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TUCKMAN, M.S. Duke Power Co.
RECIP. NAME RECIPIENT AFFILIATION

Document Control Branch (Document Control Desk)

SUBJECT: Forwards proprietary TR DPC-NE-3003-P, "Mass & Energy Release & Containment Response Methodology." Objective of rept is to describe new methods used to reanalyze FSAR containment response to LOCAs & SLBs. Rept withheld.

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DUKE POWER

August 11, 1993

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

Attention: Document Control Desk

Subject: Duke Power Company
Oconee Nuclear Station
Docket Numbers 50-269, -270, and -287
Topical Report DPC-3003-P, "Mass and Energy Release and
Containment Response Methodology"

Enclosed for your review is Duke Power Company's Topical Report DPC-NE-3003-P, "Mass and Energy Release and Containment Response Methodology." This report describes Duke's methodology for simulating the mass and energy release from high-energy line breaks, and the resulting containment response for the Oconee Nuclear Station. Also enclosed is a copy of the report entitled "CAP - Containment Analysis Package," which is referenced by DPC-NE-3003, and is included to facilitate the review.

The objective of this report is to describe new methods used to reanalyze the FSAR containment response to loss-of-coolant accidents and steam line breaks, in order to address numerous identified limitations in the existing analyses which date to the early 1970s. The methods and analyses in this report represent a new design basis for which the performance requirements on engineered safeguards systems and the limiting conditions for operation are well established. This modernization of the design basis will improve future evaluations of abnormal conditions and plant design and testing issues.

In accordance with 10CFR 2.790, Duke Power Company requests that this report be considered proprietary. Information supporting this request is included in the attached affidavit. A non-proprietary version of DPC-NE-3003 will be submitted following receipt of the Safety Evaluation Report.

If you have any questions, or need more information, please call Scott Gewehr at (704) 382-7581.

M. S. Tuckman

M. S. Tuckman

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U. S. Nuclear Regulatory Commission
August 11, 1993
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U. S. Nuclear Regulatory Commission
August 11, 1993
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bxc: (w/o Attachments)
G. A. Copp
K. S. Canady
G. B. Swindlehurst
File: OS-801.01

AFFIDAVIT OF M. S. TUCKMAN

1. I am Senior Vice President, Nuclear Generation Department, Duke Power Company ("Duke"), and as such have the responsibility of reviewing the proprietary information sought to be withheld from public disclosure in connection with nuclear plant licensing, and am authorized to apply for its withholding on behalf of Duke.
2. I am making this affidavit in conformance with the provisions of 10 CFR 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 10 CFR 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.
 - (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 10 CFR 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 report DPC-NE-3003, "Mass and Energy Release and Containment Response Methodology" and supporting documentation, and omitted from the non-proprietary versions.


M. S. Tuckman

(continued)

AFFIDAVIT OF M. S. TUCKMAN (Page 2)

This information enables Duke to:

- (a) Simulate the mass and energy release rates from loss-of-coolant accidents and steam line break accidents in pressurizer water reactors of the Babcock and Wilcox design.
- (b) Simulate the response of a conventional dry containment design to a high-energy line break inside containment.
- (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.
- 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 a commensurate expense or allowing Duke to recoup a portion of its expenditures or benefit from the sale of the information.


M. S. Tuckman

(continued)

AFFIDAVIT OF M. S. TUCKMAN (Page 3)

M. S. Tuckman, being duly sworn, on his oath deposes and says that he is the person who subscribed his name to the foregoing statement, and that the matters and facts set forth in the statement are true.

M. S. Tuckman
M. S. Tuckman

Sworn to and subscribed before me this 17th day of August, 1993. Witness my hand and official seal.

Mary P. Delms
Notary Public

My commission expires January 22, 1996.