

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL

FILE NUMBER

TO: B.C. Rusche

FROM: Duke Power Co.  
Charlotte, N.C.  
W.O. Parker, Jr.

DATE OF DOCUMENT  
3-10-76  
DATE RECEIVED  
3-16-76

LETTER  
 ORIGINAL  
 COPY

NOTORIZED  
 UNCLASSIFIED

PROP

INPUT FORM

NUMBER OF COPIES RECEIVED  
1

DESCRIPTION  
Ltr. re. their ltr. of 7-9-75...  
Comments on the re-evaluation of the ECCS Cooling  
Performance.....

ENCLOSURE

DO NOT REMOVE

ACKNOWLEDGED

(1 Signed Cy. Received)

PLANT NAME: Oconee # 1,2 & 3

SAFETY

FOR ACTION/INFORMATION

ENVIRO

SAB 3-18-76

|                  |                  |                   |
|------------------|------------------|-------------------|
| ASSIGNED AD :    |                  | ASSIGNED AD :     |
| BRANCH CHIEF :   | PARR W/6         | BRANCH CHIEF :    |
| PROJECT MANAGER: | Road             | PROJECT MANAGER : |
| LIC. ASST. :     | Goulbourns (LTC) | LIC. ASST. :      |

INTERNAL DISTRIBUTION

|                     |                |                      |               |
|---------------------|----------------|----------------------|---------------|
| <del>REG FILE</del> | SYSTEMS SAFETY | PLANT SYSTEMS        | ENVIRO TECH   |
| NRC PDR             | HEINEMAN       | TEDESCO              | ERNST         |
| I & E (2)           | SCHROEDER      | BENAROYA             | BALLARD       |
| OELD                |                | LAINAS               | SPANGLER      |
| GOSSICK & STAFF     | ENGINEERING    | IPPOLITO             |               |
| MIPC                | MACCARY        |                      | SITE TECH     |
| CASE                | KNIGHT         | OPERATING REACTORS   | GAMMILL       |
| HANAUER             | SIHWEIL        | STELLO               | STEPP         |
| HARLESS             | PAWLICKI       |                      | HULMAN        |
| <del>DeYoung</del>  |                | OPERATING TECH       |               |
| PROJECT MANAGEMENT  | REACTOR SAFETY | EISENHUT             | SITE ANALYSIS |
| BOYD                | ROSS           | SHAO                 | VOLLMER       |
| P. COLLINS          | NOVAK (3)      | BAER                 | BUNCH         |
| HOUSTON             | ROSZTOCZY      | SCHWENCER            | J. COLLINS    |
| PETERSON            | CHECK          | GRIMES               | KREGER        |
| MELTZ               |                |                      |               |
| HELTEMES            | AT & I         | SITE SAFETY & ENVIRO |               |
| SKOVHOLT            | SALTZMAN       | ANALYSIS             |               |
|                     | RUTBERG        | DENTON & MULLER      |               |

EXTERNAL DISTRIBUTION

CONTROL NUMBER

|                       |             |                     |      |
|-----------------------|-------------|---------------------|------|
| LPDR: Waltham, S.C.   | NATL LAB    | BROOKHAVEN NATL LAB | 2644 |
| TIC                   | REG. V-IE   | ULRIKSON(ORNL)      |      |
| NSIC                  | LA PDR      |                     |      |
| ASLB                  | CONSULTANTS |                     |      |
| ACRS 1/6 HOLDING/SENT |             |                     |      |

Rec'd

File Cyd

# DUKE POWER COMPANY

POWER BUILDING

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

WILLIAM O. PARKER, JR.  
VICE PRESIDENT  
STEAM PRODUCTION

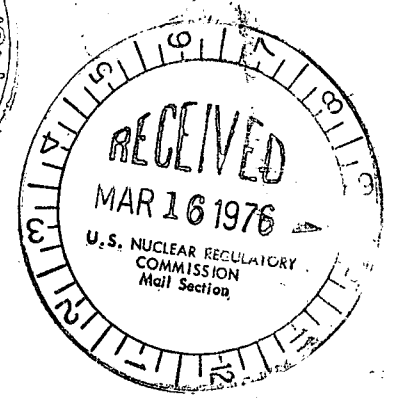
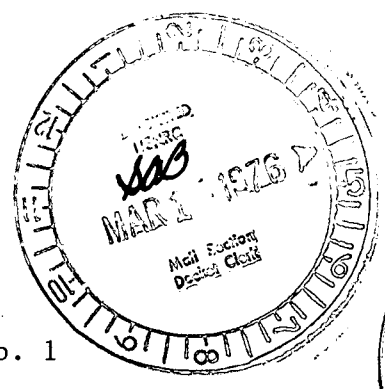
TELEPHONE: AREA 704  
373-4083

March 10, 1976

Mr. Benard C. Rusche  
Director of Nuclear Reactor Regulation  
U. S. Nuclear Regulatory Commission  
Washington, D. C. 20555

Attention: Mr. R. A. Purple, Chief  
Operating Reactors Branch No. 1

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



Dear Sir:

My letter dated July 9, 1975 described a re-evaluation of the ECCS cooling performance which had been accomplished for the Oconee Nuclear Station, Units 1, 2 and 3. The model utilized in the performance of this re-evaluation is described in Babcock and Wilcox (B&W) non-proprietary Topical Report BAW-10104, "B&W's ECCS Evaluation Model". In non-proprietary Topical Report BAW-10103, "ECCS Evaluation of B&W's 177 FA Lowered Loop NSS", a description of the results of the re-evaluation for a generic B&W unit of the Oconee class was presented. This analysis showed that Oconee Units 2 and 3 were conservative in relation to the generic analysis provided in BAW 10103. In the case of Oconee 1, portions of the analysis presented in BAW 10103 were also performed utilizing specific Oconee 1 parameters and was included as attachment 2 to the July 9, 1975 submittal.

In Section 4.6 of BAW 10103 and Section 3.5 of the specific Oconee 1 analysis, the worst single failure postulated is the loss of a diesel, following loss of off-site power, which results in the operation of only one LPI and one HPI pump. The Oconee emergency power system uses two hydro-electric generating units instead of diesels and a single failure of one of these sources will have no effect upon ECCS performance. However, failure of a 4160 volt switchboard could cause the loss of one HPI and one LPI pump, but there is no possibility of a common mode failure which will result in the loss of more than one 4160 volt switchboard. Therefore, although the failure mechanism for the Oconee

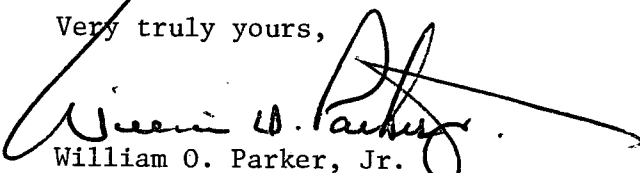
Mr. Bernard C. Rusche

March 10, 1976

Page 2

units is different from that described in BAW 10103 and the specific Ocone 1 analysis, the worst case single failure still results in the operation of only one HPI and one LPI pump, and the conclusions of the analyses remain valid.

Very truly yours,



William O. Parker, Jr.

MST:mmb

8