Update Report - Previous Report Date 4/25/86

NRC FORM 366 (12-81) 10 CFR 50

U.S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

APPROVED BY OMB 3150-0011

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

0 1	LICENSEE CODE: PASES1 (2)	LICENSE NUMBER: 00-00000-00 (3)	LICENSE TYPE: 41111 (4)	CAT: (5)					

CON'T

0 1	REPORT SOURCE: L (6)	DOCKET NUMBER: 05000387 (7)	EVENT DATE: 032683 (8)	REPORT DATE: (9)

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 In two separate occurrences four days apart, containment H_2/O_2 analyzer "B" had to
0 3 be declared inoperable due to erratic readings. There were no adverse consequences
0 4 in that the "A" anaylzer was in service and operating properly. Since the problems
0 5 associated with continuous operation of the H_2/o_2 analyzers are intrinsic and this
0 6 topic is presently tracked as an Inspection Report Unresolved Item, (Reference:
0 7 Inspection Report 50-387/UNR 85-01-02) no further updates to this LER are planned.
0 8

	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
0 9	SE (11)	B (12)	B (13)	INSTRU (14)	X (15)	Z (16)

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	83	—	053	/	03	X	—	1

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER (26)
E (18)	X (19)	Z (20)	Z (21)	0000	Y (23)	N (24)	A (25)	D096

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Air in-leakage at a flow indicator yielded moisture in the analyzer's sample lines.
1 1 The sample pump, tube cube and four pressure control valves were replaced and the
1 2 analyzer was returned to service. Future problems with the analyzers will be
1 3 reported when they meet the requirements of 10CFR 50.73.
1 4

	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
1 5	B (28)	000 (29)	NA	A (31)	Operator observation

	ACTIVITY RELEASED	CONTENT OF RELEASE	AMOUNT OF ACTIVITY (35)	LOCATION OF RELEASE (36)
1 6	Z (33)	Z (34)	NA	NA

PERSONNEL EXPOSURES

	NUMBER	TYPE	DESCRIPTION (39)
1 7	000 (37)	Z (38)	NA

PERSONNEL INJURIES

	NUMBER	DESCRIPTION (41)
1 8	000 (40)	NA

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PDR ADOCK 05000387
S PDR

LOSS OF OR DAMAGE TO FACILITY (43)

	TYPE	DESCRIPTION
1 9	Z (42)	NA

PUBLICITY

	ISSUED	DESCRIPTION (45)	NRC USE ONLY
2 0	N (44)	NA	

NAME OF PREPARER L.A. Kuczynski PHONE (717) 542-3759

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ATTACHMENT

LER # 83-053/03X-1

Pennsylvania Power & Light Company
Susquehanna Steam Electric Station
Docket Number: 50-387

The following problems have been identified as casual factors of this event:

- On at least one occasion, the analyzer was operated with the heat tracing for the sample line de-energized. This may have caused condensation which led to problems maintaining the proper flow balance. An air leak was discovered on the flow indicator which could sub-cool the sample air, yielding condensation and attendant flow problems.

- The pressure control valve (PCV) downstream of the moisture separator was dirty. The deposits were probably from dirty air samples caused by maintenance activities in containment. This valve maintains sample flow rate.
- Both PCV's downstream of the analyzer cells were fouled by a white powder. The origin of the powder is unknown. The purpose of these PCV's is to maintain three psid across the flow orifice downstream of each analyzer cell.

- The erratic flow rate may have been caused by the deterioration of the sample pump. The pump was relaced, as was the tube cube assembly.

Since this occurrence there have been many additional $H_2/0_2$ analyzer problem, characterized mainly by failure of the analyzer sample pumps, pressure control valves and air in-leakage resulting in water in the sample lines. These conditions have been corrected as they occurred. Organized investigation into the means to assure reliable system operations is continuing. Until a permanent fix is developed , system malfunctions will continue to be corrected as they arise. Since the problems associated with the continuous operation of the $H_2/0_2$ analyzers are intrinsic and this topic is presently tracked as an Inspection Report Unresolved Item (Reference: Inspection Report 50-387/UNR 85-01-02) no further updates to this LER are planned. Future problems with the analyzers will be repo ted when they meet the requirements of 10CFR50.73.

PP&L Pennsylvania Power & Light Company

Susquehanna Steam Electric Station
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August 4, 1986

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

SYSQUEHANNA STEAM ELECTRIC STATION
LICENSEE EVENT REPORT 83-053/03X-1
FILE R41-2
PLAS- 189

Docket No. 50-387
License No. NPF-14

Attached please find a copy of Licensee Event Report No. 83-053/03X-1. This event was determined to be reportable per Technical Specification 6.9.1.9.b, in that the 'B' Containment Hydrogen/Oxygen Analyzer was declared inoperable.

T.M. Crimmins, Jr.
Superintendent of Plant-Susquehanna

LAK/cdn

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