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CONTROL NO: 305

FILE: INCIDENT REPORT FILE

FROM: Duke Power Co. Charlotte, N.C. William R. Parker		DATE OF DOC 1-7-76	DATE REC'D 1-13-76	LTR XXX	TWX	RPT	OTHER
TO: Norman C. Moseley		ORIG 1 Signed	CC	OTHER	SENT AEC PDR <u>XXX</u> SENT LOCAL PDR <u>XXX</u>		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-269		
DESCRIPTION: Ltr. trans the following....				ENCLOSURES: A/O # 75-15- on 12-19-75, concerning Failure of borated water storage tank level indication.....			
PLANT NAME: Oconee # 1				ACKNOWLEDGED (1 cy Encl. Rec'd) DO NOT REMOVE			

FOR ACTION/INFORMATION

VCR-1-14-76

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INTERNAL DISTRIBUTION

<u>REG FILE</u> NRC PDR OGC, ROOM P-506A GOSSICK/STAFF CASE GIAMBUSSO BOYD MOORE (L) DEYOUNG (L) SKOVHOLT (L) GOLLER (L) (Ltr) P. COLLINS DENISE REG OPR FILE & REGION (2) MIPC/PE (3) STEELE	TECH REVIEW SCHROEDER ✓ MACCARY KNIGHT PAWLICKI SHAO ** STELLO ** HOUSTON ** NOVAK ROSS IPPOLITO TEDESCO J. COLLINS LAINAS BENAROYA VOLLMER	DENTON ** GRIMES GAMMILL KASTNER BALLARD SPANGLER ENVIRO MULLER DICKER KNIGHTON YOUNGBLOOD REGAN PROJECT LDR HARLESS	LIC ASST R. DIGGS (L) H. GEARIN (L) E. GOULBOURNE (L) P. KREUTZER (E) J. LEE (L) M. RUSHBROOK (L) S. REED (E) M. SERVICE (L) ✓ S. SHEPPARD (L) M. SLATER (E) H. SMITH (L) S. TEETS (L) G. WILLIAMS (E) V. WILSON (L) R. INGRAM (L) M. DUNCAN (E)	A/T IND. BRAITMAN SALTZMAN MELTZ PLANS MCDONALD CHAPMAN DUBE (Ltr) E. COUPE PETERSON HARTFIELD (2) KLECKER EISENHUT WIGGINTON F. WILLIAMS HANAUER
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EXTERNAL DISTRIBUTION

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1 - TIC (ABERNATHY) (1)(2)(10)	1 - W. PENNINGTON, Rm E-201 GT	1 - BROOKHAVEN NAT LAB
1 - NSIC (BUCHANAN)	1 - CONSULTANTS	1 - G. ULRIKSON, ORNL
1 - ASLB	1 - NEWMARK/BLUME/AGBABIAN	1 - AGMED (RUTH GUSSMAN) Rm B-127 GT
1 - Newton Anderson		1 - J. D. RUNKLES, Rm E-201 GT
16 ACRS SENT TO LIC ASST ** SEND ONLY TEN DAY REPORTS <i>Sheppard</i>		

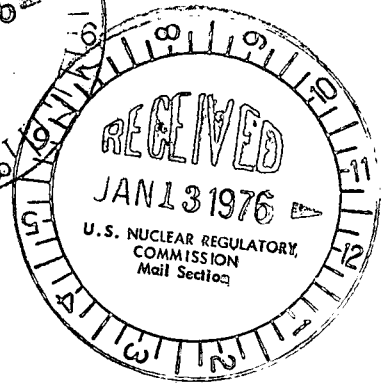
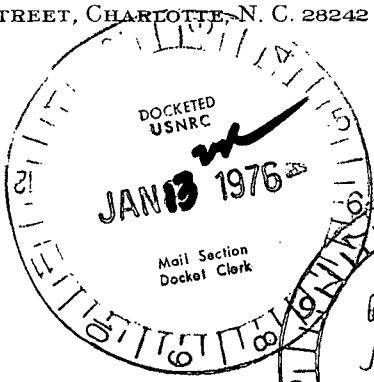
DUKE POWER COMPANY

POWER BUILDING

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

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083



January 7, 1976

Mr. Norman C. Moseley, Director
U. S. Nuclear Regulatory Commission
Suite 818
230 Peachtree Street, Northwest
Atlanta, Georgia 30303

Re: Oconee Unit 1
Docket No. 50-269

Dear Mr. Moseley:

Pursuant to Sections 6.2 and 6.6.2 of the Oconee Nuclear Station Technical Specifications, please find attached Abnormal Occurrence Report AO-269/75-15.

Very truly yours,

William O. Parker, Jr.
William O. Parker, Jr.

EDB:mmb

Attachment

CC Mr. Benard C. Rusche

DUKE POWER COMPANY

OCONEE UNIT 1

Report No.: AO-269/75-15

Report Date: January 7, 1976

Occurrence Date: December 19, 1975

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: Failure of borated water storage tank level indication

Conditions Prior to Occurrence: Unit at 100% full power

Description of Occurrence:

On December 19, 1975, both channels of the Oconee Unit 1 BWST level instrumentation failed as a result of freezing of moisture in the impulse lines to the level transmitters. Technical Specification 3.3.1.8 requires that both channels of BWST level instrumentation be operable. Reactor power was immediately reduced and a shutdown initiated. Within 3.5 hours, one level channel was put back into service by running a separate impulse line to the level transmitter. Reactor power had been decreased to 65%, and the shutdown was terminated. Both channels were returned to service approximately 14 hours later.

Apparent Cause of Occurrence:

The apparent cause of this occurrence was the failure of trace heating to the level instrumentation air lines. Consequently, the very low ambient air temperature (16°F) caused moisture entrained in the lines to freeze, resulting in instrument failure. Investigation indicated that an electrical short had occurred in one of the trace heating lines. Since the two lines are connected in series, the other line was electrically open and also inoperable.

Analysis of Event:

Although there was no BWST level instrumentation for approximately 3½ hours, the tank showed a normal level of 48 feet when indication was restored. No leaks were detected, and it is concluded that the tank level remained normal during the time that no indication was available. Therefore, adequate borated water was available for HPI, LPI, and Reactor Building spray in the event of an Engineered Safeguards actuation. It is concluded that the health and safety of the public was not affected by this occurrence.

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Corrective Action:

A station modification was initiated to provide power for the heat tracing on each BWST level transmitter from an independent power source, thereby providing redundancy between the two heat tracing lines. This modification has been completed on the Unit 1 BWST heat tracing and will be implemented on Units 2 and 3 by March 15, 1976.

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