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 50-287 Oconee Nuclear Station, Unit 3, Duke Power Co. 05000287  
 AUTH. NAME AUTHOR AFFILIATION  
 PARKER, W.O. Duke Power Co.  
 RECIP. NAME RECIPIENT AFFILIATION  
 REID, R.W. Operating Reactors Branch 4

SUBJECT: Forwards B&W repts "Inadequate Core Cooling Decay Heat Removal Sys Mode of Operation" & "Analysis Summary in Support of Inadequate Core Cooling Guidelines," in response to NUREG-0578.

*see B&W Rpts (copy sent to Subject)*

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- 1) 8001280310
- 2) 8001280317

JAN 29 1980

# DUKE POWER COMPANY

POWER BUILDING

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

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

January 23, 1980

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. R. W. Reid, Chief  
Operating Reactors Branch No. 4

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

Dear Sir:

In response to NUREG-0578 and following discussions with the NRC B&O Task Force, Duke Power Company, in conjunction with the B&W Owners Group, undertook development of operator guidelines to cover several cases of inadequate core cooling.

My letter of November 9, 1979 provided an initial submittal in this regard, responding to Item 5 of IE Bulletin 79-05c, and providing two documents: "Analysis Summary in Support of Inadequate Core Cooling Guidelines for a Loss of RCS Inventory" and "Operating Guidelines for Small Breaks." This submittal covered loss of RCS inventory without the reactor coolant pumps operating; loss of RCS inventory with the reactor coolant pumps operating; and loss of natural circulation due to a loss of heat sink.

This letter submits additional guidelines covering the loss of decay heat removal case, by submitting a document entitled "Inadequate Core Cooling Decay Heat Removal System Mode of Operation." Also provided is "Analysis Summary in Support of Inadequate Core Cooling Guidelines."

At the September 13, 1979 meeting with the B&W Owners Group, the NRC Staff requested guidelines for departure from nucleate boiling (DNB) at power. The B&W analysis shows that DNB at power is not a credible situation. The explanation and supporting analysis summary are attached.

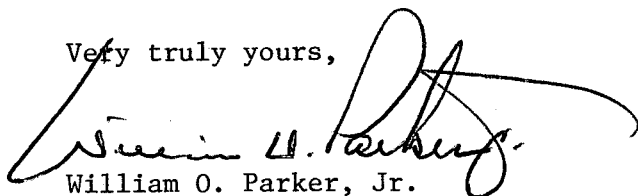
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Mr. Harold R. Denton, Director  
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These guidelines are provided for NRC Staff information and will be implemented unless otherwise directed.

Very truly yours,

A handwritten signature in dark ink, appearing to read "William O. Parker, Jr.", with a large, stylized flourish extending from the end of the signature.

William O. Parker, Jr.

RLG:scs  
Attachment