

FILE: \_\_\_\_\_

FROM: Duke Power Company Charlotte, N.C. 28201 Mr. A.C. Thies			DATE OF DOC 11-28-73	DATE REC'D 11-30-73	LTR X	MEMO	RPT	OTHER
TO: A. Giambusso			ORIG 3 signed	CC	OTHER	SENT AEC PDR <u>XXX</u> SENT LOCAL PDR <u>XXX</u>		
CLASS	UNCLASS XXX	PROP INFO	INPUT XXX	NO CYS REC'D 40		DOCKET NO: <u>50-269</u> /270		

DESCRIPTION:  
Ltr notarized 11-28-73, requesting a change to tech specs for the Oconee Units 1 & 2....trans the following.....

PLANT NAME: Oconee

ENCLOSURES:  
Replacement page 3.1-12, which reflects the proposed change to tech specs..

(40 cys encl rec'd)

**ACKNOWLEDGED**

FOR ACTION/INFORMATION 11-30-73 JB

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| CASE  | KNIGHT             | BALLARD        | LEE (L)  | <u>PLANS</u>                              |
| GIAMBUSO  | PAWLICKI           | SPANGLER       | MAIGRET (L)  | MCDONALD                                  |
| BOYD  | SHAO               |                | SERVICE (L)  | <input checked="" type="checkbox"/> DUBE  |
| MOORE (L) (BWR)   | STELLO             | <u>ENVIRO</u>  | SHEPPARD (E)                                       | <u>INFO</u>                               |
| <input checked="" type="checkbox"/> DEYOUNG(L) (PWR)    | HOUSTON            | MULLER         | SMITH (L)  | C. MILES                                  |
| SKOVHOLT (L)  | NOVAK              | DICKER         | TEETS (L)  | <input checked="" type="checkbox"/> Cable |
| P. COLLINS  | ROSS               | KNIGHTON       | WADE (E)   |   |
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| MORRIS  | LONG               | PROJECT LDR    |  |   |
| STEELE  | LAINAS             |                |  |   |
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| 1 - ASLB(YORE/SAYRE/<br>WOODARD/"H" ST.   | 1-CONSULTANT'S<br>NEWMARK/BLUME/AGBABIAN | 1-AGMED(Ruth Gussman)<br>RM-B-127, GT. |
| <input checked="" type="checkbox"/> 16 - CYS ACRS <del>HOLDING</del> Sent to Goulbourne<br>11-30-73 | 1-GERALD ULRIKSON...ORNL                 | 1-RD..MULLER..F-309 GT                 |

*appl  
kan*

DUKE POWER COMPANY

POWER BUILDING

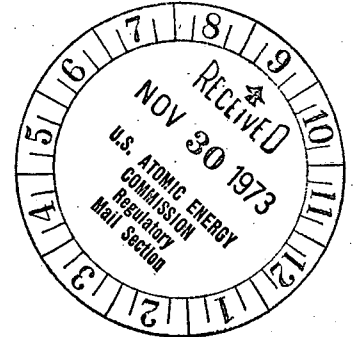
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28201

A. C. THIES  
SENIOR VICE PRESIDENT  
PRODUCTION AND TRANSMISSION

P. O. Box 2178

November 28, 1973

Mr. Angelo Giambusso  
Deputy Director for Reactor Projects  
Directorate of Licensing  
Office of Regulation  
U. S. Atomic Energy Commission  
Washington, D. C. 20545



Re: Oconee Units 1 and 2  
Docket Nos. 50-269 and -270

Dear Mr. Giambusso:

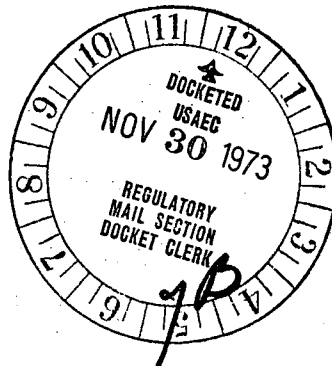
The Oconee Nuclear Station Technical Specifications, Appendix A to Facility Operating Licenses DPR-38 and DPR-47, require that the chloride and fluoride concentrations in the primary coolant be maintained at or less than 0.1 ppm. (Technical Specifications 3.1.5.2 and 3.1.5.3) It is requested that these technical specifications be modified such that if the chloride or fluoride concentration exceeds 0.15 ppm, corrective action shall be initiated within eight hours to return the chloride or fluoride levels to less than or equal to 0.15 ppm.

Regulatory Guide 1.44, "Control of the Use of Sensitized Stainless Steel," states that chloride and fluoride concentrations should be maintained at less than 0.15 ppm. Duke Power Company and the Babcock & Wilcox Company have reviewed this proposed change and have concluded that maintaining the chloride and fluoride concentration in the reactor coolant within 0.15 ppm protects the reactor coolant system against potential stress corrosion attack. Please find attached replacement page 3.1-12 for the Oconee Technical Specifications which reflects the requested change.

Very truly yours,

A. C. Thies

ACT:vr



Mr. Angelo Giambusso  
Page 2  
November 28, 1973

A. C. THIES, being duly sworn, states that he is Senior Vice President of Duke Power Company; that he is authorized on the part of said company to sign and file with the Atomic Energy Commission this request for amendment of the Oconee Nuclear Station Technical Specifications, Appendix A to Facility Operating Licenses DPR-38 and DPR-47; and that all statements and matters set forth therein are true and correct to the best of his knowledge.

*A. C. Thies*

A. C. Thies, Senior Vice President

ATTEST:

*John C. Goodman, Jr.*  
John C. Goodman, Jr.  
Assistant Secretary

Subscribed and sworn to before me this 28th day of November, 1973.

*Edna B. Farmer*  
Notary Public

My Commission Expires:

*October 24, 1977*

### 3.1.5 Chemistry

#### Specification

- 3.1.5.1 If the concentration of oxygen in the primary coolant exceeds 0.1 ppm during power operation, corrective action shall be initiated within eight hours to return oxygen levels to  $\leq 0.1$  ppm.
- 3.1.5.2 If the concentration of chloride in the primary coolant exceeds 0.15 ppm during power operation, corrective action shall be initiated within eight hours to return chloride levels to  $\leq 0.15$  ppm.
- 3.1.5.3 If the concentration of fluorides in the primary coolant exceeds 0.15 ppm following modifications or repair to the primary system involving welding, corrective action shall be initiated within eight hours to return fluoride levels to  $\leq 0.15$  ppm.
- 3.1.5.4 If the concentration limits of oxygen, chloride or fluoride in 3.1.5.1, 3.1.5.2 and 3.1.5.3 above are not restored within 24 hours the reactor shall be placed in a hot shutdown condition within 12 hours thereafter. If the normal operational limits are not restored within an additional 24-hour period, the reactor shall be placed in a cold shutdown condition within 24-hours thereafter.
- 3.1.5.5 If the oxygen concentration and the chloride or fluoride concentration of the primary coolant system individually exceed 1.0 ppm. the reactor shall be immediately brought to the hot shutdown condition using normal shutdown procedure and action is to be taken immediately to return the system to within normal operation specifications. If normal operating specifications have not been reached in 12 hours, the reactor shall be brought to a cold shutdown condition using normal procedure.

#### Bases

By maintaining the chloride, fluoride and oxygen concentration in the reactor coolant within the specifications, the integrity of the reactor coolant system is protected against potential stress corrosion attack. (1,2)

The oxygen concentration in the reactor coolant system is normally expected to be below detectable limits since dissolved hydrogen is used when the reactor is critical and a residual of hydrazine is used when the reactor is subcritical to control the oxygen. The requirement that the oxygen concentration not exceed 0.1 ppm during power operation is added assurance that stress corrosion cracks will not occur. (4)

If the oxygen, chloride, or fluoride limits are exceeded, measures can be taken to correct the condition (e.g., switch to the spare demineralizer, replace the ion exchange resin, increase the hydrogen concentration in the makeup tank, etc.) and further because of the time dependent nature of any adverse effects arising from chlorides or oxygen concentrations in excess of the limits, it is unnecessary to shutdown immediately, since the condition can be corrected.