NRC FORM 366 (7-77)

U.S. NUCLEAR REGULATORY COMMISSION

8005190499

LICENSEE EVENT REPORT

Update Report, Previous Report Date 4-15-80

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

CONTROL BLOCK: (1)

0 1 | G A E I H 2 (2) | 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 6 6 (7) | 0 4 0 4 8 0 (8) | 0 5 1 2 8 0 (9)

DOCKET NUMBER | EVENT DATE | REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | With the unit in cold shutdown, a leak rate test was performed on the ADS

0 3 | valves' air supply accumulator check valves. The A/E determined that the

0 4 | leakage rates that were found were unacceptable and that a loss of air

0 5 | supply could lead to ADS inoperability. Leakage rates for corresponding

0 6 | Unit 1 valves are unknown. This event caused no threat to public health

0 7 | or safety. This is a nonrepetitive event for these valves.

0 8 |

0 9 | SYSTEM CODE S F (11) | CAUSE CODE B (12) | CAUSE SUBCODE C (13) | COMPONENT CODE V A L V E X (14) | COMP. SUBCODE C (15) | VALVE SUBCODE A (16)

LER/RO REPORT NUMBER (17): EVENT YEAR 8 0 | SEQUENTIAL REPORT NO. 0 4 5 | OCCURRENCE CODE 0 1 | REPORT TYPE X | REVISION NO. 1

ACTION TAKEN F (18) | FUTURE ACTION A (19) | EFFECT ON PLANT Z (20) | SHUTDOWN METHOD Z (21) | HOURS (22) 0 0 0 0 | ATTACHMENT SUBMITTED Y (23) | PRD 4 FORM SUB. N (24) | PRIME COMP. SUPPLIER A (25) | COMPONENT MANUFACTURER R 3 4 4 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | Cause of this event is believed to be heat damage from installation weld-

1 1 | ing. These valves will be replaced with soft-seated valves during the

1 2 | next refueling outage. Procedures for both units have been revised to

1 3 | inform operators of this failure mode. Unit 1 valves will be leak rate

1 4 | tested during the first cold shutdown of sufficient duration.

FACILITY STATUS G (28) | % POWER 0 0 0 (29) | OTHER STATUS (30) NA | METHOD OF DISCOVERY C (31) | DISCOVERY DESCRIPTION (32) Special Test

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

PERSONNEL EXPOSURES: NUMBER 0 0 0 (37) | TYPE Z (38) | DESCRIPTION (39) NA

PERSONNEL INJURIES: NUMBER 0 0 0 (40) | DESCRIPTION (41) NA

LOSS OF OR DAMAGE TO FACILITY (43): TYPE Z (42) | DESCRIPTION NA

PUBLICITY: ISSUED N (44) | DESCRIPTION (45) NA

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

LER #: 50-366/1980-045
Licensee: Georgia Power Company
Facility Name: Edwin I. Hatch
Docket #: 50-366

Narrative Report
for LER 50-366/1980-045, Rev. 1

With the unit in cold shutdown, a leak rate test was performed on the ADS valves' air supply accumulator check valves in response to IE Bulletin 80-01. Results of this test were transmitted to the A/E for analysis. The A/E determined that the leakage rates that were found were unacceptable and that a loss of air supply could lead to ADS inoperability. The procedure that dealt with the operator's response to an air supply low pressure alarm did not address this possibility.

These accumulator/check valve subsystems have no direct backup systems. The air supply to the ADS valves can be obtained from the nitrogen inerting system or the instrument air system.

An automatic interlock has been installed which will line up the supply line to nitrogen in the event of an instrument air failure. There is also a manual bypass line which can be used to supply nitrogen in the event of a failure of the automatic backup.

Both of these systems are seismic class I. No single failure mode exists which would result in a loss of air supply to the ADS valves. The accumulator check valves should never be needed to retain air supply pressure.

It is believed that this leakage was a result of heat damage to the valves which occurred during installation welding. Replacement valves, with extremely small leakage rates prior to installation, showed unacceptable leakage after welding. We were unable to obtain acceptable leakage rates for any of these valves. The A/E has specified a soft-seated model with an O-ringed cap and longer nipples in order to alleviate the heat damage problem. These soft-seated valves are on order and will be installed during the next refueling outage. Leakage rates for the Unit 1 ADS air supply accumulator check valves is unknown at this time. These valves will be leak rate tested during the next cold shutdown of sufficient duration. Procedures for both units have been revised to call for declaration of ADS inoperability upon receipt of an air supply line low pressure alarm. This provides assurance that a possibly unsafe condition will be recognized and dealt with in a controlled manner. This is a nonrepetitive occurrence. This event posed no threat to public health or safety.