



THE WM. POWELL COMPANY

2503 Spring Grove Avenue, P.O. Box 14006, Cincinnati, Ohio 45214, U.S.A.
513/852-2000

January 7, 1980

United States Nuclear Regulatory Commission
Region IV
611 Ryan Plaza Drive
Suite 1000
Arlington, Texas 76012

Attention: Mr. K.V. Seyfrit, Director

Reference: Our Status Report of November 12, 1979.

Dear Mr. Seyfrit:

The attached chart lists the revised natural frequency for all valves supplied to Mississippi Power and Light. This chart has been transmitted to our clients' engineering firm. Some frequencies still show NYA, indicating that they are not yet available. This is due to unexpected difficulty in implementing our new computer program. We expect to have this corrected and these valves evaluated by January 21.

We are proceeding with the evaluation of corrective action and each noncomplying valve will be subsequently evaluated as follows:

1. The reevaluation of those valves near or above 25 hertz by the more detailed finite element program procured from Franklin Laboratory.
2. The effect of stiffeners added to existing yoke arms.
3. The effect of replacement yoke arms. Such yoke arms might not only be stiffer and shorter, but might attach to the valve at locations different than present.
4. The effect of stiffening bonnets.
5. The effect of external bracing to the valve waterway or pipe run to correct a deficiency appearing in this direction only.

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POWELL VALVES

A

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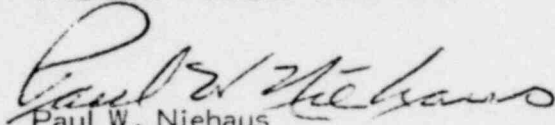
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6. The effect of complete circumferential bracing to the valve body and/or piping system.
7. The effect of potential modifications to or substitution of operators.

We plan to submit a progress report to you on February 1.

Sincerely,

THE WM. POWELL COMPANY



Paul W. Niehaus
V.P., Mfg. & Engineering

PWN/lr

Enclosure: Table I - Revised natural frequency for all valves supplied to MP&L.

Three copies to: Director, Office of Inspection and Enforcement
U.S. Nuclear Regulatory Commission
Washington, D.C. 20555

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TABLE ICLASS 150 GATE VALVES

VALVE SIZE	OPERATOR	REPORT NO.	ITEM NO.	NATURAL FREQUENCY
2½ & 3	Cylinder	68954	14.05 A	
			14.17 A-D	50.0
			14.20 A&B	63.1
			14.04 A-D	
			14.15 A&B	
			14.15 C&D	
			14.16 A	
			14.19 A	
			14.23 A&B	
			14.25 A	
			38.01 A	
			38.04 A	
			38.06 A&B	
2½ & 3	Motor	67791	10.20 A-H	58.6
			10.21 A	81.5
			10.14 A-O	
			10.14 Q-U	
			10.14 E-J	
			10.14 M-P	
4	Cylinder	68800	14.13 A&B	37.5
			14.13 C-F	50.7
			14.13 G	
			14.24 A&B	
			14.27 A	
			14.28 A	
			14.29 A	
14.30 A&B				

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CLASS 150 GATE VALVES

VALVE SIZE	OPERATOR	REPORT NO.	ITEM NO.	NATURAL FREQUENCY
4	Cylinder	68801	38.02 A-D	37.5 50.7
4	Motor	67776	10.11 A-D 10.12 A&B 10.13 A-F 10.19 A&B	64.0 88.7
6	Cylinder	68927	14.01 A&B 14.18 A&B 14.26 A 14.31 A&B	34.8 37.8
6	Motor	69845	10.18 A&B 45.02 A 45.03 A 10.18 C	58.7 66.3
8	Cylinder (14")	68953	14.11 A&B 14.11 C-F 14.21 A-D	21.8 22.8
8	Cylinder (12")	70925 (NEW)	14.32 A	26.3 27.6

CLASS 150 GATE VALVES

VALVE SIZE	OPERATOR	REPORT NO.	ITEM NO.	NATURAL FREQUENCY
8	Motor	67785	10.07 A-C	47.7
			10.08 A	51.9
			10.16 A	
8	Gear	68505	35.04	45.0
			5.16	51.0
10	Cylinder	68952	14.10 A-D	18.0
				19.0
10	Motor	67783	10.05 A	44.5
			10.06 A&B	50.5
12	Cylinder	68961	14.09 A-D	19.8
			38.03 A	21.5
			38.05 A	
			38.07 A	
			38.08 A	
12	Gear	68488	5.02 A&B	46.0
			5.10	65.4
			35.05	
			35.07	
18	Gear	68500 (NEW)	5.01	N.Y.A.

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CLASS 150 GATE VALVES

VALVE SIZE	OPERATOR	REPORT NO.	ITEM NO.	NATURAL FREQUENCY
20	Gear	68512	35.01	33.6 45.0
20	Motor	67780	45.01A	31.5 42.5
24	Motor	67779	10.01A	36.8 43.8

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CLASS 300 GATE VALVES

VALVE SIZE	OPERATOR	REPORT NO.	ITEM NO.	NATURAL FREQUENCY
4	Motor	67776	9.04 A&B	64.0
			9.05 A	88.7
			9.06 A-C	
			9.07 A	
12X10	Cylinder	70702	13.01 A	19.8
			13.01 D	24.6
			13.01 B&C	
			13.02 A-D	
14	Gear	68956	4.07	51.1
				62.7
18	Gear	68264 (NEW)	4.01	
			4.02	
18	Motor	69283	9.02 A&B	32.2
			9.03 C&D	47.5
			9.08 A&B	
			9.08 C&D	
24	Motor	67773	9.01 A-C	29.6
				32.8

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CLASS 150 GLOBE VALVES

VALVE SIZE	OPERATOR	REPORT NO.	ITEM NO.	NATURAL FREQUENCY
3	Motor	67807	42.01 A&B	54.6 73.8
8	Motor	67855	22.02 A	75.6 92.8
10	Cylinder	69958	47.01 A	50.5 58.7

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CLASS 300 GLOBE VALVES

VALVE SIZE	OPERATOR	REPORT NO.	ITEM NO.	NATURAL FREQUENCY
4	Motor	67804	21.04 A&B	43.3
			21.05 A	47.7
12	Motor	68804	21.07 A	42.9
			21.07 B	50.3
14	Motor	67803	21.03 A	37.8
			21.06 A	45.9
18	Motor	67802	21.01 A&B	27.1
			21.02 A&B	32.7

1749-027

CLASS 600 GATE VALVES

VALVE SIZE	OPERATOR	REPORT NO.	ITEM NO.	NATURAL FREQUENCY
4	Motor	67767	8.08 A	56.8
			8.09 A	85.6
4	Gear	67767	3.04	56.8
				85.6
4	Cylinder	70618	12.01 A&B	34.0
				40.8
6	Motor	67763	8.06 A	N.Y.A.
			8.07 A	
			8.10 A-D	
12	Gear	70570	3.03	N.Y.A.
12	Motor	70570	8.04 A	N.Y.A.
14	Gear	67770	3.01	N.Y.A.
14	Motor	67770	8.02 A&B	N.Y.A.
			8.03 A	
18	Motor	67769	8.01 A&B	N.Y.A.
			8.05 A&B	
28	Motor	68477	43.01 A-D	N.Y.A.

1749 028

CLASS 900 GATE VALVES

VALVE OPERATOR REPORT NO. ITEM NO. NATURAL
SIZE FREQUENCY

3	Motor	67764	7.06 A	26.8 32.9
3	Motor	67765 (NEW)	7.07 A 7.08 A	35.0 39.4
3	Cylinder	72995	48.01 A&B	47.0 54.2
4	Gear	67767	2.05 2.06 A&B 2.10 2.11	56.8 85.6
4	Motor	57767	7.14 A&B 7.15 A 7.17 A 7.18 A 44.02 A	56.8 85.6
4	Gear	68516	32.0 A-D 32.02	61.2 81.4
6	Gear	69235	2.04 2.13	74.4 81.7
6	Motor	69235	7.16 A&B 7.19 A	74.4 81.7
6	Motor	67763	44.01 A	N.Y.A.

1749 029

CLASS 900 GATE VALVES

VALVE SIZE	OPERATOR	REPORT NO.	ITEM NO.	NATURAL FREQUENCY
10	Motor	67761	7.03 A 7.04 A	N.Y.A.
20	Gear	67759	2.01	N.Y.A.
20	Motor	67759	7.01 A 7.12 A	N.Y.A.
24	Gear	68669	2.07	N.Y.A.
24	Motor	67758	7.11 A&B	N.Y.A.

1749 030

CLASS 900Y GLOBE VALVES

VALVE SIZE	OPERATOR	REPORT NO.	ITEM NO.	NATURAL FREQUENCY
3	Motor	67800	19.09 A&B	30.6 44.4
4	Motor	70957	46.02 A	30.2 38.6
4	Motor	67798	19.11 A 46.02 A 19.11 B	33.2 43.1
6	Motor	67797	46.01 A	23.8 29.0
6	Motor	67794	19.03 A	52.3 64.8
6	Motor	69323 (NEW)	19.12 A	52.3
8X6X8	Motor	67795 (NEW)	19.04 A&B 19.05 A&B	48.3 58.1
12X10X12	Motor	67793	19.02 A&B	N.Y.A.

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CLASS 600Y GLOBE VALVES

VALVE OPERATOR REPORT NO. ITEM NO. NATURAL
SIZE FREQUENCY

4 Motor 69340 20.02 A&B 34.5
41.5

6 Motor 69339 20.01 A 52.3
64.8