REGULATORY INFORMATION DISTRIBUTION SYSTEM (RIDS)

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FACIL:50-269 Oconee Nuclear Station, Unit 1, Duke Power Co. 05000269
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Region 2, Atlanta, Office of the Director

SUBJECT: LER 80-019/03L-0:on 800618,during surveillance check on CBAST pump,found pump inoperable according to Tech Spec requirement.Caused by failed vacuum compensator within valve pump.Valve diaphragm & motor replaced.

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TITLE: Incident Reports

NOTES:M Cunningham:all amends to FSAR & changes to Tech Specs. 05000269

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JUL 23 1980

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DUKE POWER COMPANY
OCONEE UNIT 1

Report Number: RO-269/80-19

Report Date: July 17, 1980

Occurrence Date: June 18, 1980

Facility: Oconee Unit 1, Seneca, South Carolina

Identification of Occurrence: Inoperable Concentrated Boric Acid Storage Tank Pump

Conditions Prior to Occurrence: 73% Full Power

Description of Occurrence:

At 0500 hours on June 18, 1980, the Concentrated Boric Acid Storage Tank (CBAST) pump was declared inoperable because of its inability to pump to the Letdown Storage Tank (LDST). This constitutes operation in a degraded mode per Technical Specification 3.2.2 and thus is reportable pursuant to Technical Specification 6.6.2.1.b(2).

Apparent Cause of Occurrence:

The pump failed due to the failure of a vacuum compensator valve within the pump, which prevented it from developing any discharge pressure. Additional inspection revealed that a diaphragm had also failed. Finally, during the retest of the pump following replacement of the vacuum compensator valve, the pump motor failed.

Analysis of Occurrence:

The ability to achieve the necessary shutdown margin in the event of an accident is dependent on the ability of the unit to borate the primary system which is done using the CBAST Pump. When the CBAST Pump is not available, the system can be borated using the Borated Water Storage Tank (BWST). Throughout the maintenance and testing period, the BWST was available, thus insuring a means of safely shutting the unit down. Furthermore, the pump was restored to operability in approximately 34 hours, well within the 72 hour limit allowed by Technical Specification 3.2.2. Thus, this incident is considered to be of no significance with respect to safe operation, and the health and safety of the public were not affected.

Corrective Action:

The immediate corrective action was to secure the pump and verify that the Borated Water Storage Tank (BWST) was available. Technical Specification 3.2.2 allows for a 72-hour maintenance period if the BWST is operable. The faulty valve, diaphragm, and motor were replaced and the pump was successfully tested. The CBAST pump was declared operable at 1515 hours on June 19, 1980, approximately 34 hours after it was taken out of service and well within the allowed 72 hour period.

NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

EXHIBIT A

CONTROL BLOCK: | | | | | | | (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0 1	LICENSEE CODE: S C N E E 1 (2)	LICENSE NUMBER: 0 0 - 0 0 0 0 0 - 0 0 (3)	LICENSE TYPE: 4 1 1 1 1 (4)	CAT (5)

CON'T

0 1	REPORT SOURCE: L (6)	DOCKET NUMBER: 0 5 0 0 0 2 6 9 (7)	EVENT DATE: 0 6 1 8 8 0 (8)	REPORT DATE: 0 7 1 7 8 0 (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 With Unit 1 at 73% FP, the CBAST pump was declared inoperable due to its
0 3 inability to pump to the LDST. Technical Specification 3.2.2 allows the pump
0 4 to be inoperable for 72 hours if the BWST is available for emergency boration.
0 5 The BWST was available and the pump was repaired and placed back in service in
0 6 about 34 hours. Thus, this incident was of no significance with respect to
0 7 safe operation or its effect on the health and safety of the public.
0 8

0 9	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
	P C (11)	E (12)	B (13)	P U M P X X (14)	C (15)	Z (16)

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	8 0	—	0 1 9	/	0 3	L	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
A (18)	A (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	Y (24)	L (25)	X 9 9 9 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 The pump failed due to a failed vacuum compensator valve. A failed diaphragm
1 1 was also found. During retesting of the pump, the pump motor failed. The
1 2 valve, diaphragm, and motor were all replaced and the pump was successfully
1 3 tested.
1 4

1 5	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
	E (28)	0 7 3 (29)	NA	A (31)	Routine operation of pump.

1 6	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
	Z (33)	Z (34)	NA	NA

PERSONNEL EXPOSURES

1 7	NUMBER	TYPE	DESCRIPTION (39)
	0 0 0 (37)	Z (38)	NA

PERSONNEL INJURIES

1 8	NUMBER	DESCRIPTION (41)
	0 0 0 (40)	NA

LOSS OF OR DAMAGE TO FACILITY (43)

1 9	TYPE	DESCRIPTION
	Z (42)	NA

PUBLICITY

2 0	ISSUED	DESCRIPTION (45)	NRC USE ONLY
	N (44)	NA	

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