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NRC

50-369,370

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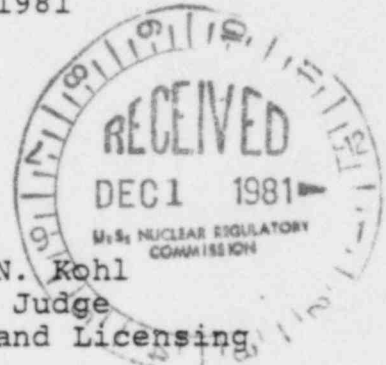
CLERK  
SERVICE

November 25, 1981

Mr. Alan S. Rosenthal  
Chairman  
Administrative Judge  
Atomic Safety and Licensing  
Appeal Board  
U.S. Nuclear Regulatory  
Commission  
Washington, D.C. 20555

Dr. John H. Buck  
Administrative Judge  
Atomic Safety and Licensing  
Appeal Board  
U.S. Nuclear Regulatory  
Commission  
Washington, D.C. 20555

Ms. Christine N. Kohl  
Administrative Judge  
Atomic Safety and Licensing  
Appeal Board  
U.S. Nuclear Regulatory  
Commission  
Washington, D.C. 20555



Dear Members of the Board:

At the oral argument in this proceeding on September 10, 1981, Duke Power Company committed to inform the Appeal Board and the parties (TR 63) of any changes to the currently-installed interim hydrogen mitigation system necessary to modify it to a permanent hydrogen mitigation system.

On October 30, 1981, Duke submitted to the NRC a two-volume document totalling some 300 pages entitled "An Analysis of Hydrogen Control Measures at McGuire Nuclear Station" (a copy of the transmittal letter is attached). This document describes the permanent hydrogen mitigation system at McGuire; provides reports on the status of the various research programs undertaken by Duke, and other utilities, in support of the distributed ignition concept for a hydrogen mitigation system; and provides responses to NRC questions on analyses, research programs, and equipment survivability.

The permanent hydrogen mitigation system is quite similar to the interim system. The basic differences are addition and relocation of upper plenum igniters; separation of

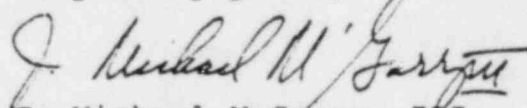
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circuits by elevation in lower containment to improve system reliability in the event of containment flooding; and installation of high-temperature cable for upper plenum igniters.

The attached cover letter notes that Duke anticipates installation of the permanent system by January 31, 1982, subject to equipment delivery constraints and an outage of sufficient duration to complete the work. I would note that since the submittal of the subject information, all the necessary equipment has been received by Duke, and installation of the permanent system is proceeding. We anticipate its completion well before January 31, 1982.

Very truly yours,

  
J. Michael McGarry, III

cc: all Parties

Enclosure

DUKE POWER COMPANY

POWER BUILDING

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

50-369,370

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

October 30, 1981

'81 NOV 27 P3:53

TELEPHONE: AREA 70A  
373-4083

SECRETARY  
LICENSING & SERVICE  
BRANCH

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

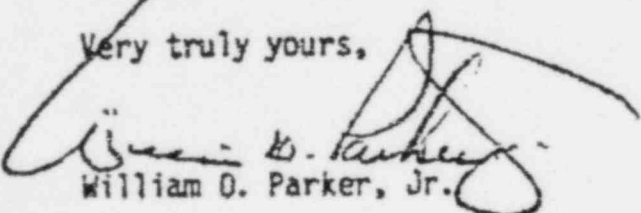
Re: McGuire Nuclear Station  
Docket Nos. 50-369, 50-370

Dear Mr. Denton:

Attached are 20 copies of a report entitled "An Analysis of Hydrogen Control Measures at McGuire Nuclear Station" dated October-1981. This report is submitted in accordance with Section 2.C.(11)h. of the McGuire Operating License. The system as described in the attached report is intended to be the permanent hydrogen control system and is expected to be installed by January 31, 1982 subject to equipment delivery constraints and a forced outage of sufficient duration to complete the remaining work inside containment.

This report will be updated as on-going research projects are completed or other circumstances arise which require changes to the document. If there are any questions regarding the attached, please advise.

Very truly yours,

  
William O. Parker, Jr.

GAC/smh

Attachment

cc: w/attachment  
M. J. Graham  
Resident Inspector  
McGuire Nuclear Station

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