

CATEGORY

#### REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR:9 FACIL:50-400 S	909160001 DOC. hearon Harris Nuc	DATE: 99/09/10 Lear Power Plan	NOTARIZED: NO ht, Unit 1, Carolina	DOCKET # 05000400
AUTH . NAME ·	AUTHOR AFFILI	ATION		
ELLINGTON, M.	Carolina Power	& Light Co.		
CLARK, B.H.	Carolina Power	& Light Co.	*	٩
RECIP.NAME	RECIPIENT AFF	LIATION	•	

SUBJECT: LER 99-007-00:on 990811, determined that CVIS ARMs high alarm setpoints were not within TS limit.Caused by not having procedure to verify if CVIS ARM high alarm setpoints were within TS requirements.Revised procedures.With 990910 ltr.

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NOTES: Application for permit renewal filed.

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Carolina Power & Light Company Harris Nuclear Plant P.O. Box 165 New Hill NC 27562

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U.S. Nuclear Regulatory Commission ATTN: NRC Document Control Desk Washington, DC 20555 Serial: HNP-99-139 10CFR50.73

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# SHEARON HARRIS NUCLEAR POWER PLANT UNIT 1 DOCKET NO. 50-400 LICENSE NO. NPF-63 <u>LICENSEE EVENT REPORT 1999-007-00</u>

Sir or Madam:

In accordance with 10CFR50.73, the enclosed Licensee Event Report is submitted. This report describes a condition which resulted in exceeding the requirements of Technical Specifications for Containment Ventilation Isolation Area Radiation Monitors.

Sincerely,

B. H. Clark General Manager Harris Plant

MSE/mse

. Enclosure

c: Mr. J. B. Brady (HNP Senior NRC Resident) Mr. R. J. Laufer (NRC-NRR Project Manager) Mr. L. A. Reyes (NRC Regional Administrator, Region II) 909160001 990910 DR ADDCK 05000400 PDR

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NRC FORM 366 U.S. NUCLEAR REGULATORY COMMISSION							APPROVED BY OMB NO. 3150-0104 EXPIRES 06/30/2001 Estimated burden per response to comply with this mandatory information									
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Ca	use of	this TS v	iolation:													
HN	IP did	not have a	procedure	requiremen	t to veri	ify C	VIS AR	M hig	h alarm	setpo	ints were	e within the re	equireme	ents of T	S.	
Co	rrecti	ve actions	include:													
(1.)	) Revi	se the plan	t procedure	for startup	testing	follo	wing a 1	refueli	ng outag	ge to v	verify C	VIS ARM hig	h alarm	setpoints	sare	
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NRC FORM 366A

#### **U.S. NUCLEAR REGULATORY COMMISSION**

#### LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

FACILITY NAME (1)	DOCKET		PAGE (3)								
Harris Nuclear Plant, Unit 1	05000400	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	2.0	OF	2				
		1999	007	00							
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TEXT (If more space is required, use additional copies of NRC Form 366A) (17)

## I. DESCRIPTION OF EVENT

On August 11, 1999, with the Harris Nuclear Plant (HNP) at 100% power in Mode 1, HNP determined that containment ventilation isolation signal (CVIS) area radiation monitors (ARM) high alarm setpoints were not within the Technical Specifications (TS) limit of less than three times detector background at rated thermal power (TS 3.3.3.1, Table 3.3-6, Item 1.a.).

During the ongoing TS Surveillance Review Project, a member of HNP plant staff questioned the process for ensuring CVIS ARM high alarm setpoints did not exceed TS required values. The applicable system engineer compared the CVIS ARM high alarm setpoint values with the TS requirements and determined that the TS limit was exceeded. The main control room was notified and the containment purge system was isolated to containment as required by TS 3.3.3.1.

TS 3.3.3.1, Table 3.3-6, Item 1a requires the CVIS ARM Alarm/Trip setpoint to be less than or equal to three times detector background at Rated Thermal Power during modes 1, 2, 3 and 4. The setpoints had been set conservatively at approximately two times background to account for variations in background. However, the setpoints were not being checked periodically. Therefore, as background radiation decreased during core design changes a corresponding setpoint reduction was not made which resulted in the setpoints not being within the applicable TS requirements. HNP has estimated that the CVIS ARM have exceeded the TS limits since the beginning of cycle 8 in June 1997. Changes in core design made during refueling outage 7 reduced the background radiation levels in containment which caused the CVIS ARM high alarm setpoints to be greater than three times backgound.

### II. CAUSE OF EVENT

HNP did not have a procedure requirement to verify CVIS ARM high alarm setpoints were within the requirements of TS.

# III. SAFETY SIGNIFICANCE

The CVIS ARM were capable of initiating a containment ventilation isolation. While the alarm setpoints were not within the TS limits, they were well below the expected radiation levels following a design basis accident. Additionally, the containment ventilation isolation generated by a safety injection signal was not affected by the condition described in this LER. The function to isolate containment ventilation following a fuel handling accident in containment was not affected because the applicable alarm setpoints are set at 150 mr/hr in mode 6 per TS.

This report is being submitted pursuant to the criteria of 10CFR50.73(a)(2)(i) for any operation or condition prohibited by the plant's Technical Specifications.

### IV. CORRECTIVE ACTIONS

- 1. Revise the plant procedure for startup testing following a refueling outage to verify CVIS ARM high alarm setpoints are within TS limits.
- 2. Revise the plant procedure that implements the digital channel operational test to verify CVIS ARM high alarm setpoints are within TS limits.

### V. <u>SIMILAR EVENTS</u>

The CVIS ARM are the only TS radiation monitors that have an alarm based on background radiation. HNP has not previously reported a condition where TS were violated based on changing radiation background levels in containment.

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