

DUKE POWER COMPANY

POWER BUILDING

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WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

November 25, 1981

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

Re: McGuire Nuclear Station
Docket Nos. 50-369, 50-370
Loss of All AC Power (Generic Letter 81-04)



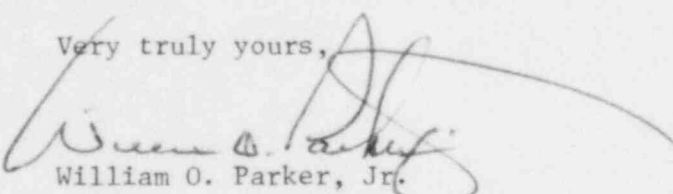
Dear Mr. Denton:

Mr. D. G. Eisenhower's (NRC/NRR) letter of February 25, 1981 (generic letter 81-04) discussed unresolved safety issue A-44 (station blackout events), and requested we review current plant operations and provide an assessment of the existing or planned facility procedures and training programs with respect to several items related to loss of all AC power.

Duke Power Company is participating in the program outlined in Westinghouse Owner's Group letter OG-56, dated April 9, 1981, and as a result revised the schedule for completion of the actions specified in generic letter 81-04 (reference letter W. O. Parker to H. R. Denton, dated June 1, 1981).

Please find attached the requested assessment for the McGuire Nuclear Station (units 1 and 2). Note that several items are generic to Westinghouse plants and are principally addressed in the Westinghouse Owners Group procedure guideline for loss of all AC power (submittal will be via Westinghouse Owners Group letter OG-64, dated November 30, 1981), while the remainder are plant specific. Should you have any questions concerning the information, please advise.

Very truly yours,


William O. Parker, Jr.

PBN:ls
Attachment

cc: Paul Bemis
Sr. Resident Inspector
McGuire Nuclear Station

Mr. James P. O'Reilly, Director
U. S. Nuclear Regulatory Commission
Region II
101 Marietta Street, Suite 3100
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Duke Power Company
McGuire Nuclear Station
Response to NRC Generic Letter 81-04 Concerns

Duke Power Company conducted a review of the current plant operations for the McGuire Station to determine the capability to mitigate a station blackout event and to implement, as necessary, emergency procedures and a training program for station blackout events. As a result of this review and our participation in the program outlined in Westinghouse Owners Group Letter OG-56 (dated April 9, 1981) the following assessment of McGuire procedures and training programs was made with respect to the concerns expressed in NRC generic letter 81-04.

As a result of generic letter 81-04, a station procedure covering loss of all AC power was written. Among the considerations used to develop this procedure were the maintenance of heat removal capability and reactor coolant inventory control with available equipment (including possible unavailability of auxiliary systems such as ventilation and component cooling); the estimated time available to restore AC power and its basis; actions required to restore emergency onsite AC power, including diesel generator loading sequence considerations and the unavailability of AC power; and precautions to prevent consequential equipment damage due to the return of AC power. These considerations were also used by Westinghouse in the development of their generic guideline for loss of all AC power. The recommendations in this guideline with respect to the above considerations have been incorporated into the loss of all AC power procedure.

In addition to the above generic considerations, various plant specific considerations were included in the development of the procedure. Restoring offsite AC power in the event of a loss of the grid by connecting to Cowans Ford Hydro Electric Station through the switchyard was incorporated into the procedure. Restoration of offsite AC power when the loss of power is due to postulated onsite equipment failures was considered in the development of the procedure. One method for power restoration is installation of a spare main step-up transformer which is maintained onsite for emergency use.

Consideration of emergency lighting requirements in equipment areas where operator or maintenance actions may be necessary is accounted for in the plants design, which provides two separate DC emergency lighting systems for the control room, auxiliary building, turbine building, and reactor building.

In addition, on-shift training has been conducted to familiarize licensed personnel with the "loss of all AC power" procedure and its bases. Annual requalification training will include simulator exercises involving loss of all AC power and training in the use of the new procedure. The loss of all AC power procedure was developed using the considerations of generic letter 81-04. Therefore, it is concluded that McGuire Nuclear Station has met the requirements established in this letter.