

REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

A0/4

ACCESSION NBR: 8004070330 DOC. DATE: 80/03/28 NOTARIZED: NO
 FACIL: 50-269 Oconee Nuclear Station, Unit 1, Duke Power Co.
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 RECIP. NAME: RECIPIENT AFFILIATION: Region 2, Atlanta, Office of the Director

DOCKET # 05000269

SUBJECT: LER 80-005/03L-0: on 800229, during annual calibr. check reactor protection sys channel B RC pressure transmitter found out of calibr. Cause undetermined. Transmitter recalibr. & will be checked at next fuel outage.

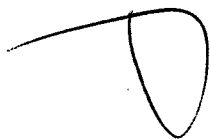
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R. CAPRA - ICU

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	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
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	20 AD PLANT SYS	1	1	22 REAC SAFT BR	1	1
	23 ENGR BR	1	1	24 KREGER	1	1
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	29 ACRS	16	16			

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DUKE POWER COMPANY
Oconee Unit 1

Report Number: RO-269/80-5

Report Date: March 28, 1980

Occurrence Date: February 29, 1980

Facility: Oconee 1, Seneca, South Carolina

Description of Occurrence: RCS Pressure Transmitter Out of Calibration
in Non-Conservative Direction

Conditions Prior to Occurrence: 40% Full Power

Description of Occurrence:

On February 29, 1980, during startup of Oconee 1 following a refueling outage, the Reactor Protective System (RPS) channel B reactor coolant (RC) pressure transmitter was found to be out of calibration in the non-conservative direction. The channel B RC pressure instrumentation annual calibration check was being conducted, and it was determined that the channel B trip would have occurred at a RC pressure of approximately 2301 psig. The RC high pressure trip setpoint is required to be limited to 2300 psig in order to preclude challenging the pressurizer pilot-operated relief valve (PORV), although a revision to the Oconee Nuclear Station Technical Specifications to reflect this setpoint is still being reviewed by the NRC. The transmitter was recalibrated to a conservative setpoint of 2294 psig.

Apparent Cause of Occurrence:

The RPS channel B RC pressure transmitter was replaced in September, 1979, as a result of a spurious output signal which resulted in several trips of the channel. Since that time, several unexplained low RC pressure and pressure/temperature trips of this channel have occurred, and they may have been due to the calibration error. However, the cause of the calibration error has not been determined. There has been no history of calibration problems with this type of transmitter.

Analysis of Occurrence:

RPS channels A and B monitor RC loop A pressure, and channels C and D monitor RC loop B pressure. The RPS logic is such that if any two channels sense high RC pressure, a reactor trip occurs. Since channels A, C and D were properly calibrated, a reactor trip would have occurred at a RC pressure of less than 2300 psig. In addition, the setpoint for the channel B transmitter of 2301 psig was only slightly in excess of the required limit, and was well below the PORV setpoint of 2450 psig. However, this incident involved a RPS instrument setting which was less conservative than required, although it would not have prevented fulfillment of the functional requirements of the RPS. Therefore, the incident must be reported pursuant to Technical Specification 6.6.2.1.b(1), although it was of no significance with respect to safe operation, and the health and safety of the public were not affected.

Corrective Action:

The transmitter was recalibrated during startup in order for the temperature effects to be similar to those experienced during power operation. A calibration check of the other channel B RC pressure instrumentation was also performed. In order to monitor the calibration of this transmitter, a calibration check will be performed at the end of the next scheduled outage.

LICENSEE EVENT REPORT

EXHIBIT A

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

01 | S | C | I | N | E | E | 1 | 2 | 0 | 0 | - | 0 | 0 | 0 | 0 | 0 | 0 | - | 0 | 0 | 3 | 4 | 1 | 1 | 1 | 1 | 4 | _____ | 5
7 8 9 14 15 25 28 30 37 CAT 58

CONT
01 | REPORT SOURCE | L | 6 | 0 | 5 | 0 | 0 | 0 | 2 | 6 | 9 | 7 | 0 | 2 | 2 | 9 | 8 | 1 | 0 | 3 | 0 | 1 | 3 | 2 | 8 | 8 | 0 | 9
7 8 60 61 68 69 74 75 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 | During the annual calibration check, the RPS channel B RC pressure transmitter
03 | was found to be out of calibration. A channel B trip would have occurred at
04 | a RC pressure of 2301 psig, rather than 2300 psig as required by pending
05 | Technical Specifications. Since the remaining three channels were correctly
06 | calibrated and since the channel B setpoint was well below the 2450 psig PORV
07 | setpoint, the incident did not affect safe operation or the health and safety
08 | of the public.

09 | SYSTEM CODE | I | R | 11 | CAUSE CODE | E | 12 | CAUSE SUBCODE | E | 13 | COMPONENT CODE | I | N | S | T | R | U | 14 | COMP. SUBCODE | T | 15 | VALVE SUBCODE | Z | 16
7 8 9 10 11 12 13 18 19 20
17 | LER/RO REPORT NUMBER | 8 | 0 | 21 | EVENT YEAR | 8 | 0 | 22 | SEQUENTIAL REPORT NO. | 0 | 1 | 0 | 1 | 5 | 24 | OCCURRENCE CODE | 0 | 3 | 27 | REPORT TYPE | L | 30 | REVISION NO. | 0 | 32
18 | ACTION TAKEN | E | 18 | FUTURE ACTION | E | 19 | EFFECT ON PLANT | Z | 20 | SHUTDOWN METHOD | Z | 21 | HOURS | 0 | 1 | 0 | 0 | 0 | 0 | 37 | ATTACHMENT SUBMITTED | Y | 41 | NPRO-4 FORM SUB. | Y | 24 | PRIME COMP. SUPPLIER | L | 25 | COMPONENT MANUFACTURER | R | 3 | 6 | 9 | 26
33 34 35 36 37 40 41 42 43 44 47

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 | No cause for the calibration error could be determined. The transmitter was
11 | installed in September, 1979, and channel B has experienced several spurious
12 | trips since then which may have been due to the error. The transmitter was
13 | recalibrated, and a calibration check will be made at the end of the next
14 | scheduled outage.

15 | FACILITY STATUS | E | 28 | % POWER | 0 | 4 | 0 | 29 | OTHER STATUS | NA | 30 | METHOD OF DISCOVERY | B | 31 | DISCOVERY DESCRIPTION | Annual Calibration check | 32
7 8 9 10 12 13 44 46 46

16 | ACTIVITY CONTENT RELEASED OF RELEASE | Z | 33 | AMOUNT OF ACTIVITY | NA | 35 | LOCATION OF RELEASE | NA | 36
7 8 9 10 11 44 46 60

17 | PERSONNEL EXPOSURES NUMBER | 0 | 0 | 0 | 37 | TYPE | Z | 38 | DESCRIPTION | NA | 39
7 8 9 11 12 13 60

18 | PERSONNEL INJURIES NUMBER | 0 | 0 | 0 | 40 | DESCRIPTION | NA | 41
7 8 9 11 12 60

19 | LOSS OF OR DAMAGE TO FACILITY TYPE | Z | 42 | DESCRIPTION | NA | 43
7 8 9 10 60

20 | PUBLICITY ISSUED DESCRIPTION | N | 44 | DESCRIPTION | NA | 45
7 8 9 10 60

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