

DUKE POWER COMPANY

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HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

July 18, 1984

TELEPHONE
(704) 373-4531

Mr. Harold R. Denton
Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555

Attention: Ms. E. G. Adensam, Chief (40)
Licensing Branch No. 4

Re: McGuire Nuclear Station
Catawba Nuclear Station
Docket Nos. 50-369, -370, -413, -414

Dear Mr. Denton:

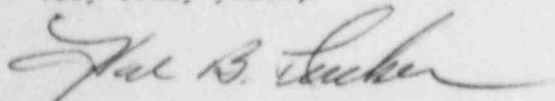
Please find attached for your review forty (40) copies of Duke Power Company topical report DPC-NF-2010. This report describes the nuclear physics methodology for reload design at the McGuire and Catawba Nuclear Stations. This report is the first of a sequence of topical reports related to reload design at these stations. This report contains descriptions of fuel, physics codes, fuel cycle design methods, and derivation of core physics parameters. Statistical benchmarks are also presented which quantify reactivity and power distribution uncertainties.

Duke Power Company's objective is to utilize this methodology in the design of McGuire 2 Cycle 3. The reload design for this core will be completed in June of 1985 with Cycle 3 startup approximately December of 1986. Approval of this report is desired by January of 1985.

Pursuant to 10 CFR 170.3(s), 170.12(f), and 170.21, Duke Power proposes that this topical report constitutes a "special project" requiring a \$150 application fee with a maximum charge for the review/approval not to exceed \$20,000. Therefore, enclosed is a check for \$150, with any further charges to be billed at a later date.

We would be pleased to meet with your staff to discuss this matter at your convenience.

Very truly yours,



Hal B. Tucker

LHF/ibh

Attachment

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PDR ADOCK 05000369
P PDR

IE26
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Rec'd w/ check \$150.00
EXTRAS TO BC