

COPY



Consumers  
Power  
Company

10266

General Offices: 212 West Michigan Avenue, Jackson, Michigan 49201 • Area Code 517 788-0550

June 10, 1974



Mr. John F. O'Leary, Director  
Directorate of Licensing  
US Atomic Energy Commission  
Washington, DC 25045

Re: Docket 50-155  
License DPR-6  
Big Rock Point  
AO-15-74

Dear Mr. O'Leary:

Attached is abnormal occurrence Report AO-15-74. This report covers the emergency diesel fuel pump failure which occurred on May 31, 1974.

Yours very truly,

Ralph B. Sewell (Signed)

RBS/mel

Ralph B. Sewell  
Nuclear Licensing Administrator

CC: JGKepler, USAEC

5267

ABNORMAL OCCURRENCE REPORT  
Big Rock Point Plant

10266

1. Report No: AO-15-74, Docket 50-155
2. a. Report Date: June 10, 1974.  
b. Occurrence Date: May 31, 1974.
3. Facility: Big Rock Point.
4. Identification: Emergency diesel fuel pump failure.
5. Conditions Prior to Occurrence: Unit at steady load.
6. Description of Occurrence: The diesel unit exhibited a longer cranking characteristic during starting for the weekly test on May 30 and was scheduled for additional starting on May 31. It started in 5 seconds of the 4th cycle at 0840 and was shut down by the operator. It was started again at 0900 in 3 seconds of the 1st cycle but the unit stopped operating at 0903. Investigation revealed that the fuel oil supply day tank was empty. The integral fuel transfer pump was inspected and a key on the shaft was found to be deteriorated. A new key was fabricated and installed and the diesel was test operated and declared in service at 1049 hours.
7. Designation of Cause: Appears to be component failure.
8. Analysis of Occurrence: The unit was being tested with the plant at steady-state power level and with all other station a-c and d-c power sources in normal service. Thus, we feel that no undue hazard was imposed on the facility by this failure.
9. Corrective Action: The fuel pump was repaired and the unit tested satisfactorily in less than two hours' time. The Plant Review Committee reviewed the failure and concluded that:
  - a. The pump shaft or pump should be replaced to correct the loose keyway to key fit. This unit will be replaced following procurement.
  - b. Include this pump on the annual preventive maintenance inspection.
10. Failure Data: This is the first such failure of this unit during plant history.

Name Plate Data for Fuel Pump: Roper-Hydraulic, Commerce, Ga. (USA)  
717K - 1 1/2  
SN - OA-2974

010266

# ABNORMAL OCCURRENCE REPORT

PSM

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CONTROL BLOCK: 0110266

FACILITY: CATEGORY: REPORT TYPE:

SOURCE: DOCKET #: EVENT DATE: REPORT DATE:

01 02 03 04 05 06 07 08 09 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80

DESCRIPTION OF EVENT:  
THE DIESEL UNIT STARTED BUT STOPPED  
OPERATING DURING WEEKLY TEST. FUEL PUMP  
WAS REPAIRED AND UNIT OPERABLE WITHIN  
TWO HOURS

(A0-15-74)

SYSTEM NO.: PROXIMATE CAUSE CODE: COMPONENT NUMBER:

A-PERSONNEL ERROR  
B-DESIGN ERROR  
C-EXTERNAL CAUSE  
D-PROCEDURES DEFECTIVE  
E-COMPONENT FAILURE  
F-OTHER

1.5 LE 2.3

DESCRIPTION OF CAUSE:  
FUEL TRANSFER PUMP SHAFT KEY WAS  
DETERIORATED AND FUEL OIL SUPPLY TANK  
EMPTY

STATUS OF REACTOR CODE:

A-CONSTRUCTION  
B-PREOPERATIONAL, INITIAL STARTUP AND POWER ASCENSION TESTS  
C-ROUTINE STARTUP OPERATION  
D-ROUTINE SHUTTING DOWN OPERATION  
E-STEADY STATE OPERATION AT % POWER

F-LOAD CHANGES DURING ROUTINE POWER OPERATION  
G-SHUTDOWN (HOT OR COLD, EXCEPT REFUELLING)  
H-REFUELLING  
I-OTHER, INCLUDING SPECIAL TESTS (DESCRIBE)

METHOD OF DISCOVERY (DESC.):

A-OPERATIONAL EVENT  
B-ROUTINE TEST/INSPECTION  
C-SPECIAL TEST/INSPECTION  
D-EXTERNAL SOURCE

STATUS: % POWER: OTHER STATUS: DISC.: DESCRIPTION:

FORM OF ACTIVITY RELEASED: L: LIQUID S: SOLID G: GAS CONTENT OF RELEASE: N: NOBLE GAS H: HALOGEN P: PARTICULATE

PERSONNEL EXPOSURES: NUMBER: DESCRIPTION:

PERSONNEL INJURIES: NUMBER: DESCRIPTION:

OFFSITE CONSEQUENCES: NUMBER: DESCRIPTION:

DAMAGE TO FACILITY:

PUBLICITY:

ADDITIONAL FACTORS:

PUMP WAS MANUFACTURED BY ROVER-HYDRAULIC, COMMERCE, GA.