

50-269

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER
INCIDENT REPORT

TO: MR-N C MOSELEY

FROM: DUKE POWER CO
CHARLOTTE, NC
W O PARKER, JR

DATE OF DOCUMENT
5-17-76

DATE RECEIVED
5-21-76

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DESCRIPTION
LTR TRANS THE FOLLOWING.....

PLANT NAME: **Oconee**

ENCLOSURE
RO 269/76-7 ON 5-3-76....REF REACTOR COOLANT
FLOW MEASUREMENT ERRORS NOT INCLUDED IN THE
ANALYSIS OF FLUX/FLOW TRIP SETPOINT AS
PREVIOUSLY IDENTIFIED.....

Handwritten signature
ACKNOWLEDGED

NOTE: IF PERSONNEL EXPOSURE IS INVOLVED
SEND DIRECTLY TO KREGER/J. COLLINS

SAFETY

FOR ACTION/INFORMATION

ENVIRO **5-25-76 RB**

BRANCH CHIEF: **Purple**
W/3 CYS FOR ACTION

LIC. ASST: **SHEPPARD**
W/ CYS
ACRS **17** CYS HOLDING **SENT** TO LA

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EXTERNAL DISTRIBUTION

CONTROL NUMBER

LPDR: **WALHALLA, SC**
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5143

DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

Regulatory Docket File

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

May 17, 1976

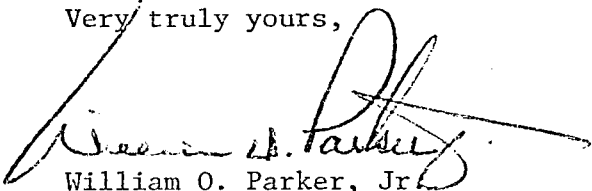
Mr. Norman C. Moseley, Director
U. S. Nuclear Regulatory Commission
Suite 818
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

Re: Oconee Unit 1
Docket No. 50-269

Dear Mr. Moseley:

Pursuant to Sections 6.2 and 6.6.2 of the Oconee Nuclear Station Technical Specifications, please find attached Reportable Occurrence Report RO-269/76-7.

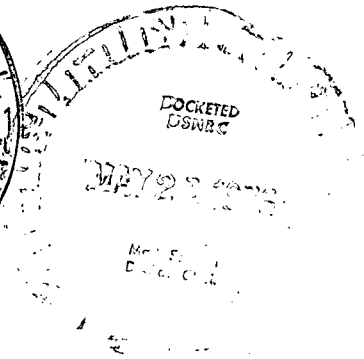
Very truly yours,


William O. Parker, Jr.

MST:mmmb

Attachment

CC Director, Office of Management Information
and Program Control
Mr. B. C. Rusche



DUKE POWER COMPANY
OCONEE UNIT 1

Report No.: RO-269/76-7

Report Date: May 17, 1976

Occurrence Date: May 3, 1976

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: Reactor coolant flow measurement errors not included in the analysis of flux/flow trip setpoint as previously identified.

Description of Occurrence:

On March 22, 1976, during the review of the proposed Technical Specification changes related to Cycle 3 operation of Oconee 1, the NRC/ONRR was informed that the measurement errors associated with the reactor coolant flow instrument string of the Reactor Protection System had been included in the analysis of the flux/flow trip setpoint. However, on May 3, 1976, while the calculational methods for determining the Oconee 2 (Cycle 2) flux/flow trip setpoint were being reviewed, it was determined that the Oconee 1 flux/flow trip setpoint had been established based on the assumption that the flow measurement errors were calibrated out of the system and that, therefore, the calculation did not explicitly include an allowance for possible errors in the flow instrument string.

Analysis of Occurrence:

At the time of the Oconee 1 (Cycle 3) flux/flow trip setpoint analysis, the calculational procedure called for various assumptions and allowances including (1) one vent valve assumed to be stuck open, (2) an allowance of 1.5% for noise in the flow signal, and (3) RC flow measurement errors assumed to be calibrated out of the system. Concurrently, a review of the calculational procedure for flux/flow trip setpoint and the manner in which possible system errors were being accounted for in the analysis was being performed, and this review indicated that the flow measurement errors were not calibrated out in their entirety, but that some residual errors could remain in the system. The calculational procedure for flux/flow trip setpoint has since then been revised to include an allowance for possible residual errors in the RPS flow instrument string (ΔP transmitter error, summer amplifier error, function generator error, and bistable comparator error). A re-analysis of the Oconee 2 flux/flow trip setpoint has been performed taking into account the possible errors associated with the RPS flow instrument string and without including the effect of an assumed stuck open vent valve (permitted by the NRC by letter of January 30, 1976). This re-analysis yielded a flux/flow trip setpoint of 1.080 after including an allowance of 1.2% for flow measurement errors and 1.5% for noise in the flow signal. Thus the existing flux/flow trip setpoint of 1.055 is conservative compared to that which could be allowed, and it is concluded that this incident did not affect the health and safety of the public.

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Corrective Action:

Based on the above, no corrective action with regard to Oconee 1 instrumentation and setpoints is necessary. Also, the existing, on-going reviews of Technical Specifications and their analytical bases which identified this particular occurrence are considered to continue to be adequate and that no corrective action is necessary.