

DUKE POWER COMPANY

POWER BUILDING

422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.

VICE PRESIDENT
STEAM PRODUCTION

April 9, 1982

TELEPHONE: AREA 704
373-4083

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
Electrical Penetration Qualification

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

Dear Mr. Denton:

The purpose of this letter is to provide a brief status report on the electrical penetration qualification verification testing which Duke committed to perform. One of the purposes of this testing was to verify the qualification of the D. G. O'Brien Type K module due to the failures observed during the verification testing performed by Sandia Laboratories on this type connector.

Duke Power Company's verification testing was performed by Wyle Laboratories during the period March 24 to March 31, 1982. The Type K module satisfactorily completed the test. In addition to the Type K module, several other modules were included in the test program (specifically Type C, D, E, F, and L modules). During the test, one conductor on the C module exhibited erratic behavior during the test but returned to normal at the end of the test. Four conductors associated with the E and L modules exhibited similar behavior. The C module is used in safety circuits whereas the E and L modules are used in non-safety applications. The Type D and F modules satisfactorily completed the test.

Additional testing is planned on the C, E, and L modules in an effort to determine the cause of the erratic behavior. This testing is planned for May 1982. A final test report describing the overall testing will be submitted by August 1982.

It is our conclusion that the test results to date support the adequacy of the connectors to perform in a post-accident environment. The isolated anomalies noted do not appear to represent a generic problem with the connectors, and in fact, it is not established that the problem is integral to the connector. The planned testing should enable us to pinpoint the source of the erratic performance of the five conductors in question.

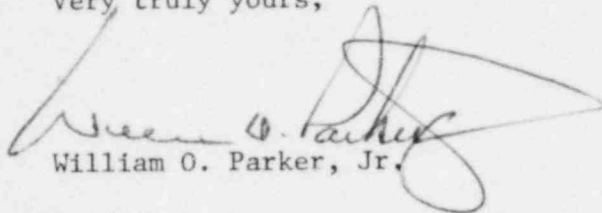
Please advise if there are questions regarding this matter.

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Mr. Harold R. Denton, Director
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Very truly yours,



William O. Parker, Jr.

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cc: Mr. James P. O'Reilly, Regional Administrator
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Mr. P. R. Bemis
NRC Senior Resident Inspector
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