NRC Form 366 • (9-83)		LIC	ENSEE EVE	NT RE	PORT	(LER)	U.S. NU A E	CLEAR REGULA PPROVED OMB N XPIRES 8/31/85	TORY COM	IISSION M
FACILITY NAME (1)						1	DOCKET NUMBER	(2)	PAG	E (3)
Calvert Cl	iffs, Unit	One					0 5 0 0	10 3 11 7	1 OF	0 12
TITLE (4)	oporable.									
Battery In	operable					OTHER	EACH ITIES INVO	VED (8)		
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OPERATING THIS R	EPORT IS SUBMITTE	D PURBUANT T	O THE REQUIREME	NTS OF 10	CFR §: /	Check one or more	of the following) (1)	11		
MODE (9) 2	0.402(6)		20.406(c) 50.73(a)(2)(iv)			73.71(b)				
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						50,73(a)(2)(viii)(A)	below and in Text, NRC Form		
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2	0.406(a)(1)(v)	<u> </u>	50.73(a)(2)(iii)			50.73(a)(2)(x)				
		L	CENSEE CONTACT	FOR THIS	LER (12)					
NAME							AREA CODE	TELEPHONE NUM	MBER	
J. A. Crunkleton					3.0.1		2.6.0 . 4.9.3.3			
	COMPLETE	ONE LINE FOR	EACH COMPONENT	FAILURE	DESCRIBE	D IN THIS REPOR	P 0 1	-10101-	FPI	5 15
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YES (If yes, complete EXPECTE)	D SUBMISSION DATE	1	X NO	1.1			DATE (1)			
During weekly s power to the "H above the high- in the battery was caused by a following the H days prior to t A review of the levels are not has been change prior to return	surveillanc 3" train of -level mark had electr apparent ex 18 month "I chis event. e In-Servic verified b ed to ensur hing the ba	te testi both u Furt olyte l pansion n-Servi None te Surve before r te batte	ng on 21 h mits, the her invest evels about of the el ce Surveil of the cel eillance Te returning t ery paramet	patter pilot igati ve the lectro lance lance las we est Pr the ba cers a	ry, wh cell on re- e high olyte e Test ere in rocedu attery are wi	nich supp l electro evealed or n-level m during th t" which o n an over ure indica y to serv ithin tech	lies 125 lyte leve ver 50% o ark. Thi he equali was compl flow cond ated that ice. The hnical sp	VDC contr l was for f the cel s conditi ze charge eted thre ition. electrol procedur ecificat:	rol und lls ion e e e lyte re ions	
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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

U.S. NUCLEAR REGULATORY COMMISSION

APPROVED OMB NO 3150-0104 EXPIRES 8/31/85

FACILITY NAME (1)	DOCKET NUMBER (2)	LER NUMBER (6)	PAGE (3)	
		YEAR SEQUENTIAL REVISION NUMBER NUMBER		
Calvert Cliffs, Unit One	0 5 0 0 0 3 1 7	7 84 -0 018 - 010	12 OF 0 12	

At 0540, August 8, 1984, at 100% steady state power, Number 11 ("A" Train) saltwater header was removed from service for preventive maintenance. This causes ECCS "A" Train (BQ) to be inoperable due to loss of the pump room cooler. Number 11 service water subsystem (BI) and #11 component cooling heat exchangers (CC) were also inoperable as there was no cooling to their respective heat exchangers.

At 1130, August 8, 1984, during performance of the seven day surveillance requirement of Technical Specification (TS) 4.8.2.3.2 #21 Battery (EJ) ("B" Train on Unit 1 and 2) was discovered to be out of technical specification limits. (The electrolyte level was above the high-level mark.) Further investigation revealed that over 50% of the cells had electrolyte levels above the high-level mark. None of the cells were overflowing and no evidence was found to indicate overflowing had occurred. (The battery was manufactured by Exide Power Systems, Type FHC-19.)

Number 21 Battery was declared inoperable causing "B" Train ECCS to be inoperable since 125 volt control power comes from this source. Technical Specification 3.0.3 was entered which required shut down within one hour. The Nuclear Regulatory Commission (NRC) was notified of the event at 1230.

At 1235 the operable reserve battery was placed on 21 D.C. Bus terminating the event. Investigation into the cause of the high electrolyte level in 21 Battery indicates the condition had probably existed about three days. At 0330, August 5, 1984, the battery was returned to service after completion of the 18 month In-Service Surveillance Test. During this test the reserve battery is placed on the bus of the battery to be tested. The test was satisfactory and the battery was placed on equalize charge before returning to service.

The equalize charge causes an apparent expansion of the electrolyte due to gas generated during the process. IEEE 450-1980 states "If the electrolyte is at or near the high-level mark at float voltage, it may rise above that mark on charge. This condition is not objectionable. It does dictate, however, that electrolyte level readings should be made only after the battery has been at float voltage for at least 72 hours." Based on this information, the battery was not degraded during this period, and would have performed its function as a reliable source of power.

A review of the In-Service Surveillance Test Procedure indicated that electrolyte levels are not verified before returning the battery to service. The procedure has been changed to ensure battery parameters are within Technical Specification limits prior to returning the battery to service.

A Technical Specification change will be investigated to seek relief of the electrolyte high-levels associated with equalize charge.

ERC Form 366A

BALTIMORE GAS AND ELECTRIC COMPANY

P.O. BOX 1475 BALTIMORE, MARYLAND 21203

NUCLEAR POWER DEPARTMENT

CALVERT CLIFFS NUCLEAR POWER PLANT LUSBY, MARYLAND 20657

September 4, 1984

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

Docket No. 50-318 License No. DPR 69

Dear Sirs:

The attached LER 84-08 is being sent to you as required by 10 CFR 50.73.

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

Very truly yours,

Skund

L. B. Russell Plant Superintendent LBR:JAC:srm Attachment

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

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