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

HAL B. TUCKER
VICE PRESIDENT
NUCLEAR PRODUCTION

TELEPHONE
(704) 373-4531

November 17, 1982

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:

On November 5, 1982 McGuire Unit 1 was shut down after operating for 3½ months. This operating period included 720 hours at power levels between 50 percent and 75 percent. The basis for this period of operation was described in my letter of August 3, 1982.

During this shutdown eddy current testing (ECT) of Rows 47, 48 and 49 in all four steam generators was performed. Additionally, in steam generator A, Row 46 was inspected due to the fact that more indications were observed in steam generator A. Based on this ECT examination, a total of six tubes were plugged, five in steam generator A and one tube in steam generator C. The tube plugged in steam generator C (R49-C40) had the largest observed wear scar (~20 percent) at the last inspection and was expected to be plugged during the November outage. This tube had worn to approximately 40 percent through-wall.

The five tubes plugged in steam generator A all exhibited indications of ~25 percent. These tubes were plugged since their projected wear rates would increase the indications to greater than 40 percent through-wall with another operating cycle similar to the August to November cycle just completed. No tubes were plugged in steam generators B and D.

A detailed tube by tube listing of the ECT results is being prepared for submittal to the NRC Staff. This submittal will include Duke Power Company's evaluation of tube wear rates and a proposed program for operation of McGuire above 50 percent power, if warranted. In the interim we have concluded that the unit can be operated at 50 percent power with no significant steam generator tube wear. This conclusion is based on:

1) Results of ECT conducted after operation at 50 percent power in November 1981, and

2) Results of ECT conducted at Almaraz after 3000 hours at 50 percent power

A001

In the case of Almaraz, it should be noted that no additional tube degradation was observed after 3000 hours at 50 percent power, since Almaraz had previously

experienced accelerated tube wear and has been operating with worn tubes.

The proposal contained in this letter is similar to that in William O. Parker, Jr.'s letter of July 13, 1982. Mr. Darrell Eisenhut's letter of July 19, 1982 transmitted the Staff's evaluation of this previous proposal. In our view this evaluation is applicable to the current proposed 50 percent power operation.

The current schedule is to have McGuire Unit 1 back on line November 22, 1982. Therefore, an expedited review of this proposal is requested. Please advise if there are any questions regarding this matter.

Very truly yours,

Hal B. Tucker

GAC/php

cc: Senior Resident Inspector
McGuire Nuclear Station

Mr. James P. O'Reilly, Regional Administrator
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
Atlanta, Georgis 30303