DUKE POWER COMPANY
POWER BUILDING
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

July 13, 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 No. 50-369

Dear Mr. Denton:

On June 23, 1982 McGuire Nuclear Station Unit 1 was shut down after 720 hours of operation at 75 percent power. Eddy current testing (ECT) of all steam generators was started on June 28, 1982 and was completed July 3, 1982.

Results of the ECT indicate that some small additional wear occurred during the last period of operation at 75 percent power. Preliminary evaluation of the ECT data reveals the following indications:

"A" Steam Generator

Indications were observed on 15 tubes. Maximum depth was approximately 15 percent. Affected tubes are the same tubes which showed distorted support plate signals during the previous ECT in March, 1982.

"B" Steam Generator

No indications.

"C" Steam Generator

Eight indications observed on 6 tubes. The largest indication was on tube R49C 40. This tube previously had an indication called < 20 percent. The indication has grown to approximately 23 percent which is consistent with wear rate estimates submitted in the March 16, 1982 letter to the Staff on this subject.

B021

"D" Steam Generator

No indications.

Dr. Cass Dodd, NRC consultant from Oak Ridge National Laboratories, was present during the evaluations of the ECT data and concurs in the above preliminary results.

One tube in the "A" steam generator was plugged based on preliminary evaluation of the differential ECT data. This evaluation indicated 46 percent through wall wear. It was suspected that this was an over-estimation of the wear, but rather than wait until final evaluation of the absolute ECT data, the decision was made to plug the tube to avoid schedule delay.

Duke Power Company is presently evaluating the ECT data in detail in order to determine a plan for the next period of operation. While this plan is being formulated and the ECT data are being evaluated, we have concluded that the plant can be operated at 50 percent power with no deleterious effect on the steam generator tubes due to fretting wear. This conclusion is based on the following:

1) Results of ECT conducted after operation at 50 percent power which revealed no detectable tube degradation (November 1981).

2) Results of ECT conducted at Almaraz after 1500 hours at 50 percent power which revealed no significant tube wear.

It is our intention to submit a detailed report describing the results of the June, 1982 ECT by July 30, 1982. We believe that operation at 50 percent power in the interim is prudent pending final evaluation of the ECT. This plan is contingent upon resolution of the thermal sleeve problem.

Please advise if you have questions regarding this matter.

Very truly yours,

William O. Parker Jr. by WAH

William O. Parker, Jr.

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

Mr. P. R. Bemis
Senior Resident Inspector
McGuire Nuclear Station