AUG 3 1 1970

F. A. Morris, Director
Division of Reactor Licensing

OCONEE I, , AND III - DOCKET NOS. 50-269/270/287

The enclosed review is submitted for inclusion in your report to the ACRS.

Original signed by
E. G. Case
Edson G. Case, Director
Division of Reactor Standards

Enclosure:
Review - Oconee I, II, III

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DATE ▶	8/18/70	8/ /70	8/ /70		

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REACTOR PHYSICS REVIEW

OCONEE I, II, III

Since the first report to the ACRS, the applicant has submitted revised Technical Specifications which address all of the concerns expressed by the staff in the physics area. These cover the BOL moderator temperature coefficient, axial power imbalance, quadrant power imbalance, and in-core detectors. This submittal, however, is not fully satisfactory and comparable to the Specifications for other recent PWR's (Palisades, Point Beach, H. B. Robinson, and Indian Point). We are continuing to work with the applicant on Technical Specification details to achieve such comparability or justify differences. We do not anticipate any problems.

Concerning the BOL moderator temperature coefficient, we have not completed our evaluation of the acceptability of the applicant's proposed maximum value of $+0.9 \times 10^{-4}$ $\Delta k/k/°F$ for the loss-of-coolant accident. Preliminary analysis indicates that this value of the moderator coefficient leads to acceptable clad temperatures.

We also earlier expressed concern that the existing protection system had no input from axial power imbalance, and that it might be possible for fuel damage to occur under conditions involving improper use of the part length control rods. The applicant has added automatic protection on the axial power imbalance which is expected to prevent axial design peaking factors from being exceeded. This will be verified in startup experiments. We are satisfied that these provisions are adequate.