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 50-370 William B. McGuire Nuclear Station, Unit 2, Duke Powe 05000370
 50-413 Catawba Nuclear Station, Unit 1, Duke Power Co. 05000413R
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SUBJECT: Forwards list of series of topical repts for core T-H. S

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DUKE POWER

February 10, 1989

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Washington, D.C. 20555

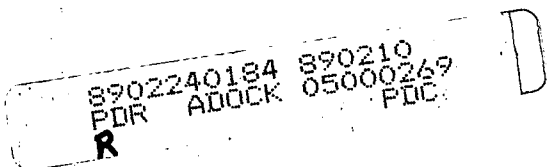
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Subject: Duke Power Company
Oconee Nuclear Station
Docket Nos. 50-269, 270 and 287
McGuire Nuclear Station
Docket Nos. 50-369 and 50-370
Catawba Nuclear Station
Docket Nos. 50-413 and 50-414

Duke is developing a series of topical reports for core T-H which are inter-related. Following is the current schedule of Duke core T-H topical report (including those currently being reviewed by NRC), a description of each, their interdependences, and application schedules.

1. DPC-NE-2000 Correlation for Predicting Critical Heat Flux in Mixing Vane Grid Fuel Assemblies, Duke Power Company, September 1987.

An SER is requested by approximately May 1989. This CHF correlation is Duke technology that will be later substituted into the T-H methodology of item 2, below, and used on McGuire and Catawba reloads during 1991. This technology may also be marketed to other utilities by Duke. Thus, if DPC-2000 is not approved by approximately May 1989, this Duke T-H methodology (item 2 revision) would not be completed by mid-1990, preventing Duke from performing cycle specific analyses during 1990 for 1991 reloads in all four of Duke's Westinghouse reactors. Of equal importance is the fact that an extensive set of questions have been received and responses provided to NRC (reference my letter dated 10/27/88). Delay of the review at this point would be very inefficient and would require a substantially larger NRC/Contractor effort in the end.



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2. DPC-NE-2004 McGuire and Catawba Nuclear Stations Core Thermal-Hydraulic Methodology Using VIPRE-01, Duke Power Company, December 1988.

This report was submitted on January 9, 1989 for NRC review. The requested approval date is September 1989. This topical is a statistical core design (SCD) package based on B&W Fuel Company's BWMV CHF Correlation. We had planned to develop this report using its own CHF Correlation, DCHF-1. However, since this correlation has not yet been approved by NRC, Duke developed this topical using the BWMV implemented on Duke cores during 1991. Approval of this methodology by September 1989 is also important in that this methodology will form the basis for the Oconee SCD topical (item 4).

3. DPC-NE-2003 Oconee Nuclear Station Core Thermal-Hydraulic Methodology Using VIPRE-01, Duke Power Company, August 1988.

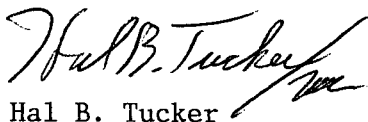
This topical applies to Oconee Nuclear Station. An SER is needed by May 1989 to support the Cycle 12 core design for Oconee unit 3. The EOC 11 (End of Cycle 11) unit 3 outage is currently scheduled for December 5, 1989 - January 30, 1990.

4. Oconee Nuclear Station Statistical Core Design Using BWC CHF Correlation and VIPRE-01, Duke Power Company, anticipated date: June 1990.

This topical will be a statistical core design package developed for Oconee Nuclear Station and will be based on B&W Fuel Company's BWC CHF correlation and the Duke SCD methodology of item 2.

If there are any problems completing these reviews as requested, please contact us as soon as possible.

Very truly yours,


Hal B. Tucker

PGL/20/II

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