

DUKE POWER COMPANY

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May 26, 1983

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

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

Re: McGuire Nuclear Station
Docket Nos. 50-369
Unit 1/ Cycle 2 OFA Core Design

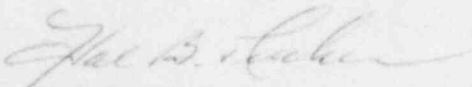
Dear Mr. Denton:

The following description of the McGuire Nuclear Station Unit 1/Cycle 2 reload core is provided for your scheduling and planning purposes. This reload batch will utilize Westinghouse's optimized fuel assemblies (OFA).

The reload region (Region 4) for Cycle 2 of the W. B. McGuire Unit 1 reactor will consist of sixty (60) fuel assemblies. All fuel assemblies of Region 4 will be 17 x 17 Optimized Fuel Assemblies enriched to 3.2 weight-percent ²³⁵U. WCAP-9500, "Reference Core Report 17 x 17 Optimized Fuel Assembly," July 1979, describes the mechanical, thermal-hydraulic, and nuclear physics characteristics of the Optimized Fuel Assembly. Comparisons are also made in this report between the Region 4 assemblies and those comprising Regions 1, 2, and 3.

To Duke Power Company's knowledge, the McGuire 1 Cycle 2 core will be the first core with an entire reload consisting of OFA's.

Very truly yours,



Hal B. Tucker

PBN:jfw

cc: Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street NW, Suite 2900
Atlanta, Georgia 30303

Mr. W. T. Orders
NRC Resident Inspector
McGuire Nuclear Station

Boo!
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