18-43)	LICENSEE EVENT REPORT (LER)								MA. HUCLEAR REQUESTORY COMMISSION						
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John C. Nagle, Engineer - Special Projects							2, 1, 5	8,4	1-	5, 1	8,4				
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Abstract: 85-031

On March 14, 1985, at 4:05 a.m., with the unit in cold shutdown at zero percent power, an Engineered Safety Feature (ESF) actuation occurred. Failure of the 'D' control room chlorine detector caused the normal ventilation to isolate and the 'B' train of the Control Room Emergency Fresh Air System (an ESF) to start. Investigation determined that the sample tape in the detector instrument had broken, causing the analyzer to indicate full scale. The tape was repaired, the analyzer was tested and returned to service, and the isolation was reset.

MAC Java 304

NAC FOR 344A	LICENSEE EVENT REPO		ALCULATORY COMMISSION 10 OM8 NO 3150-0104 8/31/85				
TACILITY NAME (1)	C	DOCKE, MAMBER 151	LEA	NUMBER (6)	PAGE 131		
Unit 1	Generating Station		*648	1 DULATIAL	ALVISION NUMBÍ A		T
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### Description of the Event:

At 4:05 a.m. on March 14, 1985, the operators received an alarm "Control Room Chlorine Isolation Initiated" and the 'B' train of Control Room Emergency Fresh Air System (an engineering safety feature) started. In order to verify the high chlorine signal, the remaining three chlorine indicators in the control room were observed, but indicated normal. Investigation determined that the sample tape of the 'D' chlorine analyzer (AE-78-016D), an MDA Scientific, Inc. Model 740 FAN, had broken.

### Consequences of the Event:

Since the Main Control Room Isolation System and Emergency Filtration System responded per design, there are no adverse consequences associated with this event.

## Cause of the Event:

The suspected cause is excessive vibration of the sample pump causing the sensing tape to tear. This is currently under investigation.

# Corrective Actions:

The sample tape was repaired, the analyzer tested and returned to service, and the isolation was reset.

In an attempt to mitigate the sensing tape breakage, additional supports are being installed beneath the sample pump to dampen excess vibration. Installation of several modified components is being considered to reduce the probability of the tape breakages. The acceptability of installation of these components is presently under review.

A-2

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	LICENSEE EVENT REPORT (LER) TEXT CONTINUATION						
FACILITY NAME (1)	DOCKET NUMBER (2)	1	LER NUMBER (6	PAGE (3)			
Limerick Generating Stat Unit 1		YEAR	SEQUENTIAL	NUMBER	1		
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In the event that the proposed modifications are not successful in eliminating the tape breakages, an investigation is underway regarding procurement of an alternate chlorine analyzer model.

### Previous Similar Occurrences:

Similar events have been reported as LERS 84-003, 84-010, 84-028, 84-033, 84-046, 85-029, and 85-030.