NRC FORM 366 (7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

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

Line	Field	Value
01	LICENSEE CODE (2)	I A D A C 1
	LICENSE NUMBER (3)	0 0 - 0 0 0 0 0 - 0 0
	LICENSE TYPE (4)	4 1 1 1 1
	CAT (5)	
CON'T 01	REPORT SOURCE (6)	L
	DOCKET NUMBER (7)	0 5 0 0 0 3 3 1
	EVENT DATE (8)	0 5 2 7 8 3
	REPORT DATE (9)	0 6 1 0 8 3

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

02 During normal operation channel B of the containment H_2O_2 analyzer was
03 rendered inop on 5/21. Difficulties in calibrating channel A on 5/27 ren
04 dered A inop. Power reduction commenced per T.S. 3.6. New PASS system op
05 erable and capable of determining H_2O_2 concentrations. No effect on H&S.
06 A returned to operable at 1430 hours ending LCO. Note that standard T.S.
07 do not require an LCO w/PASS operable. Previous report RO 82-10.
08

Line	Field	Value
09	SYSTEM CODE (11)	S E
	CAUSE CODE (12)	E
	CAUSE SUBCODE (13)	B
	COMPONENT CODE (14)	X X X X X X
	COMP. SUBCODE (15)	Z
	VALVE SUBCODE (16)	Z
(17) LER/RO REPORT NUMBER	EVENT YEAR	8 3
		—
	SEQUENTIAL REPORT NO.	0 2 1
		/
	OCCURRENCE CODE	0 1
	REPORT TYPE	T
		—
	REVISION NO.	0
	ACTION TAKEN (18)	B
	FUTURE ACTION (19)	Z
	EFFECT ON PLANT (20)	B
	SHUTDOWN METHOD (21)	Z
	HOURS (22)	0 0 0 2
	ATTACHMENT SUBMITTED (23)	Y
	NPRD-4 FORM SUB. (24)	N
	PRIME COMP. SUPPLIER (25)	L
	COMPONENT MANUFACTURER (26)	C 5 3 0

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

10 System contamination fouled pressure regulators as a result of system op
11 eration during recent refueling outage. A was returned to service by cor
12 rective maintenance. B returned following receipt of new regulators - A
13 regulators also replaced. Tech Spec change to credit PASS monitoring bei
14 ng prepared.

Line	Field	Value
15	FACILITY STATUS (28)	E
	% POWER (29)	0 9 4
	OTHER STATUS (30)	NA
	METHOD OF DISCOVERY (31)	B
	DISCOVERY DESCRIPTION (32)	Cal problems during surveillance
16	ACTIVITY RELEASED (33)	Z
	CONTENT OF RELEASE (34)	Z
	AMOUNT OF ACTIVITY (35)	NA
	LOCATION OF RELEASE (36)	NA
17	PERSONNEL EXPOSURES NUMBER (37)	0 0 0
	TYPE (38)	Z
	DESCRIPTION (39)	NA
18	PERSONNEL INJURIES NUMBER (40)	0 0 0
	DESCRIPTION (41)	NA
19	LOSS OF OR DAMAGE TO FACILITY (43) TYPE (42)	Z
	DESCRIPTION	NA
20	PUBLICITY ISSUED (44)	N
	DESCRIPTION (45)	NA

8306170337 830610
PDR ADOCK 05000331
S PDR

NRC USE ONLY

NAME OF PREPARER William J. Miller PHONE: 319-851-7238

Iowa Electric Light and Power Company
June 10, 1983
DAEC-83- 427

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

Subject: Licensee Event Report No. 83-021
(14 day)

File: A-118a, TE-2

Dear Mr. Keppler:

In accordance with Appendix A to Operating License DPR-49, Technical Specifications, Section 6.11.2.a(2), and Bases for Duane Arnold Energy Center and Regulatory Guide 10.1, please find attached a copy of the subject Licensee Event Report.

As noted in the attached LER, reactor shutdown was initiated in accordance with DAEC Technical Specification 3.7.a.6(c) at 1346 hours on May 27, 1983, when with one division of H_2O_2 analyzer serving containment inoperable, the second division experienced operability problems. The controlled shutdown was terminated at 1630 hours when one division was returned to operable status. Although this report is being classified as a 14 day LER (since a parameter was less conservative than the least conservative aspect of the LCO) the DAEC technical specifications do not credit the recently installed post accident sampling system (PASS). The PASS system was operable throughout the periods of inoperability of the H_2O_2 analyzers and provides the capability to obtain and analyze in less than one hour containment and torus atmosphere H_2 and O_2 concentrations. We anticipate revising the DAEC technical specifications to reflect the redundancy of the PASS system to the H_2O_2 analyzers and negate the need for shutdown or an LER should the above circumstances repeat themselves.

Very truly yours,

BR York for
Daniel L. Mineck
Plant Superintendent - Nuclear
Duane Arnold Energy Center

DLM/WJM/pf
Docket 50-331
attachment

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

NRC Resident Inspector - DAEC

JUN 13 1983

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DUANE ARNOLD ENERGY CENTER

Iowa Electric Light and Power Company

Licensee Event Report - Supplemental Data

Docket No. 050-0331

Licensee Event Report Date: 6-10-83

Reportable Occurrence No: 83-021

Description of Event

On May 21, 1983, channel B of the DAEC H_2O_2 analyzers serving containment and torus atmosphere was declared inoperable. In accordance with DAEC technical specification 4.7.A.6.c., operability testing of the Channel A H_2 and O_2 analyzers was increased in frequency. While performing calibration of the A channel on May 27, 1983, difficulties were experienced in calibration of the A channel. Investigation revealed that pressure regulators within the A channel were fouling due to contamination by particulate matter. In accordance with DAEC specification 3.7.A.6.c, a controlled shutdown was initiated at 1346 hours on May 27, 1983. This controlled shutdown was terminated at 1630 hours when division A was returned to operable status following cleaning of the regulators and successful performance of the surveillance test procedure for the A H_2O_2 analyzer.

Cause of Event

As noted above, contamination entered the H_2O_2 analyzer system during the recent refueling outage. This contamination was caused by particulate matter from outage activities such as painting, welding, and grinding. The contamination eventually collected in the regulators resulting in slow deterioration of system response.

Corrective Action

The A analyzer was returned to operable status following minor maintenance on the regulator. The B channel was returned to operable status following replacement of regulators several days later. The Post Accident Monitoring System (PASS) which is not currently credited in DAEC technical specifications provided redundant diverse indication of containment and torus atmosphere H_2 and O_2 concentrations. Upon returning the A system to service on May 27, 1983, the PASS system and H_2O_2 analyzers demonstrated excellent agreement on sample test results. DAEC Technical Specifications under review in anticipation of a proposed technical specification amendment to credit the PASS system capabilities.