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AUTH.NAME AUTHOR AFFILIATION
PARKER,W.D. Duke Power Co.
RECIP.NAME RECIPIENT AFFILIATION
DENTON,H.R. Office of Nuclear Reactor Regulation, Director

SUBJECT: Informs that typographical error found in moderator temp coefficient section of rept, "Oconee Nuclear Station Generic Startup Physics Test Program." Corrected page encl.

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August 15, 1980

Mr. Harold R. Denton, Director
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Mr. R. W. Reid, Chief
Operating Reactors Branch No. 4

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287

Dear Mr. Denton:

My letter of July 11, 1980 transmitted a report entitled, "Oconee Nuclear Station Generic Startup Physics Test Program," to your office. A typographical error has been found in the Moderator Temperature Coefficient section of that report which concerns the acceptance criterion of that measurement. Attached is a corrected copy of that page. Please replace the original page with the attached.

Very truly yours,

William O. Parker, Jr.

FTP:vr
Attachment

A001
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MODERATOR TEMPERATURE COEFFICIENT

CONDITIONS:

HZP, 532°F, 2155 psig, full reactor coolant flow.

PROCEDURE:

The moderator temperature coefficient (MTC) test begins with the reactor at equilibrium critical conditions. The test is performed by executing a change in reactor coolant average temperature of either plus or minus 5 degrees and establishing the reactor at the upper or lower temperature plateau while data is taken. The change in reactivity associated with this maneuver is compensated for by control rod movement. After data is taken at the first temperature plateau, reactor coolant temperature is changed to the opposite plateau, either 5 degrees above or below the nominal average coolant temperature, by executing a 10°F temperature ramp from the first plateau to the second. Changes in reactivity associated with this temperature transient from the first or second temperature plateaus are recorded by the reactivity calculation. The overall temperature coefficient is then calculated by dividing the change in reactivity between the first and second temperature plateaus by the change in temperature between the first and second temperature plateaus. This overall temperature coefficient is corrected for the contribution of the isothermal doppler coefficient of reactivity to give the moderator coefficient of reactivity.

The Reactor Coolant System's average temperature values are obtained by taking the average of hot and cold leg RTD readings. The hold time at each temperature plateau during the test is approximately five minutes.

The measurement uncertainty associated with this measured value varies as a function of the magnitude of the temperature coefficient itself. In all cases within or near the acceptable range of temperature coefficient values, the error is less than $\pm$ 6.0 x 10^{-6} $\Delta k/k/°F$.

The results are reviewed by the Test Coordinator and compared with the predicted MTC. If the difference between the measured and predicted values does not exceed 3.0 x 10^{-5} $\Delta k/k/°F$, then the results are acceptable.

FOLLOW UP ACTIONS:

If the measured maximum positive MTC exceeds 0.5 x 10^{-4} $\Delta k/k/°F$, the results will be reviewed by cognizant engineers to determine the appropriate corrective actions required to resolve the discrepancy. This review will be completed and the results and recommended actions approved by the on-site Technical Review Committee prior to exceeding 5% FP.

If the acceptance criteria is exceeded, the results will be reviewed by cognizant engineers to determine the appropriate corrective actions required to resolve the discrepancy. This review will be completed and the results as well as recommended corrective actions approved by the on-site Technical Review Committee prior to 100% FP.

Revised 08/15/80