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June 1, 1979
IPN-79-30

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

Subject: Indian Point 3 Nuclear Power Plant
Docket No. 50-286
IE Bulletin 79-04

Dear Sir:

This letter is in response to NRC I.E. Bulletin 79-04 requesting information relevant to Velan valve weight data as compared with actual weights.

Attachment No. 1 is a tabulation identifying the specific swing check valves incorporated into the Indian Point 3 facility, the original weight data used in the piping analysis, the system and line in which the valve is installed, the change in weight, the percent deviation in weight as compared with the specific line weight between supports.

Of the 18 valves in question, 6 valve weights were correctly stated on vendor prints, 2 valve weights were greater than actual, 6 valve weights have deviations of 6% or less of the total line weight and 4 valves have weight deviations that are greater than 10% of the total line weight.

The valves range in size from 3" to 12" and are installed in either the Auxiliary Coolant System (ACS), the Chemical and Volume Control System (CVCS) or the Safety Injection System (SIS).

ADZ
CGP

Since all of these lines have been or will be reanalyzed as part of the Authority's response to I.E. Bulletin 79-07, the actual weights will be included in the calculations. Reanalysis of the 4 valves with weights in excess of 10% of the total line weights are scheduled for early analysis.

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The 6 valves with small deviations will not be further evaluated since the increase in piping stress due to the increase in valve weight has been considered insignificant in comparison with the deadweight and seismic stress levels.

The specific responses using the format of I.E. Bulletin 79-04 are as follows:

1. See Attachment No. 1 for listing of all Seismic Category I lines containing Velan valves with their identification.

2. See Attachment No. 1, Column 6, for tabulation of the weights used in the original piping analysis. Column 7 identifies the actual weight. This actual valve weight information was received from Velan by telephone on May 18, 1979 and was confirmed by Telex on May 30, 1979.

3. Of the 18 valves, 6 used the correct valve weights in the original analysis, 2 were heavier than actual and 6 of the remaining valves were judged to have small deviations that would not affect the piping analysis.

4. The remaining 4 valves will be included, with their corrected weights, in the analysis activity associated with I.E. Bulletin 79-07, which will tabulate summary of stresses, loads and allowable limits. These analyses will be completed by July 1, 1979.

5. The analytical techniques used for the analysis are described in Authority letters to the NRC dated April 24, May 22, 24 and 31, 1979 (all regarding stress analysis as related to I.E. Bulletin 79-07).

Very truly yours,

Paul J. Early
Assistant Chief Engineer-
Projects

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

ATTACHMENT NO. 1
RESPONSE TO NRC I.E. BULLETIN 79-04

5/30/79

1	2	3	4	5	6	7	8	9	10
Valve Mark Number	Valve Size	System	Line No.	Pressure Rating	Original Weight	Revised Weight	Δ Weight	$\frac{\Delta \text{ Weight}}{\text{Line Weight}} \times 100$	Isometric
790	3"	ACS	22	150	50	50	0	0	55573
210A	3"	CVCS	80	1500	60	85	25	3	51673
210B	3"	CVCS	96	1500	60	85	25	3	51873
374	3"	CVCS	19	1500	60	85	25	13*	51073/51613
852A	4"	SIS	145	900	100	135	35	4	55323
852B	4"	SIS	145	900	100	135	35	4	55323
849A	4"	SIS	56	900	100	135	35	6	55323
849B	4"	SIS	550	900	100	135	35	6	55583
770	6"	ACS	13	150	135	135	0	0	55023/55623/55633
838A	6"	SIS	355	1500	225	450	225	21*	55203
838B	6"	SIS	356	1500	225	450	225	40*	55683
838C	6"	SIS	358	1500	225	450	225	23*	55343
838D	6"	SIS	361	1500	600	450	-150	-0	55353
761A	10"	ACS	199	150	400	400	0	0	55003
761B	10"	ACS	209	150	400	400	0	0	55003
761C	10"	ACS	211	150	400	400	0	0	55003
751A	12"	ACS	53	150	620	690	0	0	55023
751B	10"	ACS	53A	150	450	400	-50	-0	55023

*Re-Analysis to be performed

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