

LICENSEE EVENT REPORT

UPDATE REPORT

PREVIOUS REPORT DATE: 2/4/83

CONTROL BLOCK:

--	--	--	--	--	--

 ①

(PLEASE PRINT OR TYPE ALL REQUIRED INFORMATION)

0	1	M	D	C	C	N	1	2	0	0	-	0	0	0	0	0	-	0	0	3	4	1	1	1	1	4			5	
7	8	LICENSEE CODE						14	15	LICENSE NUMBER										25	26	LICENSE TYPE					30	57	CAT 58	

CON'T

REPORT SOURCE: 01 L 6 0 5 0 0 0 3 1 7 7 0 1 0 6 8 3 8 0 5 2 6 8 3 9
7 8 60 61 DOCKET NUMBER 68 69 EVENT DATE 74 75 REPORT DATE 80

EVENT DESCRIPTION AND PROBABLE CONSEQUENCES (10)

0 2 | At 2335, it was discovered that containment sump valve MOV-5462 would
0 3 | not operate (T.S. 3.6.4.1). The redundant isolation valve MOV-5463 was
0 4 | shut and deenergized at 0321. At 0430, the containment sump level alarm
0 5 | was declared inoperable due to inability to drain (T.S. 3.4.6.1). The
0 6 | containment sump valves were returned to service at 1750 on 1/7/83. The
0 7 | containment particulate and gaseous radioactive monitoring systems re-
0 8 | mained operable during this event. Similar events: None

09		SYSTEM CODE MA		CAUSE CODE E		CAUSE SUBCODE B		COMPONENT CODE VALVOP				COMP. SUBCODE A		VALVE SUBCODE Z	
7	8	9	10	11	12	12	13	13	14	15	16	17	18	19	20
(17) LER/RO REPORT NUMBER		EVENT YEAR 83		SEQUENTIAL REPORT NO. 002		OCCURRENCE CODE 03		REPORT TYPE X		REVISION NO. 1					
21	22	23	24	25	26	27	28	29	30	31	32				
ACTION TAKEN C		FUTURE ACTION C		EFFECT ON PLANT Z		SHUTDOWN METHOD Z		HOURS 0000		ATTACHMENT SUBMITTED Y		NPRD-4 FORM SUB. Y		PRIME COMP. SUPPLIER A	
33	34	35	36	37	38	39	40	41	42	43	44	COMPONENT MANUFACTURER L200			
18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (27)

1 0 | The failed operator was disassembled and cause of failure identified.

1 1 | The worm gear was found to be excessively worn and was replaced. This

1 2 | operator has been in service for several years. This is a normal end of

1 3 | life failure. To prevent another worm gear failure the frequency of pre-

1 4 | ventive maintenance will be increased to every refueling outage.

FACILITY STATUS			% POWER			OTHER STATUS			METHOD OF DISCOVERY			DISCOVERY DESCRIPTION		
1	5	E	1	0	0	NA			A	Operator Observation				
ACTIVITY			CONTENT			AMOUNT OF ACTIVITY			LOCATION OF RELEASE					
1	6	Z	NA			NA			NA					
PERSONNEL EXPOSURES			TYPE			DESCRIPTION								
1	7	0	0	0	Z	NA								
PERSONNEL INJURIES			DESCRIPTION											
1	8	0	0	0		NA								
LOSS OF OR DAMAGE TO FACILITY			DESCRIPTION											
1	9	Z	NA											
PUBLICITY			DESCRIPTION											
2	0	N	NA											

8306210108 830520
PDR ADDCK 05000317
S PDR

IE22
1/1

NRC USE ONLY

NAME OF PREPARER J. S. Lagiewski/T. J. Unkle

PHONE: 301-269-4747/4505

NRC USE ONLY

IE22

BALTIMORE GAS AND ELECTRIC COMPANY

P.O. BOX 1475

BALTIMORE, MARYLAND 21203

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

May 26, 1983

Mr. James M. Allan
Acting Regional Administrator
U.S. Nuclear Regulatory Commission
Region 1
631 Park Avenue
King of Prussia, PA 19406

Docket No. 50-317
License No. DPR 53

Dear Mr. Allan:

In accordance with Technical Specification 6.9 please find the attached follow-up report for LER 83-02/3X, Rev. 1.

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

Very truly yours,

LBR
L. B. Russell
Plant Superintendent

LBR:TJU:mlk

cc: Director, Office of Management Information
and Program Control

Messrs: A. E. Lundvall, Jr.
J. A. Tiernan

IE22
1/1

LER NO. 83-02/3X, Rev. 1
DOCKET NO. 50-317
LICENSE NO. DPR 53
EVENT DATE 1/6/83
REPORT DATE 5/26/83
ATTACHMENT

CAUSE DESCRIPTION AND CORRECTIVE ACTIONS (cont'd)

On January 6, 1983 the containment sump MOV-5462 (Limitorque Model No. SMB-00) failed in service and was replaced with a spare motor operator. The failed unit was then disassembled and the cause of failure identified. The worm gear was found to be excessively worn and was replaced. This worm gear is made of an aluminum bronze material and is designed to wear prior to other operator internals. The aluminum bronze material will withstand sliding on steel better than any other material. The containment sump MOV's are cycled frequently. They are cycled on an average of 6-8 (six to eight) times per day. The failed Limitorque operator has been in service for several years. We feel this is a normal end of life failure. To prevent another worm gear failure we are increasing the frequency of preventive maintenance performed on the containment sump MOV's. Each containment sump motor operator will be inspected and rebuilt or replaced as necessary every refueling outage. The preventive maintenance performed on these operators will prevent another worm gear failure. A follow up report will be submitted when the preventive maintenance procedures are revised and incorporated into our system.