(7-77)

LICENSEE EVENT REPORT

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

0 1	ILDRS3 (2)	00-00000-00 (3)	41111 (4)	(5)			
	LICENSEE CODE	LICENSE NUMBER	LICENSE TYPE	CAT			

CON'T

0 1	REPORT SOURCE L (6)	0500024 9 (7)	113081 (8)	121481 (9)
		DOCKET NUMBER	EVENT DATE	REPORT DATE

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 Unit startup was in progress when a HPCI Room Fire System Initiation alarm sounded. It

0 3 was determined upon investigation that fire protection deluge system had actuated. The

0 4 HPCI system was isolated, an Unusual Event declared, and a normal unit shutdown initia-

0 5 ted (Tech. Spec. 3.5.C). The health and safety of the general public was not endangered

0 6 since all safety systems performed as designed. This was the first event of this type

0 7 at Dresden.

0 8

	SYSTEM CODE	CAUSE CODE	CAUSE SUBCODE	COMPONENT CODE	COMP. SUBCODE	VALVE SUBCODE
0 9	SF (11)	B (12)	A (13)	VALVEX (14)	E (15)	D (16)

(17) LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	81	—	039	/	01	T	—	0

ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD	HOURS (22)	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER
X (18)	F (19)	A (20)	A (21)	0036	Y (23)	Y (24)	Z (25)	Z665 (26)

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 Cause of the fire system initiation is believed to be a high concentration of humidity/

1 1 steam vapor in the HPCI room which spuriously actuated the ionization type detector. All

1 2 affected equipment including the fire system detector has been checked for operability

1 3 and returned to service. Station Fire Marshall and SNED will review the HPCI room fire

1 4 system for possible modifications to improve reliability.

	FACILITY STATUS	% POWER	OTHER STATUS (30)	METHOD OF DISCOVERY	DISCOVERY DESCRIPTION (32)
1 5	C (28)	014 (29)	N/A	A (31)	Operator Observation

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

PERSONNEL EXPOSURES

	NUMBER	TYPE	DESCRIPTION (39)
1 7	000 (37)	Z (38)	N/A

PERSONNEL INJURIES

	NUMBER	DESCRIPTION (41)
1 8	000 (40)	N/A

LOSS OF OR DAMAGE TO FACILITY (43)

	TYPE	DESCRIPTION
1 9	Z (42)	N/A

PUBLICITY

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

NAME OF PREPARER: B. Schroeder PHONE: 815-2920, Ext. 548

8112220240 811214
PDR ADOCK 05000249
S PDR

GPO 917-926

ATTACHMENT TO LICENSEE EVENT REPORT 81-39/01T-0
COMMONWEALTH EDISON COMPANY (CWE)
DRESDEN UNIT 3 (ILDRS-3)
DOCKET #050-249

Unit startup was in progress when the control room received a HPCI Room Fire System Initiation alarm from the south ionization smoke detector. The HPCI system was declared inoperable and the HPCI steam line isolated. An Unusual Event was declared and a normal unit shutdown initiated (3.5.C.). The health and safety of the general public was not endangered since all safety systems performed as designed and the event was confined to the HPCI room. This was the first event of this type at Dresden Station.

The cause of the fire system initiation is believed to have been a buildup of humidity/steam vapor in the HPCI room. The smoke detector operates on the ionization principle and is usually activated by the presence of combustion products. Discussions with the manufacturer of the smoke detector indicated that the detector may actuate if exposed to a high concentration of water vapor.

The HPCI room has had a history of high humidity/steam because of steam leaks and the leakoff/drain system which runs to the sump in the HPCI room. Temporary ventilation was not operating prior to the occurrence which would have reduced the water vapor concentration. The smoke detector continued to intermittently alarm until the ventilation was restored.

The station Fire Marshal will be reviewing the entire fire protection system for this HPCI room. In addition, our Station Nuclear Engineering Department has been requested to review both the fire protection detectors and the ventilation system for possible modification to improve reliability.

Commonwealth Edison

DEVIATION REPORT

DVR NO. - - -
STA 12 UNIT 3 YEAR 81 NO 79

PART 1 TITLE OF DEVIATION: Spurious Actuation of HPCI Fire Protection Deluge System

OCCURRED: 11-30-81 (DATE) 0110 (TIME)

SYSTEM AFFECTED: 2300 HPCI

PLANT STATUS AT TIME OF EVENT: MODE Run, PWR(MWT) 375, LOAD(MWE) 0

TESTING: [X] YES [ ] NO

DESCRIPTION OF EVENT

The HPCI system was declared inop. following an automatic initiation of the fire protection system in the HPCI room. The fire system manual isolation valve for the HPCI room was closed to prevent further flooding of the HPCI room. The cause of the auto initiation appears to be a failure of the south ionization detector.

10 CFR50.72 NRC RED PHONE NOTIFICATION MADE: [X] YES [ ] NO

EQUIPMENT FAILURE: [X] YES [ ] NO — WORK REQUEST NO. D-17215

RESPONSIBLE SUPERVISOR: John Achterberg — DATE: 11-30-81

PART 2 OPERATING ENGINEER'S COMMENTS

The initial check of the HPCI room disclosed no apparent reason for the spurious actuation of the deluge system. Investigation to determine the cause continues. HPCI was subsequently declared inop. and a GSEP unusual event was declared. The unit was shutdown and the unusual event terminated at 0900 on 11-30-81 when Rx pressure decreased below 90 psig.

- [ ] EVENT OF PUBLIC INTEREST
- [ ] TECH. SPEC. VIOLATION
- [ ] NON REPORTABLE OCCURRENCE
- [X] 14 DAY REPORTABLE/T.S. 6.6.B.1.e
- [ ] 30 DAY REPORTABLE/T.S. _____
- [ ] ANNUAL/SPECL REPORT REQ'D

A.I.R. # 81-100

L.E.R. # 81-39/01T-0

- [X] 24-HOUR NRC NOTIFICATION REQ'D

In Person TELEPH: Tom Tongue, REGION III — 11-30-81 (DATE) 0700 (TIME)

~~TELEX~~/TELECOPY: Keppler, REGION III — 11-30-81 (DATE) 1450 (TIME)

- [ ] CECo CORPORATE NOTIFICATION MADE IF ABOVE NOTIFICATION IS PER 10CFR21
- [ ] 5-DAY WRITTEN REPORT REQ'D PER 10CFR21

Telecopy TELEPH: Frank Palmer, CECo CORPORATE OFFICER — 11-30-81 (DATE) 1535 (TIME)

PRELIMINARY REPORT COMPLETED AND REVIEWED: Michael Wright, OPERATING ENGINEER — 11-30-81 (DATE)

INVESTIGATED REPORT & RESOLUTION ACCEPTED BY STATION REVIEW: Jack Brunner 12/14/81 — Michael Wright 12-14-81

RESOLUTION APPROVED AND AUTHORIZED FOR DISTRIBUTION: for STATION SUPERINTENDENT — 12-14-81 (DATE)

86-5176 (FORM 15-32-1) 10-81