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NAC Form 365A

## LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

US NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104 EXPIRES 8/31/85

FACILITY NAME (1)		DOCKET NUMBER (Z)				T	LER NUMBER (6)							PAGE 13						
Brunswick Steam Electric Plant Unit 1					1	YEAR		PERUEN			INEVELUM INCHARER			T						
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On July 23, 1984, at 1455, during the performance of routine preventive maintenance on Control Building area radiation monitors, area radiation monitor indicator/trip unit 1-D22-RM-K600 1-3, GE Part No. 129B2802G11, experienced an instrument downscale failure when it was reconnected into the monitor instrumentation loop. As per design, the Control Building Emergency Air Filtration (CBEAF) System received an automatic start signal. At the time, both CBEAF System Trains A and B were in service as they had been manually started prior to performance of the subject preventive maintenance. This was done to avoid possible automatic starting of the trains due to performance of the subject maintenance. At the time, Unit 1 was operating at 99.4% power and Unit 2 was in a refuel/maintenance outage.

An investigation of this event revealed the screw associated with the electrical plug of the K600 1-3 signal input/power supply lead had, at some indeterminate time, become loose. The lock washer associated with the screw had become displaced and had lodged within the K600 1-3 instrument circuitry. The location of the lock washer was such that it was not detected prior to reconnection of K600 1-3 into the monitor instrument loop. When K600 1-3 was reconnected, input power to the instrument electrically shorted to ground. As a result, the monitor dc high voltage power supply, 1-D22-RM-K603A, GE Part No. 112C2235G004, electrically shorted to ground. The grounding and subsequent failure of K603A caused K600 1-3 to experience the encountered instrument downscale failure.

Following this event, K600 1-3 was replaced, K603A was repaired, and the monitor was returned to service. Within approximately 47 hours of this event, both CBEAF System trains were returned to their normal standby configuration.

As a result of this event, a memorandum dated August 22, 1984, was issued to the plant I&C Maintenance Foremen directing them to instruct plant I&C personnel to ensure the tightness integrity of plant hardware associated with instrumentation modules prior to returning the involved plant equipment to service after corrective or preventive maintenance.

On July 28, 1984, at 0352, CBEAF System Train A automatically started due to an i strument downscale failure of K600 1-3. At the time, Unit 1 was operating at 97% power and Unit 2 was in a refuel/maintenance outage. In addition, the redundant CBEAF System Train B was in standby.

The investigation of this event revealed K600 1-3 failed due to a deficient output from the high voltage transformer, T2, of K603A. The deficient output from T2 is attributed to a debilitation of the component encountered during the July 23, 1984, failure of K603A. Following the July 23, 1984, event, involved troubleshooting and repairs to K603A had not detected a problem with the output of T2.

Appropriate repairs to K603A, including replacement of T2, were performed. K600 1-3 and the monitor were returned to service. CBEAF System Train A was secured and returned to normal standby configuration within 70 hours of this event.

Actuation of a CBEAF System train places the involved train in its design mode of operation.

LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION APPROVED DMB NO. 3150 - C104 EXPIRES 8/31/85

ACILITY NAVE III	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (2)			
Brunswick Steam Electric Plant Unit 1		YEAR SEQUENTIAL REVIEWS				
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On July 23, 1984, at 1455, during the performance of routine preventive maintenance on Control Building area radiation monitors, area radiation monitor indicator/trip unit 1-D22-RM-K600 1-3, GE Part No. 129B2802G11, experienced an instrument downscale failure when it was reconnected into the monitor instrumentation loop. As per design, the Control Building Emergency Air Filtration (CBEAF) System received an automatic start signal. At the time, both CBEAF System Trains A and B were in service as they had been manually started prior to performance of the subject preventive maintenance. This was done to avoid possible automatic starting of the trains due to performance of the subject maintenance. At the time, Unit 1 was operating at 99.4% power and Unit 2 was in a refuel/maintenance outage.

An investigation of this event revealed the screw associated with the electrical plug of the K600 1-3 signal input/power supply lead had, at some indeterminate time, become loose. The lock washer associated with the screw had become displaced and had lodged within the K600 1-3 instrument circuitry. The location of the lock washer was such that it was not detected prior to reconnection of K600 1-3 into the monitor instrument loop. When K600 1-3 was reconnected, input power to the instrument electrically shorted to ground. As a result, the monitor dc high voltage power supply, 1-D22-RM-K603A, GE Part No. 112C2235G004, electrically shorted to ground. The grounding and subsequent failure of K603A caused K600 1-3 to experience the encountered instrument downscale failure.

Following this event, K600 1-3 was replaced, K603A was repaired, and the monitor was returned to service. Within approximately 47 hours of this event, both CBEAF System trains were returned to their normal standby configuration.

As a result of this event, a memorandum dated August 22, 1984, was issued to the plant I&C Maintenance Foremen directing them to instruct plant I&C personnel to ensure the tightness integrity of plant hardware associated with instrumentation modules prior to returning the involved plant equipment to service after corrective or preventive maintenance.

On July 28, 1984, at 0852, CBEAF System Train A automatically started due to an instrument downscale failure of K600 1-3. At the time, Unit 1 was operating at 97% power and Unit 2 was in a refuel/maintenance outage. In addition, the redundant CBEAF System Train B was in standby.

The investigation of this event revealed K600 1-3 failed due to a deficient output from the high voltage transformer, T2, of K603A. The deficient output from T2 is attributed to a debilitation of the component incountered during the July 23, 1984, failure of K603A. Following the July 23, 1984, event, involved troubleshooting and repairs to K603A had not detected a problem with the output of T2.

Appropriate repairs to K603A, including replacement of T2, were performed. K600 1-3 and the monitor were returned to service. CBEAF System Train A was secured and returned to normal standby configuration within 70 hours of this event.

Actuation of a CBEAF System train places the involved train in its design mode of operation.

Brunswick Steam Electric Plant
P. O. Box 10429
Southport, NC 28461-0429
August 27, 1984

FILE: B09-13510C SERIAL: BSEP/84-1840

NRC Document Control Desk U.S. Nuclear Regulatory Commission Washington, DC 20555

BRUNSWICK STEAM ELECTRIC PLANT UNIT 1
DOCKET NO. 50-325
LICENSE NO. DPR-71
LICENSEE EVENT REPORT 1-84-12

Gentlemen:

In accordance with Title 10 to the Code of Federal Regulations, the enclosed Licensee Event Report is submitted. This report fulfills the requirement for a written report within thirty (30) days of a reportable occurrence and is in accordance with the format set forth in NUREG-1022, September 1983.

Very truly yours,

0:-

C. R. Dietz, General Manager Brunswick Steam Electric Plant

MJP/kal/LETCG2

Enclosure

cc: Mr. J. P. O'Reilly

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