

# REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 8708260031 DOC. DATE: 87/08/12 NOTARIZED: NO DOCKET #  
 FACIL: 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co. 05000270  
 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287  
 AUTH. NAME AUTHOR AFFILIATION  
 TUCKER, H. B. Duke Power Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 Document Control Branch (Document Control Desk)

SUBJECT: RD: on 870508, App R violation due to nonseparation of  
 redundant pressurizer level transmitters discovered. Caused  
 by failure to reroute one train of pressurizer level  
 instrumentation through penetration room.

DISTRIBUTION CODE: IE22D COPIES RECEIVED: LTR 1 ENCL 0 SIZE: 2  
 TITLE: 50.73 Licensee Event Report (LER), Incident Rpt, etc.

NOTES: AEOD/Ornstein: 1cy. 05000270  
 AEOD/Ornstein: 1cy. 05000287

	RECIPIENT ID CODE/NAME	COPIES LTTR ENCL		RECIPIENT ID CODE/NAME	COPIES LTTR ENCL
	PD2-3 LA	1		PD2-3 PD	1
	PASTIS, H	1			
INTERNAL:	ACRS MICHELSON	1		ACRS MOELLER	2
	AEOD/DOA	1		AEOD/DSP/NAS	1
	AEOD/DSP/ROAB	2		AEOD/DSP/TPAB	1
	DEDRO	1		NRR/DEST/ADS	1
	NRR/DEST/CEB	1		NRR/DEST/ELB	1
	NRR/DEST/ICSB	1		NRR/DEST/MEB	1
	NRR/DEST/MTB	1		NRR/DEST/PSB	1
	NRR/DEST/RSB	1		NRR/DEST/SGB	1
	NRR/DLPQ/HFB	1		NRR/DLPQ/QAB	1
	NRR/DOEA/EAB	1		NRR/DREP/RAB	1
	NRR/DREP/RPB	2		NRR/PMAS/ILRB	1
	<u>REG FILE</u> 02	1		RES DEPY GI	1
	RES TELFORD, J	1		RES/DE/EIB	1
	RGN2 FILE 01	1			
EXTERNAL:	EG&G GROH, M	5		H ST LOBBY WARD	1
	LPDR	1		NRC PDR	1
	NSIC HARRIS, J	1		NSIC MAYS, G	1
NOTES:		1			

Add: NRR we Rmeil, J  
 NRR WHITNEY, L

TOTAL NUMBER OF COPIES REQUIRED: LTTR 46 ENCL 0

**DUKE POWER COMPANY**

P.O. BOX 33189

CHARLOTTE, N.C. 28242

HAL B. TUCKER  
VICE PRESIDENT  
NUCLEAR PRODUCTION

TELEPHONE  
(704) 373-4531

August 12, 1987

U.S. Nuclear Regulatory Commission  
Document Control Desk  
Washington, D.C. 20555

Subject: Oconee Nuclear Station, Units 2 and 3  
Docket Nos. 50-270, -287  
Pressurizer Level Transmitters

Gentlemen:

On May 6, 1987 at 1500 hours, a 10CFR50, Appendix R violation due to the non-separation of redundant pressurizer level transmitters was discovered on Units 2 and 3. This incident was not determined to be reportable per 10CFR 50.73 requirements, however Duke is providing the proceeding description, resolution, and analysis of the occurrence on a voluntary basis.

Oconee Units 2 and 3 both have three pressurizer level transmitters LT4P1, LT4P2, and LT4P3 which feed the Integrated Control System (ICS) as well as LT72 which feeds the Standby Shutdown Facility (SSF). All transmitters are currently functional, however all cables are routed through West side penetrations. Therefore, there is no guarantee that pressurizer level indication would be available following a fire in the West penetration room.

Nuclear Station Modification (NSM) ON-1012 Rev. 2 part H-24 was to have rerouted transmitter LT4P1 through an East penetration (EA7), however this NSM was only partially completed. The affected drawings were updated to show the job completed although part H-24 only pulled the necessary cables. No package was ever done to terminate the cables and check out the transmitter.

The proposed resolution to this incident is to complete the modification by terminating the previously pulled cables and checking out the transmitter. This work will be performed during the End of Cycle (EOC) 9 refueling outage for Unit 2 and the EOC 10 refueling outage for Unit 3.

This Appendix R violation occurred due to the failure to reroute one train of pressurizer level instrumentation through the East penetration room. Consequently, there is no guarantee that pressurizer level indication would be available following a fire in the West penetration room. For this type of event, the plant would be taken to hot shutdown using balance of plant, not SSF equipment.

Pressurizer level provides the only direct indication of primary system inventory. However, information about Reactor Coolant System (RCS) inventory could be inferred using available instrumentation, specifically RCS temperature and pressure.

8708260031 870812  
PDR ADOCK 05000270  
S PDR

NRN weber, J  
NRN WHITNEY, L  
ADD.

IE 22

10/10

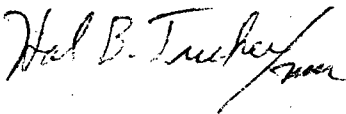
Document Control Desk

August 12, 1987

Page 2

In this scenario at least one High Pressure Injection (HPI) pump is available to provide significant makeup flow in the event that inventory reduction is indicated. Excessive inventory, although undesirable, could be accommodated since the HPI pump can replace the water which would be lost if a PORV sticks open. Therefore, pressurizer level instrumentation is not absolutely necessary for achieving hot shutdown using balance of plant equipment following an Appendix R fire.

Very truly yours,



Hal B. Tucker

PJN/218/jgc

Attachment

xc: Dr. J. Nelson Grace  
Regional Administrator  
U.S. Nuclear Regulatory  
Commission - Region II  
101 Marietta St. NW  
Suite 2900 - Atlanta, GA 30323

Ms. Helen Pastis  
Office of Nuclear Reactor Regulation  
U.S. Nuclear Regulatory Commission  
Washington, D.C. 20555

Mr. J.C. Bryant  
NRC Resident Inspector  
Oconee Nuclear Station