

NRC DISTRIBUTION FOR PART 50 DOCKET MATERIAL
(TEMPORARY FORM)

CONTROL NO: 13977
FILE: INCIDENT REPORT FI

FROM: Duke Power Company Charlotte, N.C. 28242 Wm. O. Parker, Jr.		DATE OF DOC 12-8-75	DATE REC'D 12-16-75	LTR XX	TWX	RPT	OTHER
TO: Mr. Norman C. Moseley		ORIG 1 signed	CC	OTHER	SENT AEC PDR <u>XX</u> SENT LOCAL PDR <u>XX</u>		
CLASS	UNCLASS XXX	PROP INFO	INPUT	NO CYS REC'D 1	DOCKET NO: 50-270		
DESCRIPTION: Ltr trans the following:				ENCLOSURES: Unusual Event 270/75-19 on 10-31-75 re ES valve failure during reactor coolant system fill.... (1 cy encl rec'd)			
PLANT NAME: Oconee Unit 2				ACKNOWLEDGED Do Not Remove			

FOR ACTION/INFORMATION DHL 12-20-75

BUTLER (L) W/ Copies	SCHWENCER (L) W/ Copies	ZIEMANN (L) W/ Copies	REGAN (E) W/ Copies
CLARK (L) W/ Copies	STOLZ (L) W/ Copies	DICKER (E) W/ Copies	LEAR (L) W/ Copies
PARR (L) W/ Copies	VASSALLO (L) W/ Copies	KNIGHTON (E) W/ Copies	SPELS W/ Copies
KNIEL (L) W/ Copies	PURPLE (L) W/ Copies	YOUNGBLOOD (E) W/ Copies	REID W/ Copies

INTERNAL DISTRIBUTION

REG FILE NRC PDR OGC, ROOM P-506A GOSSICK/STAFF CASE	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
---	---	--	--	--

EXTERNAL DISTRIBUTION

1 - LOCAL PDR Walhalla, S.C.	1 - NATIONAL LABS	1 - PDR-SAN/LA/NY
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	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 Sheppard 12-20-75		
** SEND ONLY TEN DAY REPORTS		

DUKE POWER COMPANY

POWER BUILDING

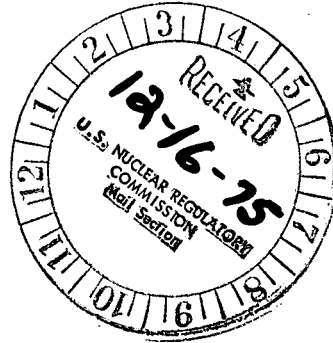
422 SOUTH CHURCH STREET, CHARLOTTE, N. C. 28242

WILLIAM O. PARKER, JR.
VICE PRESIDENT
STEAM PRODUCTION

TELEPHONE: AREA 704
373-4083

December 8, 1975

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



Re: Oconee Unit 2
Docket No. 50-270

Dear Mr. Moseley:

Pursuant to Sections 6.2 and 6.6.2 of the Oconee Nuclear Station
Technical Specifications, please find attached Unusual Event Report
UE-270/75-19.

Very truly yours,

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

EDB:mmb

Attachment

CC Mr. Benard C. Rusche



13977

DUKE POWER COMPANY
OCONEE NUCLEAR STATION

Regulatory Docket File

Report No.: UE-270/75-19

Report Date: December 5, 1975

Received 12/14/75 Dated 12-8-75

Event Date: October 31, 1975

Facility: Oconee Unit 2, Seneca, South Carolina

Identification of Event: ES valve failure during Reactor Coolant System fill

Conditions Prior to Event: Unit in Cold Shutdown

Description of Event:

On October 31, 1975, Oconee Unit 2 Reactor Coolant System was being filled following a shutdown for reactor coolant pump seal repair. An attempt was made to cycle valve 2LP-21 to complete a station modification involving replacement of thermal overloads in the valve's electrical cables. The valve, which is located in the line between the unit's borated water storage tank (BWST) and low pressure injection (LPI) pumps, opened, but failed to close and resulted in water from the BWST draining to the Reactor Coolant System. Valves 2LP-1, 2LP-2, and 2LP-3 were immediately closed, isolating the LPI reactor coolant return line from the BWST and securing the Reactor Coolant System fill through valve 2LP-21. Valve 2LP-21 was then closed manually.

Apparent Cause of Event:

This event was apparently caused by failure of the motor which operates the valve. This resulted from binding which occurred between the valve stem and the motor operator while the valve was being cycled. Investigation revealed that the four bolts securing the motor operator to the valve body were loose, causing the valve to bind when the motor was operated.

Analysis of Event:

Valve 2LP-21 is an Engineered Safeguards valve which is normally closed, but opens to supply water from the Unit 2 BWST to the LPI pumps following an ES actuation. In this incident, the valve failed to open as would have been required by an ES actuation. In addition, the redundant valve 2LP-22 was operable and is sized to supply both LPI pumps. It is concluded that the health and safety of the public was not affected.

Corrective Action:

The damaged motor on valve 2LP-21 was replaced, and the motor-operator mounting bolts were tightened. A further check revealed that the bolts securing the motor-operator to the valve body on valves 1LP-21, 1LP-22, and 2LP-22 were also loose. As a corrective measure, these bolts on valves LP-21 and LP-22 for all three Oconee units have been lock wired to prevent loosening.

Additionally, a representative sample of other ES motor-operated valves will be checked for loose bolts by January 15, 1976. If this is determined to be a generic problem, all ES motor-operated valves will have lock wires placed on the motor-operator mounting bolts.

REGISTRATION OPERATIONS
REGIONAL OFFICE
ATLANTA, GA.

Dec 11 10 05 AM '75