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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)					TYPE	SUPPORT UPSTREAM			TYPE	SUPPORT DOWNSTREAM			REMARKS			
	UPSTREAM		DOWNSTREAM		ALLOW.		LOAD (lbs.)		ALLOW		LOAD (lbs.)						
	OLD	NEW	OLD	NEW	(lbs.)		OLD	NEW	(lbs.)		OLD	NEW	(lbs.)				
4" HC2-1369	DBE					H3	800	800	1130	N/A	-	-	-	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	888	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						Fy	471	803				
	Wt.	187	747	159	159						Fz	667	770				
	Press.	201	201	201	201						Mx	1830	2541				
	Total	579	2459	549	767	31,000				My	4425	4694					
4" HB-66-2001	DBE					N/A	-	-	-	Penetration Cap	Fx	455	407	Stresses well within allowable range. No significant increase.	Same as above.		
	Seis.	388	1487	113	405						Fy	285	748				
	Wt.	814	738	236	159						Fz	365	416				
	Press.	201	201	201	201						Mx	775	1345				
	Total	1403	2426	550	765	31,000				My	2245	2375					
6" HB-52-1001 & 6" HB-52-2001 (Inside Ctmt)	DBE					Penetration cap.	Fx	500	Fx	688	Stresses well within allowable range. No significant increase.	Fx	1141	1134	2000	Same as above.	
	Seis.	69	171	41	81		Fy	1800	Fy	2448		Fy	1444	1532			3000
	Wt.	63	112	102	180		Fz	1300	Fz	1624		Fz	1221	1213			2000
	Press.	648	648	648	648		Mx	6700	Mx	5920		Mx	2236	2680			4000
	Total	780	931	791	909	35,000				My	1681	1684	4000				
6" HB-52-1001 & 6" HB-52-2001 (Outside Ctmt)	DBE					H1	1600	1600	4000	Penetration Cap	Fx	500	500	Stresses well within allowable range. No significant increase.	Same as above.		
	Seis.	4756	3606	3548	3058						Fy	1800	1900				
	Wt.	1927	2062	1446	1891						Fz	1300	1300				
	Press.	648	648	648	648						Mx	6700	6700				
	Total	7331	6316	5642	5597	35,000				My	4400	4400					
											Mz	3400	3400				

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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