



**M. S. Tuckman**  
*Executive Vice President*  
*Nuclear Generation*

**Duke Power Company**  
*A Duke Energy Company*

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December 27, 2000

U. S. Nuclear Regulatory Commission  
Washington D. C. 20555-0001

ATTENTION: Document Control Desk

Subject: Oconee Nuclear Station  
Docket Numbers 50-269, 50-270, and 50-287

McGuire Nuclear Station  
Docket Numbers 50-369 and 50-370

Catawba Nuclear Station  
Docket Numbers 50-413 and 50-414

Issuance of the Approved Versions of  
Topical Report DPC-NE-3000-PA, Revision 2 and  
DPC-NE-3000-A, Revision 2; *Thermal-Hydraulic  
Transient Analysis Methodology*  
TAC Nos. MA1127, MA1128, and MA1129

By letter dated October 14, 1998, the NRC transmitted a safety evaluation for the subject topical report revisions. Duke Energy Corporation has now reprinted this topical report in both proprietary and non-proprietary versions. Accordingly, enclosed are 15 copies of the proprietary version and 12 copies of the non-proprietary version, submitted in accordance with the guidance contained in NUREG-0390.

Subsequent to the issuance of the SER on Revision 2, the cladding material for the Mk-B11 fuel assembly design changed from Zircaloy-4 to M5. The M5 cladding material topical report BAW-10227-PA, "Evaluation of Advanced Cladding and Structural Material (M5) in PWR Reactor Fuel," was approved by the NRC in an SER dated February 4, 2000 and addressed to Mr. T. A. Coleman (FCF). The approved version of Revision 2 to DPC-NE-3000 has incorporated the M5 cladding design in Appendix A.

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This approved Revision 2 to DPC-NE-3000-PA also includes some additional minor modeling details and corrections to update the content of the report. All of these changes are listed at the back of the report. Due to the minor nature of these changes and corrections, it is concluded that NRC review and approval is not required prior to implementation.

Please note that there is information enclosed that Duke considers proprietary. In accordance with 10CFR2.790, Duke requests that this information be withheld from public disclosure. An affidavit which attests to the proprietary nature of this information is included in this letter.

If there are any questions or if additional information is needed on this matter, please call J. S. Warren at (704) 382-4986.

Very truly yours,

A handwritten signature in black ink, appearing to read "M. S. Tuckman", with a long horizontal flourish extending to the right.

M. S. Tuckman

Attachments (2)

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xc w/Non-proprietary Version Only:

D. E. LaBarge, NRC Senior Project Manager (ONS)  
U. S. Nuclear Regulatory Commission  
Mail Stop O-8 H12  
Washington, DC 20555-0001

F. Renaldi, NRC Project Manager (MNS)  
U. S. Nuclear Regulatory Commission  
Mail Stop O-8 H12  
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C. P. Patel, NRC Project Manager (CNS)  
U. S. Nuclear Regulatory Commission  
Mail Stop O-8 H12  
Washington, DC 20555-0001

L. A. Reyes, Regional Administrator  
U. S. Nuclear Regulatory Commission  
Region II  
Atlanta Federal Center  
61 Forsyth St., SW, Suite 23T85  
Atlanta, GA 30303


M. C. Shannon  
NRC Resident Inspector (ONS)

S. M. Shaeffer  
NRC Resident Inspector (MNS)

D. J. Roberts  
NRC Resident Inspector (CNS)


AFFIDAVIT

1. I am Executive Vice President of Duke Energy Corporation; and as such have the responsibility for reviewing information sought to be withheld from public disclosure in connection with nuclear power plant licensing; and am authorized on the part of said Corporation (Duke) to apply for this withholding.
2. I am making this affidavit in conformance with the provisions of 10CFR 2.790 of the regulations of the Nuclear Regulatory Commission (NRC) and in conjunction with Duke's application for withholding, which accompanies this affidavit.
3. I have knowledge of the criteria used by Duke in designating information as proprietary or confidential.
4. Pursuant to the provisions of paragraph (b)(4) of 10CFR 2.790, the following is furnished for consideration by the NRC in determining whether the information sought to be withheld from public disclosure should be withheld.
  - (i) The information sought to be withheld from public disclosure is owned by Duke and has been held in confidence by Duke and its consultants.

  
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(Continued)

- (ii) The information is of a type that would customarily be held in confidence by Duke. The information consists of analysis methodology details, analysis results, supporting data, and aspects of development programs relative to a method of analysis that provides a competitive advantage to Duke.
- (iii) The information was transmitted to the NRC in confidence and under the provisions of 10CFR 2.790, it is to be received in confidence by the NRC.
- (iv) The information sought to be protected is not available in public to the best of our knowledge and belief.
- (v) The proprietary information sought to be withheld in this submittal is that which is marked in the proprietary version of the Duke Topical Report designated DPC-NE-3000-PA, Revision 2, *Thermal-Hydraulic Transient Analysis Methodology*, and omitted from the non-proprietary version. The published approved versions of this topical report are being submitted to the NRC as an enclosure to this Duke letter. This information enables Duke to:
  - (a) Respond to Generic Letter 83-11, "Licensee Qualification for Performing Safety Analyses in Support of Licensing Actions."
  - (b) Respond to NRC requests for information regarding the transient response of Babcock & Wilcox and Westinghouse pressurized water reactors.

  
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- (c) Support Facility Operating Licenses/Technical Specifications amendment requests for Babcock & Wilcox and Westinghouse pressurized water reactors.
  - (d) Perform safety evaluations per 10CFR50.59.
  - (e) Enhance operation of and training programs related to nuclear power plants.
- (vi) The proprietary information sought to be withheld from public disclosure has substantial commercial value to Duke.
- (a) It allows Duke to reduce vendor and consultant expenses associated with supporting the operation and licensing of nuclear power plants.
  - (b) Duke intends to sell the information to nuclear utilities, vendors, and consultants for the purpose of supporting the operation and licensing of nuclear power plants.
  - (c) The subject information could only be duplicated by competitors at similar expense to that incurred by Duke.



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5. Public disclosure of this information is likely to cause harm to Duke because it would allow competitors in the nuclear industry to benefit from the results of a significant development program without requiring commensurate expense or allowing Duke to recoup a portion of its expenditures or benefit from the sale of the information.



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M. S. Tuckman, being duly sworn, states that he is the person who subscribed his name to the foregoing statement, and that all the matters and facts set forth within are true and correct to the best of his knowledge.

M.S. Tuckman  
M. S. Tuckman, Executive Vice President

Subscribed and sworn to on this 27<sup>TH</sup> day of

December, 2000

Mary P. Nelms  
Notary Public

My Commission Expires:

Jan 22, 2001

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bxc w/o Attachments:

C. J. Thomas  
G. B. Swindlehurst  
L. E. Nicholson  
J. E. Smith  
M. T. Cash  
K. L. Crane  
G. D. Gilbert  
L. J. Rudy  
K. E. Nicholson  
T. K. Pasour (2)  
J. S. Warren  
NRIA File/ELL

ONS Master File - ON03DM  
MNS Master File - MG01DM  
CNS Master File - CN04DM