NRC FORM 366
(7-77)

U. S. NUCLEAR REGULATORY COMMISSION

LICENSEE EVENT REPORT

UPDATE REPORT
PREVIOUS REPORT DATE: 11-04-81

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

0 1	LICENSEE CODE ②	M D C C N 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 0 1	REPORT SOURCE	L ⑥	DOCKET NUMBER ⑦	0 5 0 0 0 3 1 7	EVENT DATE ⑧	1 0 0 5 8 1	REPORT DATE ⑨ 1 1 1 0 8 1

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES ⑩

0 2 During normal operation at 0125, received a Group One Control Ele-
0 3 ment (CEA) Primary Deviation Alarm. During attempts to regain pro-
0 4 per indication, CEA #57 was inserted >15" further than all other
0 5 Group 1 CEA's. In accordance with T.S. 3.1.3.1, power was decreased
0 6 to 70%. CEA #57 was withdrawn and leveled with its Group at 0230.
0 7 All other CEA's remained fully withdrawn during the event. Similar
0 8 events: none.

	SYSTEM CODE ⑪	CAUSE CODE ⑫	CAUSE SUBCODE ⑬	COMPONENT CODE ⑭	COMP. SUBCODE ⑮	VALVE SUBCODE ⑯
0 9	R B	E	E	I N S T R U	C	Z

⑰ LER/RO REPORT NUMBER	EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE	REPORT TYPE		REVISION NO.
	8 1	—	0 7 1	/	0 1	X	—	1

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

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS ㉗

1 0 Electronic failure of CEA #57 Individual Control Module such that an in-
1 1 sertion signal was generated continuously caused the event. The Control
1 2 Element Drive System Panel was maintained deenergized to prohibit
1 3 CEA movement until the module was replaced with a spare. Pending the
1 4 supplier's repair and analysis, no preventive action is planned.

	FACILITY STATUS ㉘	% POWER ㉙	OTHER STATUS ㉚	METHOD OF DISCOVERY ㉛	DISCOVERY DESCRIPTION ㉜
1 5	E	1 0 0	NA	A	Operator Observation

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

PERSONNEL EXPOSURES

	NUMBER ㊲	TYPE ㊳	DESCRIPTION ㊴
1 7	0 0 0	Z	NA

PERSONNEL INJURIES

	NUMBER ㊵	DESCRIPTION ㊶
1 8	0 0 0	NA

LOSS OF OR DAMAGE TO FACILITY ㊸

	TYPE ㊷	DESCRIPTION
1 9	Z	NA

PUBLICITY

	ISSUED ㊹	DESCRIPTION ㊺
2 0	N	NA

8111250508 811110
PDR ADOCK 05000317
S PDR

NRC USE ONLY

NAME OF PREPARER G. Pavis/P. G. Rizzo

PHONE: 301-4742/4786

GPO 917-926

LER NO. 81-71/1X
DOCKET NO. 50-317
LICENSE NO. DPR-53
EVENT DATE 10-05-81
REPORT DATE 11-10-81
ATTACHMENT ________

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (CONT'D)

Electronic failure of Control Element (CEA) #57 Individual Control Module (ICM) (Electro-Mechanics #23210) such that a continuous CEA insertion signal was generated caused the event. Initially, with the Control Element Drive System (CEDS) Control Panel power switch in the "off" position malfunction of the ICM caused no CEA movement.

The plant computer, however, responded to the false insertion signal and all Primary CEA Position Indication alarms for Group One and CEA deviations and Power Dependent Insertion Limits were actuated in proper sequence. Upon receipt of the Primary indication alarms, operators verified that no Secondary (originated by Reed Switch Position Transmitter) CEA Position Indication System alarms had occurred, and concluded that the plant computer CEA Position circuitry was at fault. Attempting to regain normal indications, the CEDS Control Panel was energized in Manual Group control mode. CEA #57 immediately began to move in, as indicated by the Secondary Position Indication System. This system initiated a CEA Motion Inhibit signal to stop the CEA motion at the appropriate CEA height. At this time, aware of the CEA channel at fault, operators selected CEA #57 for Primary System Group One indication. The computer indicated a false CEA #57 height of 70 inches. Operators then attempted, in Manual Individual control mode, to drive CEA #57 back out. CEA #57 continued its inward motion as soon as the CEA Motion Inhibit was bypassed for this purpose. CEA #57 inserted to 117 inches, by Secondary CEA Position Indication. Movement of the CEA had begun from its fully withdrawn height of 134 inches.

The CEDS Control Panel was deenergized until CEA #57 ICM was replaced with a spare. The malfunctioning module will be sent to its supplier for analysis and repair. Pending analysis by the supplier, no preventive action is planned.

A copy of this report will be routed to licensed operators for information.