LICENSEE EVENT REPORT (LER)														U.S. N	NUCLEAR REGULATORY COMMISSION APPROVED OMB NO. 3150-0104 EXPIRES 8/31/85									
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On December 18, 1984, during surveillance testing of the #3 Emergency Diesel Generator, a fire occurred in the vicinity of the turbocharger. The engine was shutdown and the fire extinguished when the fixed low pressure coastactivated. The engine was repaired and returned to service on 12/20/84.

X

The fire was caused by a leaking fitting on a fuel injector line which allowed fuel oil to leak into the lube oil. As a result, the turbocharger thrust bearings failed and a small crankcase explosion and fire in the turbocharger ensued.

This report is submitted at the request of the Resident NRC Inspector as a significant operating event.

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YES III yes complete EXPECTED SUBMISSION DATE!

ABSTRACT (Limit to 1400 spaces i.e. approximately fifteen single-space typewritten lines) (16)

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U.S. NUCLEAR REGULATORY COMMISSION LICENSEE EVENT REPORT (LER) TEXT CONTINUATION APPROVED OMB NO. 3150-0104 EXPIRES: 8/31/85 FACILITY NAME (1) DOCKET NUMBER (2) LER NUMBER (6) PAGE (3) SEQUENTIAL VEAR 0 2 OF 0 2 SURRY POWER STATION, UNIT 1 0 |5 |0 |0 |0 | 2 | 8 |0 8 4 0 2 7 0 | 0

1. Description of the Event

TEXT (If more space is required, use additional NRC Form 366A's) (17)

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On December 18, 1984, Unit 1 was preparing for a startup following a refueling outage and Unit 2 was at 89% power when at 0705 hours, the #3 Emergency Diesel Generator (#3 EDG) was started for surveillance testing. At 0736, MWe output indication went to 0%, the generator output breaker was manually opened and the engine was shutdown. At 0743 hours, the operator who was sent to the #3 EDG Room to investigate reported a fire in the vicinity of the turbocharger. The fire brigade responded and attempted to extinguish the fire with portable extinguishers, but several reflashes occurred. The room was evacuated and the fixed low pressure co system was activated. At 0755 hours, the Shift Supervisor initiated the Station Emergency Plan and declared an Unusual Event (fire lasting more than 10 minutes), and the appropriate offsite agencies were notified. The fire was declared out at 0805 hours and the Unusual Event was terminated at 0840 hours.

2. Probable Consequences

The Emergency Power System is an on-site, independent, automatically starting power source. It supplies power to the Station Emergency Buses if a normal power source is not available. The Emergency Power System consists of three Diesel Generators for two units. #1 EDG is used exclusively for unit 1, #2 EDG for unit 2, and the #3 EDG functions as a backup for either unit. Since the EDG's were not needed at this time and the fire in #3 EDG room did not affect the availability of the other EDG's, the health and safety of the public were unaffected.

3. Cause

A leaking fitting on a fuel injector line allowed fuel oil to leak into the lube oil. The lube oil became diluted to approximately 40% fuel oil. The fuel oil changed the viscosity of the lube oil causing failure of the turbocharger thrust bearings. A small crankcase explosion and a fire in the turbocharger ensued.

Immediate Corrective Action

The #3 EDG was shutdown and the fire brigade responded to the scene. Attempts to put out the fire with portable extinguishers were unsuccessful. The #3 EDG room was evacuated and the fixed low pressure co system was activated.

Subsequent Corrective Action

An Electro-Motive Division factory representative and technical consultants were called to the station to evaluate the cause of the fire and recommend corrective actions. Following their recommendations, repairs were made and the #3 EDG was returned to service at 2101 hours on 12/20/84. Lube oil samples from #1 and #2 EDG's were analyzed and no fuel oil was detected.

Vepco

VIRGINIA ELECTRIC AND POWER COMPANY

Surry Power Station P. O. Box 315 Surry, Virginia 23883

Serial No: 84-047

January 28, 1985

Docket No: 50-280

License No: DPR-32

U. S. Nuclear Regulatory Commission Document Control Desk 016 Phillips Building Washington, D.C. 20555

Gentlemen:

Pursuant to Surry Power Station Technical Specifications, the Virginia Electric and Power Company hereby submits the following Licensee Event Report for Surry Unit 1.

REPORT NUMBER

84-027-00

This report has been reviewed by the Station Nuclear Safety and Operating Committee and will be reviewed by Safety Evaluation and Control.

Very truly yours,

R. F. Saunders Station Manager

Enclosure

cc: Mr. James P. O'Reilly Regional Administrator Suite 2900 101 Marietta Street, NW Atlanta, Georgia 30323

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