



Duke Power Company
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M. S. Tuckman
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December 13, 1999

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

ATTENTION: Document Control Desk

SUBJECT: Duke Energy Corporation

McGuire Nuclear Station - Units 1 & 2
Docket Nos. 50-369 and 50-370

Catawba Nuclear Station - Units 1 & 2
Docket Nos. 50-413 and 50-414

Topical Report DPC-NE-2009 (TAC Nos. MA2359,
MA2361, MA2411, MA2412), Update of Chapter 6.0,
UFSAR Analyses

Topical Report DPC-NE-2009-P, *Duke Power Company Westinghouse Fuel Transition Report*, was approved by the NRC in an SER issued September 22, 1999. This report was originally submitted for NRC review on July 22, 1998. The approved version of this topical report is being edited and assembled for publication and submittal to the NRC. During the review of the report, several minor updates have been identified as being necessary for accuracy. This letter describes these updates and includes revised pages that will be incorporated in the final approved version of DPC-NE-2009-PA that will be submitted to the NRC. These updates are considered by Duke to not require NRC review and approval. They are being submitted for information only prior to publication. No response to this letter is requested.

Item #1: Section 6.2.2, Steam Line Break

The void models used in the VIPRE-01 code for the steam line break analysis methodology have been changed for both steam line break analyses, rather than just for the case with loss of offsite power. The justification for the

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change in void models, presented in Chapter 5 of the report remains valid. This update is necessary due to additional analysis experience gained since the submittal of the report.

Item #2: Section 6.5.2, Large Break LOCA

The words ". . . typically with Moody break discharge coefficients, CD, of 0.4, 0.6 , and 0.8." have been deleted since this information is not required in the context of the paragraph.

Item #3: Section 6.5.2, Large Break LOCA

The words "Explicit analyses will be performed simulating . . ." have been replaced with "An evaluation will be performed to address . . ." since it has been determined that an evaluation rather than an explicit analysis is sufficient.

Future Transition to Westinghouse Best-Estimate LOCA Methodology

In addition, Duke will be making a future transition from the Westinghouse LOCA Evaluation Model (described in Chapter 6 of DPC-NE-2009) to Westinghouse's Best-Estimate LOCA Evaluation Methodology. This transition will not occur until after several reloads are analyzed with the LOCA methods as described in DPC-NE-2009. Duke will notify the NRC concerning the future application of the best-estimate LOCA methods. The DPC-NE-2009 topical will not be revised in the future to include the best-estimate LOCA methods since implementation of those methods will occur subsequent to the initial transition to Westinghouse fuel, which is the subject of the topical report.

Attachment A provides the proprietary version of the updates to DPC-NE-2009, and Attachment B provides the non-proprietary version. The updates will be included in the published versions of DPC-NE-2009-PA and DPC-NE-2009-A.

The attached pages of Topical Report DPC-NE-2009 contain information that Duke considers PROPRIETARY. In accordance with 10CFR 2.790, Duke requests that this information be

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withheld from public disclosure. A non-proprietary version of the affected pages is included in the attachment. An affidavit which attests to the proprietary nature of the applicable information is also included with this letter.

Any questions regarding these updates should be directed to J. S. Warren at (704) 382-4986.

Very truly yours,



M. S. Tuckman

MST/JSW

Attachment

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xc w/Proprietary and Non-proprietary Attachments:

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

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

xc w/Non-proprietary Attachment:

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

S. M. Shaeffer, NRC Senior Resident Inspector (MNS)

D. J. Roberts, NRC Senior Resident Inspector (CNS)

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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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- (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-2009P, *Duke Power Company Westinghouse Fuel Transition Report*, and omitted from the non-proprietary version. This topical report was originally submitted to the NRC by Duke letter dated July 22, 1998 and revised by Duke letters dated August 17, 1999 and December 13, 1999. The NRC SER for this topical report was issued September 22, 1999. This information enables Duke to:
 - (a) Respond to Generic Letter 83-11, *Licensee Qualification for Performing Safety Analyses in Support of Licensing Actions*.



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- (b) Perform core design, fuel rod design, and thermal-hydraulic analyses for the Westinghouse Robust Fuel Assembly design.
 - (c) Simulate UFSAR Chapter 15 transients and accidents for McGuire and Catawba Nuclear Stations.
 - (d) Perform safety evaluations per 10CFR50.59.
 - (e) Support Facility Operating Licenses/Technical Specifications amendments for McGuire and Catawba Nuclear Stations.
- (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

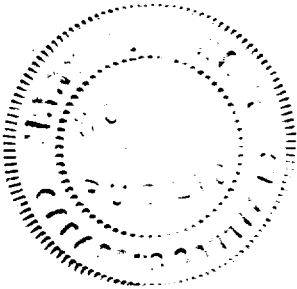
Subscribed and sworn to before me this 14TH day of
December, 1998

Mary P. Nelson

Notary Public

My Commission Expires:

JAN 22, 2001



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bxc w/att:

L. A. Keller
G. B. Swindlehurst
R. M. Gribble
D. R. Koontz
M. T. Cash
K. L. Crane
G. D. Gilbert
K. E. Nicholson
T. K. Pasour (2)
J. S. Warren
NRIA File/ELL