ELERATED DISTRIBUTION DEMONSTRATION SYSTEM REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS) DOCKET # ACCESSION NBR:9106250064 DOC.DATE: 91/06/20 NOTARIZED: NO 05000400 FACIL: 50-400 Shearon Harris Nuclear Power Plant, Unit 1, Carolina AUTH.NAME AUTHOR AFFILIATION Carolina Power & Light Co. VERILLI,M. Carolina Power & Light Co. RICHEY, R.B. RECIPIENT AFFILIATION R RECIP.NAME Ĩ SUBJECT: LER 91-009-00:on 910521, AFW actuation occurred due to steam generator Hi-Hi Level alarm inadvertently generated during troubleshooting. Caused by personnel error. Counseling for D technicians & reviewing incident.W/910620 ltr. S DISTRIBUTION CODE: IE22T COPIES RECEIVED:LTR ENCL SIZE: TITLE: 50.73/50.9 Licensee Event Report (LER), Incident Rpt, etc. Α 05000400 NOTES: Application for permit renewal filed. D

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NOTE TO ALL "RIDS" RECIPIENTS:

PLEASE HELP US TO REDUCE WASTE! CONTACT THE DOCUMENT CONTROL DESK, ROOM P1-37 (EXT. 20079) TO ELIMINATE YOUR NAME FROM DISTRIBUTION LISTS FOR DOCUMENTS YOU DON'T NEED!

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Carolina Power & Light Company

P.O. Box 165 • New Hill, N.C. 27562

R. B. RICHEY Vice President Harris Nuclear Project

> JUN 2 0 1991 Letter Number: H0-910092 (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 91-009-00

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 Vice President Harris Nuclear Project

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RBR:dmw

Enclosure

cc: Mr. S. D. Ebneter (NRC - RII) Ms. B. L. Mozafari (NRC - RII) Mr. J. E. Tedrow (NRC - SHNPP)

MEM/LER91-009/1/0S1

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NRC FOR	U.S. NUCLEAR REGULATORY COMMISSION						ION	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.							ARD RDS EAR D TO FICE								
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OPERATING THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR §: (Check one or more of the following) (11)																						
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ABSTRACT (Limit to 1400 speces, i.e., approximately fifteen single-space typewritten lines) (16)

ABSTRACT:

On 5/21/91, troubleshooting of the Steam Generator (SG) level instrumentation resulted in the generation of a Hi-Hi SG level signal. This caused a Feed Water Isolation Signal which by design tripped the running Main Feed Pump and started both motor driven Auxiliary Feed Water Pumps. The control room staff immediately took actions to verify proper system response and stabilize SG levels. The cause of this event was personnel error on the part of the maintenance personnel performing the trouble shooting. Corrective actions will consist of counseling the involved technicians, reviewing the incident with other appropriate personnel and developing a procedure that provides specific guidance for troubleshooting activities.

This condition is being reported as an unplanned Engineered Safety Feature Actuation in accordance with 10CFR50.73(a)(2)(iv).

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NRC-FORM 366A (6-89) LICENSEE EVENT REPORT 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 (PF.30), 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 Unit # 1	0 5 0 0 0 4 0 0	YEAR SEQUENTIAL REVISION NUMBER · 9 1 0 0 9 0 0	0 2 OF 0 3				

EVENT DESCRIPTION:

On 5/21/91 the plant was in Mode-2 following a refueling outage. Troubleshooting was being conducted on Steam Generator (SG) level instrument LT-475 to determine why its control room indication was reading approximately six percent higher than the other three channels. The associated bistables for LT-475 were in their tripped condition as required. Maintenance personnel verified that the transmitter and level loop had been recently calibrated with satisfactory results, so a differential pressure gauge was installed across the instrument to determine if the reference leg was adequately When the equalizing valve on LT-475 was opened, an unanticipated filled. depressurization occurred in the reference leg for LT-473. This was due to both instruments sharing a common reference leg. This depressurization resulted in an increase of the instruments level signal to its Hi-Hi setpoint. This caused a Feed Water Isolation Signal which by design tripped the running Main Feed Pump. Both motor driven Auxiliary Feed Water (AFW) pumps started as required. The control room staff took immediate actions to verify proper system response, stabilize SG levels and communicate with the personnel performing the trouble shooting. Test equipment was then removed from the level transmitter and all instrument valves were returned to there pre-test alignment.

There have been no previous reports submitted regarding an automatic AFW actuation due to personnel error.

CAUSE:

The cause of this event was personnel error on the part of the maintenance technicians trouble shooting the SG level instruments. The individuals involved were not aware that level instruments LT-475 and LT-473 had a common reference line. Had the Loop Calibration procedure, which includes instructions for removing and returning the transmitter to service, been utilized as a reference, this event may have been prevented.

SAFETY SIGNIFICANCE:

There were no significant safety consequences as a result of this event. The auxiliary feed water system started as required to supply adequate feed flow to the steam generators and provide for primary system heat removal.

This condition is being reported as an unplanned Engineered Safety Feature Actuation in accordance with 10CFR50.73(a)(2)(iv).

LICENSEE EVENT REPO	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.						
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CORRECTIVE_ACTIONS:

- 1. Individuals performing this activity and other members of the work crew have been counselled on this incident.
- 2. This event will be reviewed by additional maintenance personnel to enhance their awareness of instruments that have common reference lines and to ensure a complete understanding of what type of activities require the use of an approved plant procedure.
- 3. Additional procedural guidance will be developed to enhance troubleshooting activities.

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