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SUBJECT: Forwards Topical Rept DPC-NE-1004, "Nuclear Design Methodology Using CASMO-3/Simulate-3P."

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DUKE POWER

January 24, 1990

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

Subject: Oconee Nuclear Station
Docket Nos. 50-269, -270, -287
McGuire Nuclear Station
Docket Nos. 50-369, -370
Catawba Nuclear Station
Docket Nos. 50-413, -414
Nuclear Design Methodology Using
CASMO-3/SIMULATE-3P, DPC-NE-1004

Gentlemen:

Please find enclosed for your review twenty-three copies of topical report DPC-NE-1004, "Nuclear Design Methodology Using CASMO-3/SIMULATE-3P". This report presents the CASMO-3/SIMULATE-3P code sequence as a reactor model for use in reload design calculations. Descriptions of the programs utilized benchmark comparisons of measured data to calculational results, code specific reliability factors, and a description of the application of these programs to reload design are provided. These programs are presented as an alternative to those previously described in reports NFS-1001A, DPC-NF-2010A, DPC-NE-1002A, DPC-NE-1003A, and DPC-NE-2011P.

Also included are copies of Duke Power Company's calculational results using the CASMO-3/SIMULATE-3P code sequence to evaluate two standard benchmark problems. The problem descriptions were provided to Duke Power Company, and copies sent to representatives of the U.S. Nuclear Regulatory Commission, via letters from J. F. Carew (Brookhaven National Laboratory) dated April 18, 1989. These results are provided to aid evaluation of Duke Power Company's competence in the use of the CASMO-3/SIMULATE-3P code sequence.

If there are any questions, or you require additional information, please call Scott Gewehr at (704) 373-7581.

Very truly yours,

Hal B. Tucker

SAG204/lcs

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