DUKE POWER COMPANY
P.O. BOX 33189
CHARLOTTE, N.C. 28242

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

March 21, 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, 50-370

Dear Mr. Denton:

Attached is additional information concerning methodology for calculating 40-year normal operating dose rates. This information was requested in a telecon between Duke Power Company representatives and Mr. Larry Bell of the Accident Assessment Branch. This is supplementary information to that transmitted in my letter of February 14, 1983. Please advise if there are additional questions concerning this matter.

Very truly yours,

Hal B. Tucker

Hal B. Tucker

GAC/php
Attachment

cc: Mr. W. T. Orders
NRC Senior Resident Inspector
McGuire Nuclear Station

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

B001

8303240381 830221
PDR ADOCK 05000369
P PDR

McGuire Nuclear Station

Units 1 and 2

VI. 40-Year Normal Operation

Reactor coolant design basis activities are based on operation with defects in cladding resulting in a failed fuel fraction of 1%. Credit for radioactivity removal is taken in accordance with NUREG 0017. The 40-year normal operation dose in Rads is calculated by multiplying an area dose rate in Rads per hour by 8760 hours per year and 40 years per lifetime of the plant.