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50-270 Oconee Nuclear Station, Unit 2, Duke Power Co. 05000270
50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287
AUTH. NAME AUTHOR AFFILIATION
TUCKMAN, M.S. Duke Power Co.
RECIP. NAME RECIPIENT AFFILIATION
NRC - No Detailed Affiliation Given

see Reports
Withholding
Granted

SUBJECT: Forwards non-proprietary & proprietary TRs DPC-NE-3005, "UFSAR Chapter 15 Transient Analysis Methodology," for NRC review & approval. Rept implements modern non-LOCA transient to enable complete rev to 1970s analyses. *9/4/97 #97091523A*

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July 30, 1997

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

Subject: Oconee Nuclear Station
Docket Numbers 50-269, -270, and -287
UFSAR Chapter 15 Transient Analysis Methodology,
DPC-NE-3005-P

Gentlemen:

Please find enclosed proprietary topical report DPC-NE-3005-P, "UFSAR Chapter 15 Transient Analysis Methodology," which is submitted for NRC review and approval. A non-proprietary version is also enclosed. This report describes the Duke Energy Corporation (at the time the report was written, Duke Power Company) methodology for analyzing the non-LOCA UFSAR Chapter 15 transients and accidents for the Oconee Nuclear Station.

The objective of this report is to implement a modern non-LOCA transient and accident analysis methodology to enable a complete revision to the 1970s vintage analyses in Chapter 15 of the Oconee UFSAR. Reanalysis using this methodology will establish a new licensing basis which will significantly improve the knowledge of the design requirements, assumptions, and inputs used in the analyses. As a result, the quality and thoroughness of safety evaluations conducted in support of operations and resolution of regulatory issues will be enhanced. Most of the computer codes and simulation models used in this topical report have been previously reviewed and approved by the NRC for application to Oconee reload design and in response to Generic Letter 83-11. This topical report is a specific application of those models to the analysis of Oconee UFSAR Chapter 15 transients and accidents. Duke Power previously received NRC approval for a similar methodology that is applicable to the McGuire and Catawba Nuclear Stations.

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In addition to the above objective, a new fuel assembly design designated as the Mk-B11 will be phased into core reload designs beginning with Oconee Unit 3 Cycle 19, with startup scheduled for March 2000. This new fuel design will incorporate mixing vane grids and an improved CHF correlation. These changes require reanalysis of many of the UFSAR Chapter 15 events.

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

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.

If there are any questions, or additional information is needed, please call Scott Gewehr at (704) 382-7581.



M. S. Tuckman

cc: Mr. D. E. LaBarge, Project Manager
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M. A. Scott
Senior Resident Inspector
Oconee Nuclear Station

AFFIDAVIT OF M. S. TUCKMAN

1. I am Executive Vice President, Nuclear Generation Department, Duke Energy Corporation ("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.


M. S. Tuckman

(continued)

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- (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-3005-P, "UFSAR Chapter 15 Transient Analysis Methodology" and supporting documentation, and omitted from the non-proprietary versions. This information enables Duke to:
- (a) Respond to Generic Letter 83-11, "Licensee Qualification for Performing Safety Analyses in Support of Licensing Actions."
 - (b) Simulate UFSAR Chapter 15 transients and accidents for the Oconee Nuclear Station and other PWRs.
 - (c) Perform safety reviews per 10 CFR 50.59.
- (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.


M. S. Tuckman

(continued)

AFFIDAVIT OF M. S. TUCKMAN (Page 3)

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, 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 30th day of July, 1997. Witness my hand and official seal.

Linda Case Smith
Notary Public

My commission expires 5-6-2000.

