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The gas monitor channels on radiation monitor OPR33J (Main Control Room Outside Air Intake "B") went into high radiation and interlock alarm, apparently due to externally generated electrical noise. This caused the B Train of Main Control Room HVAC to shift to its ESF configuration. The alarm reset automatically shortly after it occurred. Investigation of possible causes of the noise spikes

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	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION								
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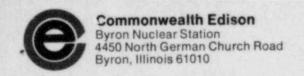
On January 9, 1985 at 1950, the gas monitor channels of radiation monitor OPR33J (Main Control Room Outside Air Intake "B") went into high radiation and interlock alarm, apparently due to externally generated electrical noise. Train B of the Main Control LRoom HVAC (VC) System automatically switched into the makeup mode when OPR33J went into its interlock state.

The source of the noise is unknown, but the short duration of the alarm is indicative of a single noise spike. The Radiation Monitoring System RM-11 printer did not record the event because there was a loss of communications at the time with the OPR33J skid, but the alarm itself was not blocked as it is on a dedicated communications link.

Plant and public safety were not affected since switching the VC system to its makeup mode is an ESF function which establishes a safer plant condition.

There have been similar occurrences of electrical noise spiking (LER 84-028-00, LER 84-033-00).

The alarms reset automatically shortly after they occurred. Investigation into possible causes of the noise spikes is underway. Possible causes include line voltage fluctuations due to starting/stopping large plant loads, electrical disturbances induced by welding in Unit 2, and inadequate skid and microprocessor ground. One other item which may be related is the monitor interlock setpoints. Setpoint adequacy is presently under review.



January 28, 1985

LTR:

85-0150

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

Dear Sir:

The enclosed Licensee Event Report from Byron Generating Station is being transmitted to you in accordance with the requirements of 10 CFR 50.75 (a) (2) (iv) which requires a 30 day written report.

This report is number 85-002-00 Docket No. 50-454.

Very truly yours,

R. E. Querio

Station Superintendent

Byron Nuclear Power Station

Queris

Enclosure: Licensee Event Report No. 85-002-00

cc:

J. G. Keppler, NRC Region III Administrator

J. Hinds, NRC Resident Inspector

INPO Record Center CECO Distribution List

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