

LICENSEE EVENT REPORT (LER)

FACILITY NAME (1) Calvert Cliffs, Unit I	DOCKET NUMBER (2) 0 5 0 0 0 3 1 1 7	PAGE (3) 1 OF 0 2
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TITLE (4)  
Waste Gas Decay Tank Release with Main Vent Particulate Monitor Out of Service.

EVENT DATE (5)			LER NUMBER (6)			REPORT DATE (7)			OTHER FACILITIES INVOLVED (8)		
MONTH	DAY	YEAR	YEAR	SEQUENTIAL NUMBER	REVISION NUMBER	MONTH	DAY	YEAR	FACILITY NAMES		DOCKET NUMBER(S)
0 9	2 3	8 4	8 4	0 1 2	0 0	1 0	2 2	8 4			0 5 0 0 0

OPERATING MODE (9)	THIS REPORT IS SUBMITTED PURSUANT TO THE REQUIREMENTS OF 10 CFR 8: (Check one or more of the following) (11)									
POWER LEVEL (10)	<input type="checkbox"/> 20.402(b)	<input type="checkbox"/> 20.405(c)	<input type="checkbox"/> 50.73(a)(2)(iv)	<input type="checkbox"/> 73.71(b)						
	<input type="checkbox"/> 20.406(a)(1)(i)	<input type="checkbox"/> 50.38(c)(1)	<input type="checkbox"/> 50.73(a)(2)(v)	<input type="checkbox"/> 73.71(c)						
	<input type="checkbox"/> 20.406(a)(1)(ii)	<input type="checkbox"/> 50.38(c)(2)	<input type="checkbox"/> 50.73(a)(2)(vii)	OTHER (Specify in Abstract below and in Text, NRC Form 386A)						
	<input type="checkbox"/> 20.406(a)(1)(iii)	<input checked="" type="checkbox"/> 50.73(a)(2)(i)	<input type="checkbox"/> 50.73(a)(2)(viii)(A)							
	<input type="checkbox"/> 20.406(a)(1)(iv)	<input type="checkbox"/> 50.73(a)(2)(ii)	<input type="checkbox"/> 50.73(a)(2)(viii)(B)							
<input type="checkbox"/> 20.406(a)(1)(v)	<input type="checkbox"/> 50.73(a)(2)(iii)	<input type="checkbox"/> 50.73(a)(2)(ix)								

LICENSEE CONTACT FOR THIS LER (12)						TELEPHONE NUMBER					
NAME Michael Junge, Operations Engineer						AREA CODE					
						3 0 1 2 6 0 - 4 9 6 9					

COMPLETE ONE LINE FOR EACH COMPONENT FAILURE DESCRIBED IN THIS REPORT (13)										
CAUSE	SYSTEM	COMPONENT	MANUF. TURER	REPORTABLE TO NPRDS	CAUSE	SYSTEM	COMPONENT	MANUF. TURER	REPORTABLE TO NPRDS	

SUPPLEMENTAL REPORT EXPECTED (14)			EXPECTED SUBMISSION DATE (15)			
<input type="checkbox"/> YES (If yes, complete EXPECTED SUBMISSION DATE)			<input type="checkbox"/> NO	MONTH	DAY	YEAR

ABSTRACT (Limit to 1400 spaces, i.e., approximately fifteen single-space typewritten lines) (16)

On September 22, 1984, 12 Waste Gas Decay Tank was pressurized to 50 psi with nitrogen for purging. 12 Waste Gas Decay Tank was then released through the Unit I Main Vent from 1810 until 2155. At 0315 on September 23, 1984 in preparation to purge 12 Waste Gas Decay Tank it was determined that the Unit I Main Vent Particulate Monitor was out of service due to an inoperable paper drive. Further investigation revealed the detector was also out of service during the Waste Gas Decay Tank release on September 22, 1984. Environmental Technical Specification 2.3.B.4 requires the Main Vent Particulate Monitor be operable during releases of gaseous wastes from the Waste Gas Decay Tanks. Operating Instruction 17B, Waste Gas System, and the discharge permit also require the Main Vent particulate Monitor to be operable. The Control Room Operator performing the Waste Gas Decay Tank purge operation on September 22, 1984 mistakenly assumed the Main Vent Particulate Monitor was operable even though the paper drive was inoperable. The Waste Gas Discharge Radiation Monitor and the Main Vent Gaseous Detector were operable throughout the event. Operators have been instructed in the operation of the Main Vent Particulate Monitor via the General Supervisor-Operations notes and instructions. The Environmental Technical Specification will be replaced with Radiological Effluent Technical Specifications and the requirement for the Main Vent Particulate Monitor to be operable during Waste Gas Decay Tank releases will be deleted.

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LICENSEE EVENT REPORT (LER) TEXT CONTINUATION

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		YEAR	SEQUENTIAL NUMBER	REVISION NUMBER		
		84	012	00	02	OF 02

TEXT (If more space is required, use additional NRC Form 366A's) (17)

To perform maintenance on Waste Gas Decay Tanks (TK), it is necessary to purge the tanks of as much radioactive gaseous effluent and explosive mixtures as possible. The purge process is performed by pressurizing the Waste Gas Decay Tanks with nitrogen (LK) and releasing the gas through the Main Vent. On September 22, 1984, 12 Waste Gas Decay Tank was pressurized to 50 psi with nitrogen for purging and then released through the Unit I Main Vent from 1810 until 2155. At 0315 on September 23, 1984 in preparation to again purge 12 Waste Gas Decay Tank, it was determined that the Unit I Main Vent Particulate Monitor (IL) was out of service due to an inoperable paper drive. Further investigation revealed the Main Vent Particulate Monitor was also out of service during the previous Waste Gas Decay Tank release on September 22, 1984.

Environmental Technical Specification 2.3.B.4 requires the Main Vent Particulate Monitor to be operable during releases of gaseous wastes from the Waste Gas Decay Tanks. Operating Instruction 17B, Waste Gas System (WE), and the discharge permit also require the Main Vent Particulate Monitor to be operable. The Control Room Operator performing the Waste Gas Decay Tank purge operation on September 22, 1984 mistakenly assumed the Main Vent Particulate was operable even though the paper drive was inoperable. The air sample from the Main Vent enters the detector and flows across paper which is constantly moving. When the paper moves from the air sample flow path, it travels approximately one inch and is positioned in front of the detector to be counted. With the paper drive inoperable, the sample will not reach the detector to be counted. The operator assumed the air sample flowed across the paper at the point where the detector is positioned to count the sample. If this were the case, the detector reading would be very conservative and the detector would have been operable.

If the Waste Gas Decay Tank effluent would have contained high activity, the Main Vent Gaseous and the Waste Gas Discharge Radiation Monitors would have detected the activity and alarmed, prompting the Control Room personnel to secure venting the Waste Gas Decay Tank. Therefore, no potential or actual safety consequences existed with this event.

To prevent reoccurrence of this event, all licensed operations personnel have been instructed to consider the Main Vent Particulate Monitor out of service anytime the paper drive is inoperable via the General Supervisor-Operations notes and instructions. Additionally the Environmental Technical Specifications will be replaced with the Radiological Effluent Technical Specifications and the requirement for the Main Vent Particulate Monitor to be operable during Waste Gas Decay Tank releases will be deleted.

BALTIMORE GAS AND ELECTRIC COMPANY

P.O. BOX 1475

BALTIMORE, MARYLAND 21203

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

October 22, 1984

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

Docket No. 50-317  
License No. DPR 53

Dear Sirs:

The attached LER 84-12 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,

*LBR*  
*L. B. Russell*

L. B. Russell  
Plant Superintendent

LBR:MAJ:mdh

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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