

August 8, 1994

Mr. M. S. Tuckman
Senior Vice President
Nuclear Generation
Duke Power Company
P. O. Box 1006
Charlotte, North Carolina 28201-1006

Dear Mr. Tuckman:

SUBJECT: SAFETY EVALUATION REGARDING THE THERMAL HYDRAULIC TRANSIENT ANALYSIS
METHODOLOGY DPC-NE-3000 FOR OCONEE NUCLEAR STATION UNITS 1, 2,
AND 3 (TAC NOS. M87112, M87113, AND M87114)

By letter dated July 1987, Duke Power Company (DPC), submitted DPC-NE-3000, a topical report documenting DPC's use of the RETRAN computer code for McGuire/Catawba and Oconee. It was determined that DPC's use of the code was acceptable with respect to McGuire/Catawba; however, its use for Oconee licensing type analyses was restricted, primarily due to the difficulty in modeling the performance of the once-through steam generators. DPC submitted supplemental information, dated October 16, 1991, and October 5, 1993, to qualify the RETRAN model for use with Oconee analyses.

The NRC staff and its contractor, International Technical Services, Incorporated (ITS), have completed their review of the topical report and the supplemental submittals. The staff concludes that the DPC modifications of the steam generator model are acceptable. The staff's Safety Evaluation is included as Enclosure 1 and the ITS Technical Evaluation Report is included as Enclosure 2. This completes NRC actions for TAC Nos. M87112, M87113, and M87114. If you have questions regarding this matter, contact me at (301) 504-1495.

Sincerely,
Original signed by:
L. A. Wiens, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

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PDR ADDCK 05000269
PDR

- Enclosures:
1. NRC Safety Evaluation
2. ITS Technical Evaluation Report

cc w/enclosures:
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UNITED STATES
NUCLEAR REGULATORY COMMISSION
WASHINGTON, D.C. 20555-0001

August 8, 1994

Docket Nos. 50-269, 50-270
and 50-287

Mr. M. S. Tuckman
Senior Vice President
Nuclear Generation
Duke Power Company
P. O. Box 1006
Charlotte, North Carolina 28201-1006

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SUBJECT: SAFETY EVALUATION REGARDING THE THERMAL HYDRAULIC TRANSIENT ANALYSIS
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Sincerely,

A handwritten signature in cursive script, appearing to read "L. A. Wiens".

L. A. Wiens, Project Manager
Project Directorate II-3
Division of Reactor Projects - I/II
Office of Nuclear Reactor Regulation

Enclosures:

1. NRC Safety Evaluation
2. ITS Technical Evaluation Report

cc w/enclosures:
See next page

Mr. J. W. Hampton
Duke Power Company

Oconee Nuclear Station

cc:

A. V. Carr, Esquire
Duke Power Company
422 South Church Street
Charlotte, North Carolina 28242-0001

J. Michael McGarry, III, Esquire
Winston and Strawn
1400 L Street, NW.
Washington, DC 20005

Mr. Robert B. Borsum
Babcock & Wilcox
Nuclear Power Division
Suite 525
1700 Rockville Pike
Rockville, Maryland 20852

Manager, LIS
NUS Corporation
2650 McCormick Drive, 3rd Floor
Clearwater, Florida 34619-1035

Senior Resident Inspector
U. S. Nuclear Regulatory Commission
Route 2, Box 610
Seneca, South Carolina 29678

Regional Administrator, Region II
U. S. Nuclear Regulatory Commission
101 Marietta Street, NW. Suite 2900
Atlanta, Georgia 30323

Max Batavia, Chief
Bureau of Radiological Health
South Carolina Department of Health
and Environmental Control
2600 Bull Street
Columbia, South Carolina 29201

County Supervisor of Oconee County
Walhalla, South Carolina 29621

Mr. Steve Benesole
Compliance
Duke Power Company
Oconee Nuclear Site
P. O. Box 1439
Seneca, South Carolina 29679

Mr. Marvin Sinkule, Chief
Project Branch #3
U. S. Nuclear Regulatory Commission
101 Marietta Street, NW. Suite 2900
Atlanta, Georgia 30323

Ms. Karen E. Long
Assistant Attorney General
North Carolina Department of
Justice
P. O. Box 629
Raleigh, North Carolina 27602

Mr. G. A. Copp
Licensing - EC050
Duke Power Company
526 South Church Street
Charlotte, North Carolina 28242-0001

Dayne H. Brown, Director
Division of Radiation Protection
North Carolina Department of
Environment, Health and
Natural Resources
P. O. Box 27687
Raleigh, North Carolina 27611-7687