

LICENSEE EVENT REPORT

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

LICENSEE CODE: GA E I H 2; LICENSE NUMBER: 00-000000-000; LICENSE TYPE: 411111; CAT 58: 45

REPORT SOURCE: L; DOCKET NUMBER: 050000366; EVENT DATE: 072782; REPORT DATE: 082682

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES: On July 27, 1982, with Unit 2 in run at 2400 MWT, Diesel Generator "C" tripped after 37 minutes of normal operation during the scheduled performance of the "Diesel Generator Manual Start" Surveillance Test. When restarted, the diesel knocked and was manually tripped and made inop. Diesels "A&B" were operable. Public health and safety were not affected by this non-repetitive incident.

SYSTEM CODE: EE; CAUSE CODE: E; CAUSE SUBCODE: X; COMPONENT CODE: ENGINE; COMP. SUBCODE: X; VALVE SUBCODE: Z; LER/RO REPORT NUMBER: 82; EVENT YEAR: 82; SEQUENTIAL REPORT NO.: 079; OCCURRENCE CODE: 03; REPORT TYPE: L; REVISION NO.: 0; ACTION TAKEN: B; FUTURE ACTION: G; EFFECT ON PLANT: A; SHUTDOWN METHOD: B; HOURS: 0195; ATTACHMENT SUBMITTED: Y; NPRD-4 FORM SUB.: N; PRIME COMP. SUPPLIER: A; COMPONENT MANUFACTURER: F010

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS: The cause of the "C" Diesel Generator's tripping was due to changes in oil and coolant temperatures and crankcase pressure caused by the initial failure of the number 8 connecting rod bearing. The engine was repaired and successfully retested.

FACILITY STATUS: E; % POWER: 099; OTHER STATUS: N/A; METHOD OF DISCOVERY: B; DISCOVERY DESCRIPTION: ROUTINE TEST/OPERATION

ACTIVITY CONTENT RELEASED OF RELEASE: Z; AMOUNT OF ACTIVITY: N/A; LOCATION OF RELEASE: N/A

PERSONNEL EXPOSURES: NUMBER: 000; TYPE: Z; DESCRIPTION: N/A

PERSONNEL INJURIES: NUMBER: 000; DESCRIPTION: N/A

LOSS OF OR DAMAGE TO FACILITY: TYPE: Z; DESCRIPTION: N/A

PUBLICITY: N; DESCRIPTION: N/A; NAME OF PREPARER: S. B. Tipps; PHONE: (912) 367-7851

8209080628 820826 PDR ADOCK 05000366 PDR S

NRC USE ONLY

LER #: 50-366/1982-079
Licensee: Georgia Power Company
Facility: Edwin I. Hatch
Docket #: 50-366

Narrative Report
for LER 50-366/1982-079

On July 27, 1982, with Unit 2 in run at 2400 MWT, Diesel Generator "2C" was being run (as per the "Diesel Generator Manual Start") procedure for normal surveillance as required by Tech. Spec. Section 4.8.1.1.2. The diesel tripped after 37 minutes of operation (see DR 2-82-186), was restarted and tripped again (see DR 2-82-193), thus failing to meet Tech. Spec. requirement 3.8.1.1.b. This spec. requires three separate independent diesel generators to be operable. The redundant diesels "2A & 2B" were proven operable and an LCO was initiated as per Tech. Spec. 3.8.1.1, action a. Public health and safety were not affected by this non-repetitive incident.

The cause of the "2C" diesel generator failure was found to be bearing failure. This engine had multiple manual starts (an estimated 120-150 fast starts) as a result of increased surveillance. The first bearing to fail was the #8 connecting rod bearing, with other bearings showing damage. During the 20-hour run-in check, one main bearing showed minor scoring. The bearing was replaced, and the entire run-in procedure was started anew.

The run-in procedure was completed satisfactorily per the vendor run-in procedure for this occurrence.

The multiple manual starts revealed that a longer pre-lube time would allow the bearings to get better lubricated before the diesel was started to help avoid bearing failures. The operating procedures were revised to incorporate a new pre-lube time as recommended by the vendor. Additionally, the remaining diesels were inspected for damage. This inspection revealed that the remaining diesels had no damage, with the exception of minor scoring of one upper main bearing on one diesel.