

CONTROL BLOCK:

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	M	D	C	C	N	2	2	0	0	-	0	0	0	0	0	-	0	0	3	4	1	1	1	1	4			5		
7	8	LICENSEE CODE						14		LICENSE NUMBER										25		LICENSE TYPE					30		CAT		58

0	1	REPORT SOURCE	L	6	0	5	0	0	0	3	1	7	7	0	2	0	4	8	2	8	1	2	0	1	8	3	9
7	8		60	61	DOCKET NUMBER						68	69	EVENT DATE						74	75	REPORT DATE						80

0	2	At 0611, during surveillance testing, upon pressing the 7D group test
0	3	button for 21 4KV bus UV sensor module, feeder breaker 152-2101 tripped
0	4	open causing loss of power to 21 4KV bus (T.S. 3.8.2.1). No. 12 Diesel
0	5	Generator started and was available for loading. Feeder breaker 152-1201
0	6	was closed at 0612 reenergizing 21 4KV bus. The redundant AC electrical
0	7	buses remained operable throughout this event.
0	8	Similar events: none.

SYSTEM CODE		CAUSE CODE		CAUSE SUBCODE		COMP. SUBCODE		VALVE SUBCODE						
0	9	S	H	B	B	I	N	S	T	R	U	X	Z	
7	8	9	10	11	12	13	14	15	16					
LER/RO REPORT NUMBER		EVENT YEAR		SEQUENTIAL REPORT NO.		OCCURRENCE CODE		REPORT TYPE		REVISION NO.				
17	8	2	—	0	0	2	/	0	3	X	—	1		
	21	22	23	24	26	27	28	29	30	31	32			
ACTION TAKEN	FUTURE ACTION	EFFECT ON PLANT	SHUTDOWN METHOD		HOURS	ATTACHMENT SUBMITTED	NPRD-4 FORM SUB.	PRIME COMP. SUPPLIER	COMPONENT MANUFACTURER					
C	F	Z	Z	0	0	0	0	Y	N	A	M	1	4	0
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32

1 0 A failed isolation module (Vitro #1628-1082) was applying a false, hid-

1 1 den trip signal that led to the breaker trip. Vitro researched the re-

1 2 latively large number of isolation module failures and found a design de-

1 3 fect in a Monsanto MCT2 optoisolator. Replacement of all modules with

1 4 this defect will begin on both units during the next refueling outage.

1 5 E (28) 1 0 0 (29) N/A (30) A (31) Operator Observation (32)

ACTIVITY CONTENT RELEASED OF RELEASE AMOUNT OF ACTIVITY (35) LOCATION OF RELEASE (36)

1 6 Z (33) Z (34) N/A

2 5 9 10 11 44 45 80

PERSONNEL EXPOSURES

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

PERSONNEL INJURIES
NUMBER DESCRIPTION

18	000	(40)	N/A
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225

11 12
LOSS OF OR DAMAGE TO FACILITY
TYPE DESCRIPTION (43)
1 9 Z (42) N/A
7 8 9 10 11 12
8312300083 831201
PDR ADOCK 05000317
S

PUBLICITY
ISSUED DESCRIPTION (45) PDR NRC USE ONLY

2 0 N (44) N/A 68 69 70

PHONE: 301-269-4933

NRC USE ONLY

LER NO. 82-02/3X, Rev. 1
DOCKET NO. 50-317
LICENSE NO. DPR 53
EVENT DATE 02-04-83
REPORT DATE 12-01-83
ATTACHMENT

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (CONT'D)

Initial investigation revealed a failed isolation module (Vitro #1628-1082) was applying a false, unannunciated trip signal to the ZE actuation channel. When the ZD group test button for #21 4KV Bus UV sensor module was depressed, the 2 out of 4 logic was made up and the feeder breaker 152-2101 tripped.

At our request, Vitro Laboratories Division conducted an investigation of the relatively large number of Isolation Module failures that have occurred since start-up of the ESF Actuation System. The results of this study show that one component, a Monsanto MCT2 optoisolator, exhibited a considerably greater than predicted degradation of lifetime.

When Vitro contacted Monsanto about this, they were informed that another manufacturer had bought, redesigned, and is now manufacturing the MCT2 device. Vitro recommends that all the Isolation Modules be retrofitted with the new MCT2 optoisolator to reduce the number of module failures.

The replacement will be accomplished during the upcoming refueling periods and, of course, will include all spare Isolation Modules.

BALTIMORE GAS AND ELECTRIC COMPANY

P.O. BOX 1475
BALTIMORE, MARYLAND 21203

NUCLEAR POWER DEPARTMENT
CALVERT CLIFFS NUCLEAR POWER PLANT
LUSBY, MARYLAND 20657

December 1, 1983

Dr. Thomas E. Murley
Regional Administrator
U. S. Nuclear Regulatory Commission
Region 1
631 Park Avenue
King of Prussia, PA 19406

Docket No. 50-318
License No. DPR 69

Dear Dr. Murley:

Attached is LER 82-02/3X, Rev. 1, as required per Technical Specification 6.9.

Should you have any questions regarding this report, we would be pleased to discuss them with you.

Very truly yours,

L B Russell
L. B. Russell

Plant Superintendent

LBR:LFB:bsb

cc: Director, Office of Management Information
and Program Control
Messrs: A. E. Lundvall, Jr.
J. A. Tiernan

1/1
IE 22