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SUBJECT: Forwards rev 2 to proprietary topical rept DPC-NE-3000-P, consisting of simulation model revs to reflect new Mk-B11 fuel assembly design, application of new critical heat flux correlation & several RETRAN model improvements. Withheld.

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December 23, 1997

U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Attention: Document Control Desk

Subject: Oconee Nuclear Station
Docket Numbers 50-269, -270 and -287
Topical Report DPC-NE-3000P, Revision 2

Topical report DPC-NE-3000-PA, Revision 1, "Thermal-Hydraulic Transient Analysis Methodology," has previously been reviewed and approved by the NRC for application to Oconee Nuclear Station. This topical report describes the RETRAN-02 and VIPRE-01 simulation models for analyzing non-LOCA transients and accidents. By letter dated July 30, 1997, Duke Power submitted topical report DPC-NE-3005-P, "UFSAR Chapter 15 Transient Analysis Methodology," for NRC review. This topical report includes the application of the simulation models of DPC-NE-3000 for analyzing the Oconee UFSAR Chapter 15 non-LOCA transients and accidents. The analytical methodology of DPC-NE-3005 requires minor revisions to the previously approved DPC-NE-3000 simulation models.

The scope of Revision 2 consists of simulation model revisions to reflect the new Mk-B11 fuel assembly design, application of the new critical heat flux correlation (BWU-Z with the Mk-B11V multiplier), and several RETRAN model improvements. These revisions are described in the attachment and are designated as Revision 2 to DPC-NE-3000-P. //

To support the schedule for fabrication and design of the fuel for Oconee 3 Cycle 19, review of the topical report revision is requested by October 1998. APO 1

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U. S. Nuclear Regulatory Commission
December 23, 1997
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If there are any questions, or additional information is needed,
please call Gregg Swindlehurst at (704)382-5176.

Very truly yours,

A handwritten signature in cursive script that reads "M. S. Tuckman". The signature is written in dark ink and is positioned above the printed name.

M. S. Tuckman

Attachment

U. S. Nuclear Regulatory Commission
December 23, 1997
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