

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

ACCESSION NBR: 7906260533 DOC. DATE: 79/06/21 NOTARIZED: NO DOCKET #
 FACIL: 50-270 Oconee Nuclear Station, Unit 2, Duke Power Co. 05000270
 AUTH. NAME AUTHOR AFFILIATION
 LEWIS, S.R. Duke Power Co.
 RECIP. NAME RECIPIENT AFFILIATION
 Region 2, Atlanta, Office of the Director

SUBJECT: LER 79-003/03L-0 on 790522: reactor protection sys channel D was determined to be above specified limit of 4.0 psig. Caused by setpoint drift. Switches recalibrated for setpoint of 3.5 psig & will be verified at six-month intervals.

DISTRIBUTION CODE: A002S COPIES RECEIVED: LTR 1 ENCL 1 SIZE: 173
 TITLE: INCIDENT REPORTS

NOTES: M. CUNNINGHAM - ALL AMENDS TO FSAR & CHANGES TO TECH SPECS.

ACTION:	RECIPIENT ID CODE/NAME	COPIES		RECIPIENT ID CODE/NAME	COPIES	
		LTR	ENCL		LTR	ENCL
	05 BC ORB #4	4	4			
INTERNAL:	01 REG FIDE	1	1	02 NRC PDR	1	1
	09 I&E	2	2	11 MPA	3	3
	14 TA/EDO	1	1	15 NOVAK/KNIEL	1	1
	16 EEB	1	1	17 AD FOR ENGR	1	1
	18 PLANT SYS BR	1	1	19 I&C SYS BR	1	1
	20 AD PLANT SYS	1	1	21 AD SYS/PROJ	1	1
	22 REAC SAFT BR	1	1	23 ENGR BR	1	1
	24 KREGER	1	1	25 PWR SYS BR	1	1
	26 AD/SITE ANAL	1	1	27 OPERA LIC BR	1	1
	28 ACIDENT ANLYS	1	1	29 AUX SYS BR	1	1
	E JORDAN/IE	1	1	HANAUER, S.	1	1
	TMI DOC CENTER	1	1			
EXTERNAL:	03 LPDR	1	1	04 NSIC	1	1
	29 ACRS	16	16			

JUN 28 1979

*604
ccp*

DUKE POWER COMPANY
Oconee Unit 2

Report Number: RO-270/79-3

Report Date: June 21, 1979

Occurrence Date: May 22, 1979

Facility: Oconee Unit 2, Seneca, South Carolina

Identification of Occurrence: Reactor Building High Pressure Trip Switch
Out of Calibration in Non-Conservative Direction

Conditions Prior to Occurrence: Heatup at 500^oF, 1750 psig

Description of Occurrence:

On May 22, 1979, during performance of the Reactor Building (RB) High Pressure Trip calibration procedure, the high pressure trip switch for Reactor Protective System (RPS) Channel D was found to be out of calibration in the non-conservative direction. The switch was determined to be calibrated for a trip setpoint of 4.15 psig, slightly above the 4.0 psig maximum setpoint permitted by Table 2.3-1B of the Oconee Nuclear Station Technical Specifications. However, the other three RPS channels were operable, satisfying 3.5.1-1 of the Technical Specifications. Each of the four channels was recalibrated for a trip setpoint of 3.5 psig and was verified to be functioning properly.

Apparent Cause of Occurrence:

The pressure switch appears to have been out of calibration as a result of drift of the setpoint. A similar drift was noted on February 28, 1979, during calibration of the Unit 1 RB high pressure trip switches. However, the instrument used to calibrate the pressure switches has a range of 0 - 30 psi, which may be too large to permit sufficiently accurate determination of the calibrated setting.

Analysis of Occurrence:

Since three of the four RPS channels were calibrated within Technical Specification requirements, a reactor trip on high RB pressure would have been assured within the 4.0 psig limit. Therefore, the limiting conditions for operation were satisfied, and this incident was of no significance with respect to safe operation of the unit. However, since a RPS setting was found to be less conservative than required by Technical Specifications, this incident must be reported pursuant to Technical Specification 6.6.2.1.b(1), although safe operation of the unit was not affected, and the health and safety of the public were not endangered.

Corrective Action:

The RPS high RB pressure trip switches were recalibrated for a trip setpoint of 3.5 psig to allow additional margin if the drift should recur. In addition, the calibration is being verified each six months, rather than at yearly intervals as was previously done, in order to monitor any future drift which might occur.

7906260533

Corrective Action: (cont'd)

Future calibrations will be performed with an instrument with a much smaller range, improving the precision of the calibrations.

LICENSEE EVENT REPORT

EXHIBIT A

CONTROL BLOCK: _____ (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01 | S | C | N | E | E | 2 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | _____ | 5

7 8 9 14 15 25 26 30 37 CAT 38

CONT
01 | REPORT SOURCE | L | 6 | 0 | 5 | 0 | 0 | 0 | 2 | 7 | 0 | 7 | 0 | 5 | 2 | 2 | 7 | 9 | 8 | 0 | 6 | 2 | 1 | 7 | 9 | 9

7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | On May 22, 1979, during calibration of the RPS high Reactor Building pressure

03 | trip switches, RPS channel D was determined to be calibrated for a trip set-

04 | point of 4.15 psig, slightly above the specified limit of 4.0 psig. Since

05 | the remaining three channels were properly calibrated, the limiting condi-

06 | tions for operation were satisfied, and safe operation of the unit was not

07 | affected. Therefore, the health and safety of the public were not endangered.

08 | _____

09 | SYSTEM CODE | I | B | 11 | CAUSE CODE | E | 12 | CAUSE SUBCODE | E | 13 | COMPONENT CODE | I | N | S | T | R | U | 14 | COMP. SUBCODE | S | 15 | VALVE SUBCODE | Z | 16

7 8 9 10 11 12 13 18 19 20

17 | LER/RO REPORT NUMBER | 7 | 9 | SEQUENTIAL REPORT NO. | 0 | 0 | 3 | OCCURRENCE CODE | 0 | 3 | REPORT TYPE | L | REVISION NO. | 0

21 22 24 25 26 27 28 29 30 31 32

18 | ACTION TAKEN | E | 18 | G | 19 | EFFECT ON PLANT | Z | 20 | SHUTDOWN METHOD | Z | 21 | HOURS | 0 | 0 | 0 | 0 | ATTACHMENT SUBMITTED | Y | 23 | NPRO-4 FORM SUB. | Y | 24 | PRIME COMP. SUPPLIER | L | 25 | COMPONENT MANUFACTURER | M | 2 | 3 | 5 | 25

33 34 35 36 37 38 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | The switch appears to have been out of calibration as a result of setpoint

11 | drift. The switches were recalibrated for a setpoint of 3.5 psig. The

12 | calibration will be verified at six-month intervals to monitor any future

13 | drift.

14 | _____

15 | FACILITY STATUS | C | 28 | % POWER | 0 | 0 | 0 | 0 | 29 | OTHER STATUS | NA | 30 | METHOD OF DISCOVERY | B | 31 | DISCOVERY DESCRIPTION | Instrument Calibration | 32

7 8 9 10 12 13 44 45 46 48

16 | ACTIVITY CONTENT | Z | 33 | Z | 34 | AMOUNT OF ACTIVITY | NA | 35 | LOCATION OF RELEASE | NA | 36

7 8 9 10 11 44 45

17 | PERSONNEL EXPOSURES NUMBER | 0 | 0 | 0 | 37 | TYPE | Z | 38 | DESCRIPTION | NA | 39

7 8 9 11 12 13 44 45

18 | PERSONNEL INJURIES NUMBER | 0 | 0 | 0 | 40 | DESCRIPTION | NA | 41

7 8 9 11 12 13 44 45

19 | LOSS OF OR DAMAGE TO FACILITY TYPE | Z | 42 | DESCRIPTION | NA | 43

7 8 9 10 11 44 45

20 | PUBLICITY ISSUED | N | 44 | DESCRIPTION | NA | 45

7 8 9 10 11 44 45

NAME OF PREPARER S. R. Lewis

PHONE: (704) 373-8285

NRC USE ONLY