(7-77)

LICENSEE EVENT REPORT

CONTROL BLOCK: | | | | | | | (1) (PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

01	I L L S C 1 (2)	0 0 - 0 0 0 0 0 - 0 0 (3)	4 1 0 0 0 (4)	(5)
	LICENSEE CODE	LICENSE NUMBER	LICENSE TYPE	CAT

CON'T

01	REPORT SOURCE: L (6)	0 5 0 0 0 3 7 3 (7)	0 8 3 0 8 3 (8)	0 9 2 8 8 3 (9)
		DOCKET NUMBER	EVENT DATE	REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 On August 30, 1983 the blowdown flow recorder was discovered to be reading downscale
03 low with the blowdown valve position at approx. 50% open. The blowdown flow trans-
04 mitter was declared inoperable. At the time of the occurrence the plant was in
05 cold shutdown with no discharge in progress. The safety of the plant and public
06 were not affected.
07
08

09	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
	M C (11)	E (12)	E (13)	I N S T R U (14)	E (15)	Z (16)

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	8 3	—	1 0 6	/	0 3	L	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
F (18)	F (19)	Z (20)	Z (21)	0 0 0 0	Y (23)	N (24)	A (25)	D 1 6 3 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 The cause of the occurrence was entrapped air in the transmitter sensing lines.
11 The air was removed and sensing lines vented. Re-alignment of the probe and
12 modification M-1-0-82-125 are in progress to improve and rectify blowdown flow
13 measurement reliability.
14

15	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
	B (28)	0 0 0 (29)	NA	A (31)	Observation

16	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
	Z (33)	Z (34)	NA	NA

PERSONNEL EXPOSURES

17	NUMBER	TYPE	DESCRIPTION (39)
	0 0 0 (37)	Z (38)	NA

PERSONNEL INJURIES

18	NUMBER	DESCRIPTION (41)
	0 0 0 (40)	NA

LOSS OF OR DAMAGE TO FACILITY (43)

19	TYPE	DESCRIPTION
	Z (42)	NA

PUBLICITY

20	ISSUED	DESCRIPTION (45)
	N (44)	NA

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PDR ADOCK 05000373
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NRC USE ONLY

NAME OF PREPARER V. Masterson, PHONE: 815-357-6761

GPO 917-926

I. LER NUMBER: 83-106/03L-0

II. LASALLE COUNTY STATION: Unit 1

III. DOCKET NUMBER: 050-373

IV. EVENT DESCRIPTION:

On August 30, 1983 the Blowdown Flow Recorder was discovered to be reading downscale low with the blowdown valve position at approximately 50% open. The Blowdown Flow Transmitter was declared inoperable.

V. PROBABLE CONSEQUENCES OF THE OCCURRENCE:

At the time of the occurrence the plant was in cold shutdown. There was no radwaste discharge in progress. The occurrence had no effect on the safety of the plant or the general public.

VI. CAUSE:

The cause for the blowdown flow recorder to read low downscale was traced to the blowdown probe becoming air bound. This has been a recurring problem with the probe. Because of this LER's 82-124, 82-149, 82-179, 83-017, 83-109 were generated. The problems with the probe are due to installation problems as have been documented in previous LER's.

The probe is designed to be supported at the top and at the bottom of the pipe flowstream to be measured. Because of alignment problems, the probe is not supported at the bottom. This causes the probe to vibrate causing the transmitter readings to fluctuate. These vibrations have a tendency to create a turbulent environment for the probe further promoting the formation of air bubbles into the differential pressure sensing transmitter.

VII. CORRECTIVE ACTION:

A Work Request (L27283) was written to repair inoperable blowdown flow indication. The annubar sensing lines were vented removing the air from the transmitter. The blowdown flow indication returned to normal. Work Request (L27283) was completed satisfactorily.

Re-alignment of the probe will help imorove but may not fully rectify the problem with the probe. The installation of air trap bleed valves could also improve the performance, however, it is doubtful whether these improvements will markedly increase the reliability.

Currently, Modification M-1-0-82-125 is in progress and work is being geared towards the installation of a weir system to solve the availability problem of blowdown flow measurement.

When the weir system is installed, plans include making this the primary flow measurement device while making the current annubar probe the

VII. CORRECTIVE ACTION (Cont'd):

secondary or back-up flow measurement device.

After the completion of the modification, further occurrences of inoperable blowdown flow measurement should be greatly reduced.

The annubar probe is made by Diederich Standards Corp.

Prepared by: Vincent Masterson

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LaSalle County Nuclear Station
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Telephone 815/357-6761

DMB

September 28, 1983

James G. Keppler
Regional Administrator
Region III
U.S. Nuclear Regulatory Commission
799 Roosevelt Road
Glen Ellyn, IL 60137

Dear Sir:

Reportable Occurrence Report #83-106/03L-0 Docket #050-373 is being submitted to your office in accordance with LaSalle County Nuclear Power Station Technical Specification 6.6.B.2.(b), conditions leading to operation in a degraded mode permitted by a limiting condition for operation or plant shutdown required by a limiting condition for operation.

G. J. Diederich
Superintendent
LaSalle County Station

GJD/GW/rg

Enclosure

cc: Director of Inspection & Enforcement
Director of Management Information & Program Control
U.S. NRC Document Management Branch
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OCT 3 1983

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