

AEC DISTRIBUTION FOR PART 50 DOCKET MATERIAL  
(TEMPORARY FORM)

CONTROL NO: 9141

FILE:

FROM: Duke Power Company Charlotte, NC 28201 A C Thies		DATE OF DOC 8-30-74	DATE REC'D 9-5-74	LTR XXX	TWX	RPT	OTHER
TO: Mr Moseley		ORIG 1 signed	CC	OTHER	SENT AEC PDR XX SENT LOCAL PDR XX		
CLASS	UNCLASS	PROP INFO	INPUT	NO CYS REC'D	DOCKET NO:		
	XXX			1	50-269		

DESCRIPTION:

Ltr trans the following:

**DO NOT REMOVE**

PLANT NAME: Oconee #1

ENCLOSURES:

REPORT: Abnormal Occurrence#74-13 on 8-16-74 re inadvertent radioactive waste gas release.....

**ACKNOWLEDGED**

FOR ACTION/INFORMATION 9-5-74 ehf

BUTLER (L)	SCHWENCER (L)	ZIEMANN (L)	REGAN (E)
W/ CYS	W/ CYS	W/ CYS	W/ CYS
CLARK (L)	STOLZ (L)	DICKER (E)	LEAR
W/ CYS	W/ CYS	W/ CYS	W/ CYS
FARE (L)	VASSALLO (L)	KNIGHTON (E)	
W/ CYS	W/ CYS	W/ CYS	W/ CYS
KNIEL (L)	PURPLE (L)	YOUNGBLOOD (E)	
W/ CYS	W/ CYS	W/ CYS	W/ CYS

INTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> REG FILE	<u>TECH REVIEW</u>	DENTON	LIC ASST	A/T IND
<input checked="" type="checkbox"/> AEC PDR		GRIMES	DIGGS (L)	BRAITMAN
<input checked="" type="checkbox"/> OGC	<input checked="" type="checkbox"/> SCHROEDER	GAMMILL	GEARIN (L)	SALTZMAN
<input checked="" type="checkbox"/> MUNTZING/STAFF	<input checked="" type="checkbox"/> MACCARY	KASTNER	GOULBOURNE (L)	B. HURT
<input checked="" type="checkbox"/> CASE	<input checked="" type="checkbox"/> KNIGHT	BALLARD	KREUTZER (E)	
GIAMBUSSO	<input checked="" type="checkbox"/> PAWLICKI	SPANGLER	LEE (L)	PLANS
BOYD	<input checked="" type="checkbox"/> SHAO		MAIGRET (L)	MCDONALD
MOORE (L)(LWR-2)	<input checked="" type="checkbox"/> STELLO	<u>ENVIRO</u>	REED (E)	CHAPMAN
DEYOUNG (L)(LWR-1)	<input checked="" type="checkbox"/> HOUSTON	MULLER	SERVICE (L)	DUBE w/input
SKOVHOLT (L)	<input checked="" type="checkbox"/> NOVAK	DICKER	<input checked="" type="checkbox"/> SHEPPARD (L)	E. COUPE
GOLLER (L)	<input checked="" type="checkbox"/> ROSS	KNIGHTON	SLATER (E)	
P. COLLINS	<input checked="" type="checkbox"/> IPPOLITO	YOUNGBLOOD	SMITH (L)	<input checked="" type="checkbox"/> D. THOMPSON (2)
DENISE	<input checked="" type="checkbox"/> TEDESCO	REGAN	TEETS (L)	<input checked="" type="checkbox"/> KLECKER
<input checked="" type="checkbox"/> REG OPR	<input checked="" type="checkbox"/> LONG	PROJECT MGR	WILLIAMS (E)	<input checked="" type="checkbox"/> EISENHUT
FILE & REGION (2)	<input checked="" type="checkbox"/> LAINAS		WILSON (L)	
<input checked="" type="checkbox"/> MORRIS	<input checked="" type="checkbox"/> BENAROYA	HARLESS		
<input checked="" type="checkbox"/> STEELE	<input checked="" type="checkbox"/> VOLLMER			

EXTERNAL DISTRIBUTION

<input checked="" type="checkbox"/> 1 - LOCAL PDR <u>Walhalla, SC</u>			1-PDR-SAN/LA/NY
<input checked="" type="checkbox"/> 1 - TIC (ASERNATHY)	(1)(2)(10)	-NATIONAL LABS	1-BROOKHAVEN NAT LAB
<input checked="" type="checkbox"/> 1 - NSIC (BUCHANAN)		1-ASLBP(E/W Bldg, Rm 529)	1-G. ULRIKSON, ORNL
1 - ASLB		1-W. PENNINGTON, Rm E-201 GT	1-AGMED (RUTH GUSMAN)
1 - Newton Anderson		1-B&M SWINEBROOK, Rm E-201 GT	Rm B-127 GT
<input checked="" type="checkbox"/> 5 - ACRS SENT TO LIC ASST <u>sheppard</u>		1-CONSULTANTS	

Regulatory Docket File

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

August 30, 1974

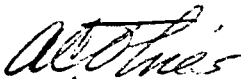
Mr. Norman C. Moseley, Director  
Directorate of Regulatory Operations  
U. S. Atomic Energy Commission  
Region II - Suite 818  
230 Peachtree Street, Northwest  
Atlanta, Georgia 30303

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-269/74-13.

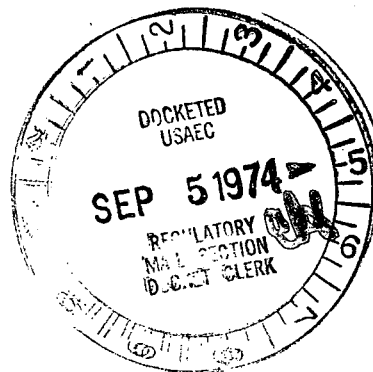
Very truly yours,



A. C. Thies

ACT:gje  
Attachment

cc: Mr. Angelo Giambusso



9141

DUKE POWER COMPANY  
OCONEE UNIT 1

Report No.: AO-269/74-13

Report Date: August 30, 1974

Occurrence Date: August 16, 1974

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: Inadvertent Radioactive Waste Gas Release

Conditions Prior to Occurrence: Unit 1 at 100 Percent Full Power

Description of Occurrence:

On August 15, 1974, a small quantity of radioactive gaseous waste was released during the performance of a routine procedure to drain accumulated moisture from Waste Gas Decay Tank B. The Utility Operator opened drain valves LWD-241, 355, 353 and 354 at 2040 to align the Waste Gas Tank to the High Activity Waste Tank in accordance with the approved procedure OP/1&2/A/1104/18, Gaseous Waste Disposal System. Between 2047 and 2123, radiation alarms were received in the spent fuel building and several locations throughout the Auxiliary Building. A Control Operator noticed that the pressure in the Waste Gas Decay Tank B had decreased from 73 to 13 psig indicating that the Waste Gas Decay Tank was being vented. The Control Room operator ordered the Waste Gas Decay Tank drain valves closed at 2055.

The Auxiliary Building was evacuated and exhaust fans were shut down at 2100. At 2130, after health physics surveys, the Auxiliary Building was re-occupied and the exhaust fans were reenergized.

Designation of Apparent Cause of Occurrence:

The procedure to drain accumulated moisture from the Waste Gas Decay Tank has a caution note to shut the drain valves as soon as water is clear of the sight glass. The operator failed to realize that the sight glass was free of liquid, however, and this resulted in venting the Waste Gas Decay Tank to the High Activity Waste Tank. The initial pressure in the tank (73 psig) contributed to the rate of release from the Waste Gas Decay Tank.

Analysis of Occurrence:

The volume of radioactive gas released to the atmosphere was calculated based upon the change in pressure of the Waste Gas Decay Tank and assuming that all of the gas which left the tank was released to the atmosphere. A total of 4300 cubic feet of gas was released during a 15 minute time period. A sample of the gas in the tank revealed the following activity levels:

Iodine 131 -  $1.29 \times 10^{-7}$   $\mu\text{Ci/ml}$ , Xenon 133 -  $0.619 \mu\text{Ci/ml}$ , Xenon 133m -  $6.9 \times 10^{-4}$   $\mu\text{Ci/ml}$  and Xenon 135 -  $1 \times 10^{-3}$   $\mu\text{Ci/ml}$ .

The objective presented in Technical Specification 3.10 is to limit the average yearly release rate. The instantaneous release rate of Iodine 131 exceeded the average yearly release rate by a small amount; however, this contribution was insignificant when compared to the amount which may be released during the year. Also, since personnel exposure was less than occupational limits, it is concluded that this occurrence did not affect the health and safety of the public.

Corrective Action:

The operating procedure for the Waste Gas System is being revised to preclude a recurrence of this incident. The procedural step to drain moisture from the Waste Gas Decay Tank is being relocated to the end of the procedure, after a normal gas release has been performed. This will allow the draining of moisture after the tank has been depressurized and will prevent inadvertent venting of the tank through its drain valves.

DUKE POWER COMPANY

POWER BUILDING

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

A. C. THIES  
SENIOR VICE PRESIDENT  
PRODUCTION AND TRANSMISSION

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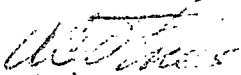
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SEP 10 1974

Letter from Duke Power Company, A. C. Thies, dated  
August 22, 1974 - 50-269

Letter from Duke Power Company, A. C. Thies, dated  
August 30, 1974 - 50-269

DISTRIBUTION:

H. D. Thornburg (2)  
RO:HQ (5)  
DR Central Files   
Regulatory Standards (3)  
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