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

At 2050 hours on November 8, 1987, with Units 1 and 2 in Operational Condition 1 (Run) at 88% and 83% power respectively, the "B" Control Room HVAC System (VC) "B" ammonia detector (0XY-VC165B) tripped. Per design, an Engineered Safety Feature (ESF) damper actuation occurred which isolated the "B" VC train from the outside air and recirculated the air flow through the "odor eater" (charcoal adsorber).

The Instrument Maintenance Department investigated the event and found that the front optics indicator lamp had failed. The lamp was replaced and the detector was returned to service at 1400 hours on November 9, 1987. This was the first occurrence of a failed optics lamp causing an ammonia detector trip.

The safety consequences of this event were minimal since the "B" VC system responded to the ammonia detector trip per design.

This event is reportable pursuant to the requirements of 10CFR50.73(a)(2)(iv) due to the actuation of an ESF system.

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TEXT

### PLANT AND SYSTEM IDENTIFICATION

General Electric - Boiling Water Reactor

Energy Industry Identification System (EIIS) codes are identified in the text as [XX].

# A. CONDITION PRIOR TO EVENT

 Unit(s):
 1/2
 Event Date:
 11/8/87
 Event Time:
 2050 Hours

 Reactor Mode(s):
 1/1
 Mode(s) Name:
 Run/Run
 Power Level(s):
 88%/83%

#### B. DESCRIPTION OF EVENT

At 2050 hours on November 8, 1987, with Units 1 and 2 in Operational Condition 1 (Run) at 88% and 83% power respectively, the "B" Control Room HVAC System (VC) [VI] "B" ammonia detector (OXY-VC165B) tripped. Per design, an Engineered Safety Feature (ESF) damper actuation occurred which resulted in the following:

- the "B" VC "odor eater" (charcoal adsorber) was placed into operation (the adsorber's inlet and outlet dampers, OVC11YB and OVC12YB, opened and the adsorber's bypass damper, OVC13YB, closed), and
- the minimum outside air dampers, OVC52YB and OVC05YB, closed

At the time of the event, the "B" VC system was operating in the Recirculation Mode with the minimum outside air dampers open and the "odor eater" bypassed.

The Instrument Maintenance (IM) Department investigated the event (under Work Request 1.73255) and found that the ammonia detector's front optics indicator lamp failed. The detector monitors the outside air by drawing an air sample through a chemcassette tape. The tape is chemically treated such that a colored stain is produced if ammonia exists in the air sample. To determine the ammonia concentration, the stain is monitored photoelectrically by an internal optics block lamp and two (2) photoelectric cells. The internal optics block lamp is arranged in series with the front optics indicator lamp (which is used for indication only). A failure of either lamp will de-energize both lamps and produce a detector trip.

The front optics indicator lamp was replaced and proper detector operation was verified in accordance with LIS-VC-003 (Control Room HVAC System Armonia Detector Calibration). Armonia detector OXY-VC165B was returned to service at 1400 hours on November 9, 1987.

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TEXT

No other systems or components were inoperable at the beginning of the event which contributed to this event.

This event is reportable pursuant to the requirements of 10CFR50.73(a)(2)(iv) due to the actuation of an ESF system.

### C. APPARENT CAUSE OF EVENT

The cause of the event was a failed front optics indicator lamp. The optic lamps (front and internal) are normally changed every year as part of the ammonia detector preventative maintenance program and were recently changed in April 1987. Since this is the first occurrence of a failed optics lamp, it is considered an isolated event.

## D. SAFETY ANALYSIS OF EVENT

The safety consequences of this event were minimal since the "B" VC system responded to the ammonia detector trip per design. During this event when the ammonia detector was inoperable, the "B" VC "odor eater" was in operation. This event had no effect on the non-operating "A" VC train. The front optics indicator lamp in the ammonia detector was replaced and the detector was restored to service within seven days thus meeting all operational requirements of Technical Specification 3.3.7.8.

#### E. CORRECTIVE ACTIONS

The front optics indicator lamp was replaced (under Work Request L73255) and the detector was returned to service at 1400 hours on November 9, 1987.

A preventative maintenance program is presently in place to improve the performance of the ammonia detectors. This program consists of inspecting and cleaning (all moving parts) of the ammonia detectors on an annual basis. In addition, the optic lamps (front and internal) are replaced.

Consideration is being given to adding an additional ammonia detector to each VC train and instituting a single failure proof trip logic. A Technical Specification amendment request has been submitted which would allow removal of these detectors if approved.

## F. PREVIOUS EVENTS

None

# G. COMPONENT FAILURE DATA

Manufacturer Nomenclature Model Number MFG Part Number
MDA Scientific Company Optics Light Bulb 7060-FAN LP4

December 3, 1987

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

Dear Sir:

Licensee Event Report #87-035-00, Docket #050-373 is being submitted to your office in accordance with 10CFR50.73(a)(2)(iv).

Joug. J. Diederich Station Manager LaSalle County Station

GJD/PSW/kg

Enclosure

xc: Nuclear Licensing Administrator NRC Resident Inspector NRC Region III Administrator INPO - Records Center

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