

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 5570

FILE:

FROM: Duke Power Company Charlotte, N. C. 28201 A. C. Thies		DATE OF DOC 7-17-73	DATE REC'D 7-19-73	LTR X	MEMO	RPT	OTHER
TO: Mr. Giambusso		ORIG 1 signed	CC	OTHER	SENT AEC PDR X SENT LOCAL PDR X		
CLASS XX	UNCLASS	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-269		
DESCRIPTION: Ltr trans the following:				ENCLOSURES: REPORT: Abnormal Occurrence Report AO-269/73-2, "Incore Instrument Tube Leak."  <b>ACKNOWLEDGED</b> <b>Do Not Remove</b>  ( 1 cy rec'd)			
PLANT NAME: Oconee Unit#1		FOR ACTION/INFORMATION		7-20-73	AB		

- |                        |                              |                            |                       |
|------------------------|------------------------------|----------------------------|-----------------------|
| BUTLER(L)<br>W/ Copies | ✓ SCHWENCER(L)<br>W/7 Copies | ZIEMANN(L)<br>W/ Copies    | REGAN(E)<br>W/ Copies |
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INTERNAL DISTRIBUTION

- |                    |             |             |                  |                       |
|--------------------|-------------|-------------|------------------|-----------------------|
| ✓ REG FILE         | TECH REVIEW | DENTON      | LIC ASST         | A/T IND               |
| ✓ AEC PDR          | ✓ HENDRIE   | GRIMES      | BROWN (E)        | BRAITMAN              |
| ✓ OGC, ROOM P-506A | SCHROEDER   | GAMMILL     | DIGGS (L)        | SALTZMAN              |
| ✓ MUNTZING/STAFF   | ✓ MACCARY   | KASTNER     | GEARIN (L)       | PLANS                 |
| ✓ CASE             | ✓ KNIGHT    | BALLARD     | ✓ GOULBOURNE (L) | MCDONALD              |
| GIAMBUSSO          | ✓ PAWLICKI  | SPANGLER    | LEE (L)          | DUBE                  |
| BOYD               | ✓ SHAO      |             | MAIGRET (L)      |                       |
| MOORE (L)(BWR)     | ✓ STELLO    | ENVIRO      | SERVICE (L)      | INFO                  |
| ✓ DEYOUNG(L)(PWR)  | ✓ HOUSTON   | MULLER      | SHEPPARD (E)     | C. MILES              |
| SKOVHOLT (L)       | ✓ NOVAK     | DICKER      | SMITH (L)        | ✓ B. KING(REG OPR E/W |
| P. COLLINS         | ✓ ROSS      | KNIGHTON    | TEETS (L)        | Bldg - OOE            |
| REG OPR            | ✓ IPPOLITO  | YOUNGBLOOD  | WADE (E)         |                       |
| ✓ FILE & REGION(3) | ✓ TEDESCO   | REGAN       | WILLIAMS (E)     |                       |
| ✓ MORRIS           | ✓ LONG      | PROJECT LDR | WILSON (L)       |                       |
| ✓ STEELE           | ✓ LAINAS    |             |                  |                       |
|                    | ✓ BENAROYA  | HARLESS     |                  |                       |
|                    | ✓ VOLLMER   |             |                  |                       |

EXTERNAL DISTRIBUTION

- |                         |                       |                              |                        |
|-------------------------|-----------------------|------------------------------|------------------------|
| ✓ 1 - LOCAL PDR         | Walhalla, S. C.       |                              |                        |
| ✓ 1 - DTIE(ABERNATHY)   |                       | (1)(2)(9)-NATIONAL LAB'S     | 1-PDR-SAN/LA/NY        |
| ✓ 1 - NSIC(BUCHANAN)    |                       | 1-R.Schoonmaker, OC,GT,D-323 | 1-GERALD LELLOUCHE     |
| 1 - ASLB(YORE/SAYRE/    |                       | 1-R. CATLIN, E-256-GT        | BROOKHAVEN NAT. LAB    |
| WOODARD/"H" ST.         |                       | 1-CONSULTANT'S               | 1-AGMED(WALTER KOESTER |
| ✓ 16 - CYS ACRS HOLDING | SENT TO LIC ASST.     | NEWMARK/BLUME/AGBABIAN       | RM-C-427-GT            |
|                         | GOULBOURNE ON 7-20-73 | 1-GERALD ULRIKSON...ORNL     | 1-RD..MULLER..F-309 GT |

## 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

July 17, 1973


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

Re: Oconee Unit 1  
Docket No. 50-269

Dear Mr. Giambusso:

Pursuant to Section 6.2 and 6.6.2 of the Oconee Nuclear Station Unit 1  
Technical Specifications, please find attached Abnormal Occurrence  
Report AO-269/73-2, "Incore Instrument Tube Leak."

Very truly yours,

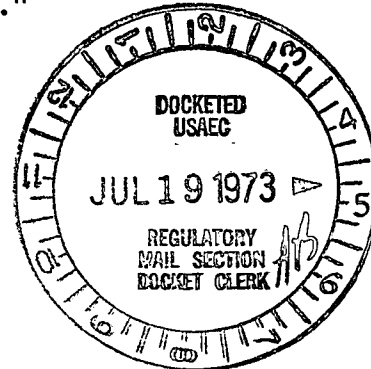


A. C. Thies

ACT:vr

Attachment

cc: Mr. Norman C. Moseley, Director  
Directorate of Regulatory Operations  
Region II - Suite 818  
230 Peachtree Street, Northwest  
Atlanta, Georgia 30303



DUKE POWER COMPANY  
OCONEE NUCLEAR STATION - UNIT 1  
ABNORMAL OCCURRENCE REPORT  
AO-269/73-2  
INCORE INSTRUMENT TUBE LEAK

Introduction

On May 19, 1973, while performing Test Procedure TP/1/B/800/27, "Incore Instrumentation Calibration," it was discovered that the incore instrument tube #46 was leaking into the incore instrument handling tank. Since there are no isolation valves on these lines, this leakage was stopped by freezing a portion of the tube with liquid nitrogen. Regulatory Operations Region II office was verbally notified of the incident on May 19, 1973.

Description of the Incident

Oconee instrument personnel entered the Unit 1 incore instrument handling tank on May 19, 1973, to perform test procedure TP/1/B/800/27, "Incore Instrumentation Calibration." They noticed some leakage through instrument tube #46 and immediately left the area to inform appropriate supervisory personnel. Subsequently, the leakage through this tube was determined to be 1/16 gallon per minute. Gaseous, air particulate, and liquid samples were taken in the incore instrument handling tank and analyzed for radioactivity. The leakage conditions were evaluated by the station staff to pose no serious health or safety problems to the public or to station personnel, and plant activities continued. Radiation and leakage monitoring continued on an hourly basis.

Corrective Action

On May 19, 1973, leakage was completely stopped by freezing a portion of the instrument tube. Liquid nitrogen was used to form an ice plug below the handling tank. On June 29, 1973, while the unit was in a cold shutdown condition, the incore instrument tube was cut just outside the handling tank, and a cap welded on to prevent leakage. The freeze seal was then removed.

Safety Analysis

Leakage through this tube was very minor (1/16 gallon per minute); external

radiation levels were minor, and loose contamination was well within controlled access area limits. This tube has a 1/8 inch OD and should it shear off completely, there is adequate capability with one high pressure injection pump, to bring the plant to a safe shutdown condition. It is concluded that the health and safety of the public was not adversely affected by this incident.