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BALTIMORE GAS AND ELECTRIC COMPANY

GAS AND ELECTRIC BUILDING
BALTIMORE, MARYLAND 21203

July 13, 1979

ARTHUR E. LUNDVALL, JR.
VICE PRESIDENT
SUPPLY

Mr. Boyce H. Grier, Director
Region I, Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
631 Park Avenue
King of Prussia, PA 19406

Subject: Calvert Cliffs Nuclear Power Plant
Units Nos. 1 & 2, Dockets Nos. 50-317 & 50-318
Response to IE Bulletin 79-04

Reference: BG&E letter dated 4/30/79 from A. E. Lundvall, Jr.
to B. H. Grier, same subject.

Dear Mr. Grier:

The referenced letter forwarded initial response to IE Bulletin 79-04 and stated that we would provide, by July 16, 1979, the results of reanalyses to verify that certain piping stresses were within Code allowable. These stresses were associated with seven (7) lines which contained check valves whose weights were determined to be in excess of original design data. We have now completed the reanalyses, and the results show that the increased weights of the Velan valves has no significant impact on the overall stress calculations for the piping involved. The attached table summarizes the results of the analyses.

Very truly yours,



cc: Office of Inspection and Enforcement
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
Attn: Director, Division of Reactor Operations Inspection

Office of Nuclear Reactor Regulation
U. S. Nuclear Regulatory Commission
Washington, D. C. 20555
Attn: Mr. R. W. Reid, Chief, Branch #4

J. A. Biddison, Esquire
G. F. Trowbridge, Esquire
Mr. E. L. Conner, Jr.
Mr. P. W. Kruse - CE
Mr. J. W. Brothers - Bechtel

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TABLE 2

ITEM	STRESS (PSI)					SUPPORT UPSTREAM				SUPPORT DOWNSTREAM				REMARKS
	UPSTREAM		DOWNSTREAM		ALLOW.	TYPE	LOAD (lbs.)		ALLOW (lbs.)	TYPE	LOAD (lbs.)			
	OLD	NEW	OLD	NEW			OLD	NEW			OLD	NEW		
4" HC2-1369	DBE					H3	800	800	1130	N/A Valve within 6" of H3	-	-	-	No physical changes required. DCN's issued to reflect re-analysis.
	Seis.	565	1155	469	1123									
	Wt.	197	252	130	720									
	Press.	432	432	432	432									
	Total	1194	1839	1031	2275	29,000								
4" HB-66-1001	DBE					N/A	-	-	-	Penetration Cap	Fx 884 Fy 471 Fz 667 Mx 1830 My 4425 Mz 847	888 803 770 2541 4694 2068	Stresses well within allowable range. No significant increase.	Load changes on penetration do not cause any problem. No physical changes required. DCN's issued to reflect re-analysis.
	Seis.	191	1511	189	407									
	Wt.	187	747	159	159									
	Press.	201	201	201	201									
	Total	579	2459	549	767	31,000								
4" HB-66-2001	DBE					N/A	-	-	-	Penetration Cap	Fx 455 Fy 285 Fz 365 Mx 775 My 2245 Mz 700	407 748 416 1345 2375 2063	Stresses well within allowable range. No significant increase.	Same as above.
	Seis.	388	1487	113	405									
	Wt.	814	738	236	159									
	Press.	201	201	201	201									
	Total	1403	2426	550	765	31,000								
6" HB-52-1001 & 6" HB-52-2001 (Inside Cmt)	DBE					Penetration cap.	Fx 500 Fy 1800 Fz 1300 Mx 6700 My 4400 Mz 3400	Fx 688 Fy 2448 Fz 1624 Mx 5920 My 7314 Mz 2779	Stresses well within allowable range. No significant increase.	Pipe Anchor	Fx 1141 Fy 1454 Fz 1221 Mx 2236 My 1681 Mz 1921	1134 1532 1213 2680 1684 1921	2000 3000 2000 4000 4000 4000	Same as above.
Seis.	69	171	41	81										
Wt.	63	112	102	180										
Press.	648	648	648	648										
	Total	780	931	791	909	35,000								
6" HB-52-1001 & 6" HB-52-2001 (Outside Cmt)	DBE					H1	1600	1600	4000	Penetration Cap	Fx 500 Fy 1800 Fz 1300 Mx 6700 My 4400 Mz 3400	500 1900 1300 6700 4400 3400	Stresses well within allowable range. No significant increase.	Same as above.
Seis.	4756	3606	3548	3058										
Wt.	1927	2062	1446	1891										
Press.	643	648	648	648										
	Total	7331	6316	5642	5597	35,000								

Note: Improvements in the computer program use to perform these calculations, and improved modeling techniques now provide more accurate analysis; these changes account for the apparent discrepancies in this table.

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