NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

0 1 | [illegible] H 1 (2) | 0 0 - 0 0 0 0 0 - 0 0 (3) | 4 1 1 1 1 (4) | (5)
LICENSEE CODE | LICENSE NUMBER | LICENSE TYPE | CAT

CON'T 0 1 | REPORT SOURCE L (6) | 0 5 0 0 0 3 2 1 (7) | 0 1 1 4 8 0 (8) | 0 2 0 6 8 0 (9)
DOCKET NUMBER | EVENT DATE | REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 During normal power operation while performing operability testing on the Standby
0 3 Service Water pump, it was observed that the pump would not meet the criteria specif-
0 4 ied in the associated procedure. Maintenance was initiated to determine and resolve
0 5 the reason for failure. Immediate action was taken to comply with HNP-2 Tech Specs
0 6 4.5.J.2.a and HNP-2 Tech Specs section 3.7.1.2 by performing the associated surveil-
0 7 lance set forth in those sections. There were no effects upon public health and
0 8 safety due to this event. A similar event was reported in LER 50-321/1979-104.

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

(17) LER/RO REPORT NUMBER

EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
8 0	—	0 0 7	/	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)	N (24)	L (25)	J 1 0 5 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Investigation revealed that the cause of failure was due to the disengagement of the
1 1 pump's first stage impeller lock collet. Other lock collets on the same pump were
1 2 checked and were found to be in satisfactory condition. The pump was re-installed
1 3 and functionally tested satisfactorily following re-installation of a new lock collet
1 4 per the vendor's recommendation.

	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
1 5	E (28)	0 9 4 (29)	NA	B (31)	Surveillance Test

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

PERSONNEL EXPOSURES

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

PERSONNEL INJURIES

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

LOSS OF OR DAMAGE TO FACILITY (43)

	TYPE	DESCRIPTION
1 9	Z (42)	NA

8002150 340

PUBLICITY

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

NAME OF PREPARER C. L. Coggin, Supt. Plt. Eng. Serv. PHONE: 912-367-7781

Licensee Name: Georgia Power Company
Facility Name: Plant E. I. Hatch
Docket No.: 50-321
LER No.: 50-321/1980-007

Narrative Report for
LER #1-80-007

During normal power operation, it was discovered that the Standby Service Water Pump (2P41-C002) would not meet the criteria set forth in the surveillance procedure (HNP-1-3182, "D/G MANUAL START") and ASME section 11-IWP resulting in the pump's being declared inoperable.

The plant was immediately declared in a Limiting Condition for Operation, and action was taken to comply with HNP-1 and HNP-2 Tech Specs by performing the requirements set forth in section 4.5.J.2.A and section 3.7.1.2 respectively.

In the process of corrective maintenance, an investigation revealed that the pump's first stage impeller had been rendered inoperable as the associated lock collet had become disengaged from the impeller and shaft. This device serves as part of the driving mechanism for the shaft-impeller assembly and is "pressed fit" on a taper between the two components according to specific dimensions to ensure proper attachment to the shaft. The exact cause of the lock collet failure is not known but could be attributable to the pump being started while in reverse rotation. This condition had, in fact, been observed prior to the pump's failure due to an inoperable discharge check valve. The check valve has been repaired to prevent recurrence. Since pump initiation during reverse rotation can cause possible damage, the pump shafting and other lock collets were inspected for such damage with no consequential findings. This problem is not generic since this is the only pump on site that has this method of impeller-to-shaft attachment.