PER RESPONSE TO COMPLY WTH 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)
SHEARON HARRIS NUCLEAR POWER PLANT		YEAR SEQUENTIAL REVISION NUMBER	
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TEXT (If more space is required, use additional NRC Form 366A's) (17)

Description

The plant was operating in Mode 1, Power Operation at 100 percent reactor power on May 16, 1990. Liquid Radioactive release permits were issued for Waste Evaporator Condensate Tanks 1&2A and 1&2B on May 13, 1990. The release permits for both tanks limited the discharge flow rates to 14.6 gallons per minute (gpm) and assumed a minimum of 4000 gallons of Cooling Tower blowdown dilution flow. The releases were made at 0200 hours, with a duration of 235.0 minutes, and 2051 hours, with a duration of 207.0 minutes, by two separate Radwaste Control Operators. At 0800 hours on May 16, 1990, it was discovered that both releases were in excess of the flow rate specified on the release permits. The releases were made at 29.9 gpm and 29.1 gpm respectively.

Cause:

The cause of the event was personnel error. The release permits for both tanks clearly specified a release rate of 14.6 gpm, which is less than the maximum pump capacity of 35 gpm. Release of a Waste Evaporator Condensate Tank is an infrequent operation which employs the same release path as the Waste Monitor Tanks.

Analysis:

There were no safety consequences as a result of this event. Post-release calculations have determined that no 10CFR20 or 10CFR50 limits were exceeded because the Cooling Tower dilution flow was great enough to maintain the required dilution factor. The release permits specified a Cooling Tower blowdown flowrate of 4000 gpm and a dilution factor of 219.3. During both releases the Cooling Tower flow rate exceeded 7500 gpm, well above the required 4000 gpm specified on the permit, resulting in dilution factors of 258.6 and 273.3, which exceeded the required dilution factor of 219.3. However, if the Cooling Tower blowdown flow rate had been reduced during either release then 10CFR20 limits would have been exceeded.

This event is being reported in accordance with 10CFR50.73 (a) (2) (i) (B) as a Technical Specification violation.

There have been no previous similar events reported.

Corrective Action/Action to Prevent Recurrence:

1. Operators will be required to transcribe the maximum release rate from the discharge permit to the discharge log.

1	*****
a	INKC FORM 366A
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U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

APPROVED OMB NO. 3150-0104 EXPIRES: 4/30/92

EXPIRES: 4/3

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6) PAGE (3)	
SHEARON HARRIS NUCLEAR POWER PLANT		YEAR SEQUENTIAL REVISION NUMBER	
UNIT 1	0 15 10 10 10 1 410 10	910 - 011 4 - 0 0 013 05 0	13

TEXT (If more space is required, use additional NRC Form 306A's) (17)

Corrective Action/Action to Prevent Recurrence: (continued)

- 2. The cognizant Radwaste Shift Foreman will be required to verify the maximum release rate prior to the discharge.
- '3. Appropriate Radwaste personnel will be counselled emphasizing the need for attention to detail and correct implementation of written procedures.

EIIS Codes Information:

Waste Evaporator Condensate Tanks		WD
Cooling Tower	1	NN
Waste Monitor Tank		WD