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 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co.      05000287

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 DENTON, H.R.      Office of Nuclear Reactor Regulation, Director  
 STOLZ, J.F.      Operating Reactors Branch 4

SUBJECT: Forwards design proposal "Instrumentation to Detect Inadequate Core Cooling." Rept Submitted in response to NUREG-0737, Item II.F.2.

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# DUKE POWER COMPANY

POWER BUILDING

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

WILLIAM O. PARKER, JR.  
VICE, PRESIDENT  
STEAM PRODUCTION

May 25, 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: Mr. J. F. Stolz, Chief  
Operating Reactors Branch No. 4

Subject: Oconee Nuclear Station  
Docket Nos. 50-269, -270, -287

Dear Sir:

By letter dated November 17, 1981, Duke Power Company committed to provide a report of a proposed water inventory monitoring system, including engineering details and anticipated installation schedule. The attached report entitled "Instrumentation to Detect Inadequate Core Cooling" fulfills the above commitment and supplements information previously provided by letter dated January 2, 1981.

Duke Power proposes that the necessary plant modifications to fully implement the system as described in the attached report can be completed during the first refueling outage of each Oconee unit commencing after January 1, 1984. This is conditional on NRC approval of the system as described by September 30, 1982. Following NRC approval, at least 15 months are necessary to procure equipment, especially the differential pressure transmitters, and to complete the final design details of the described system.

The proposed system does not include Reactor Coolant System (RCS) inventory monitoring with Reactor Coolant Pumps operating. Existing operating guidance requires pump trip on automatic ES actuation, or at about 1500 psig. Proposed guidance contained in the Abnormal Transient Operating Guidelines (ATOG), currently under Staff review, requires pump trip on loss of subcooling margin. Currently, efforts are in progress to establish long-term criteria for tripping Reactor Coolant Pumps. Thus, indication of RCS inventory when saturated and with pumps operating is not currently needed.

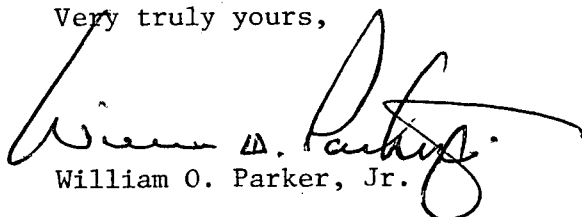
This proposed system does not require major structural changes to the plant, such as additional pressure boundary penetrations, and tie-ins to non-instrumentation lines, and is thus consistent with the guidance provided by NUREG-0578, Appendix A, page A-11.

Unless informed to the contrary, it is understood that the Staff will provide formal approval of the attached proposed system description and that the above proposed installation schedule is acceptable to the Staff.

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Mr. Harold R. Denton, Director  
May 25, 1982  
Page 2

Very truly yours,

A handwritten signature in cursive script, appearing to read "William O. Parker, Jr.", written in dark ink.

William O. Parker, Jr.

RLG/php  
Attachment

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

Mr. W. T. Orders  
NRC Resident Inspector  
Oconee Nuclear Station

Mr. Philip C. Wagner  
Office of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555