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W. JAMES LIPPOLD
MANAGER
NUCLEAR ENGINEERING SERVICES DEPARTMENT

June 13, 1988

U. S. Nuclear Regulatory Commission
Washington, DC 20555

ATTENTION: Document Control Desk

SUBJECT: Calvert Cliffs Nuclear Power Plant
Unit Nos. 1 & 2; Docket Nos. 50-317 & 50-318
Relief Valve Setpoints and Testing

REFERENCES: (a) Letter from Mr. W. J. Lippold (BG&E) to NRC Document Control Desk, dated May 18, 1988, ASME Section XI Relief Valve Testing Requirements

(b) Letter from Mr. J. R. Lemons (BG&E) to NRC Document Control Desk, dated April 6, 1988, Request for Relief from ASME Section XI Relief Valve Testing Requirements

Gentlemen:

In accordance with Reference (a), this letter provides the additional information on the safety-related relief valves not included in our ASME Section XI Inservice Test (IST) program. Attachments 1 and 2 are a data matrix for those remaining safety-related valves.

The information in Attachments 1 and 2 is in response to your request. This information is beyond the scope of our original relief request in Reference (b), and as such, does not supplement that request.

Attachments 1 and 2 display relief valve data in a format similar to that provided in Reference (a). The valves in Attachments 1 and 2 are not required to be part of any testing program. Therefore, test data are not available for some of the valves. Furthermore, certain design information is not available because the valves in question are sub-components of vendor-supplied equipment.

In keeping with other requests for information, we are including an assessment of the effort expended to provide you with the information desired. Over 550 man-hours were expended by our engineering staff and architect/engineer to produce Attachment 1. This includes about 100 hours of our architect/engineer's time. The BG&E personnel required

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to assemble and review this data would otherwise have been working on our check valve program in response to INPO SOER 86-3 and as a result, that program has been delayed several weeks. The check valve program addresses concerns expressed in various Information Notices, Bulletins and NUREGs.

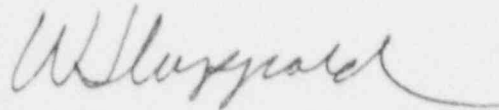
In Attachment 1 of Reference (a), Note 3 stated that two Unit 1 valves (CVC-315 and CVC-321) had "as left" relieving pressures exceeding code tolerance. Those valves have since been reset to within code tolerance.

Note K in Attachments 1 and 2 explains which codes were used to determine tolerances for the listed valves. In addition, this note references the codes used for the IST valves in Reference (a). These codes do not necessarily reflect the construction code for all the relief valves.

As stated in References (a) and (b), our architect/engineer will re-verify the correct setpoints for safety-related relief valves by November 1988.

Should you have any further questions regarding this information, we will be pleased to discuss them with you.

Very truly yours,



WJL/SRC/dlm

Attachment

cc: D. A. Brune, Esquire
J. E. Silberg, Esquire
R. A. Capra, NRC
S. A. McNeil, NRC
W. T. Russell, NRC
D. C. Trimble, NRC

ATTACHMENT I
SAFETY RELATED NONIST
RELIEF VALVE DATA MATRIX SHEET

RUN DATE 06/13/88

UNIT	VALVE NUMBER	P&ID	LINE SIZE IN INCHES AND LINE NUMBER	ANSI/ASME CODE & CLASS	VALVE SIZE		ACC %	SET PRESS PSIG	LAST TEST	AS LEFT SETTING PSIG	BACK PRESS PSI NOTE K	AS LEFT RELEV PRESS PSIG	SYS DESIGN PRESS PSIG	CODE TOLERANCE PSI	MODE TO RESET	RESET DATES SEE NOTES
					INLET INCHES	OUTLET INCHES										
0	DCM-4811	M69	SKID PIPING	MANUFACTURER	1.	1.5	C	30.	12/21/87	32.	0.	32.	40.	+/-2	NONOUTAGE	A
	DCM-4812	M69	SKID PIPING	MANUFACTURER	1.	1.5	C	30.	11/26/86	35.	0.	35.	40.	+/-2	NONOUTAGE	A
	DCM-4813	M69	SKID PIPING	MANUFACTURER	1.	1.5	C	30.	10/29/85	29.	0.	29.	40.	+/-2	NONOUTAGE	A
	DFD-4818	M69	SKID PIPING	MANUFACTURER	0.5	0.5	C	25.	11/10/86	23.5	2.2	25.7	50.	H	NONOUTAGE	A
	DFD-4823	M69	SKID PIPING	MANUFACTURER	0.5	0.5	C	25.	06/11/85	26.	2.2	28.2	50.	H	NONOUTAGE	A
	DFD-4828	M69	SKID PIPING	MANUFACTURER	0.5	0.5	C	25.	10/29/85	24.	2.2	26.2	50.	H	NONOUTAGE	A
	DLD-4775	M69	SKID PIPING	MANUFACTURER	0.5	0.5	C	30.	12/09/86	30.	0.	30.	80.	H	NONOUTAGE	A
	DLD-4776	M69	SKID PIPING	MANUFACTURER	0.5	0.5	C	30.	04/26/84	30.	0.	30.	80.	H	NONOUTAGE	A
	DLD-4777	M69	SKID PIPING	MANUFACTURER	0.5	0.5	C	30.	04/02/87	30.	0.	30.	80.	H	NONOUTAGE	A
	DSA-4830	M69	TANK	ASME VIII DV1	.5	0.75	C	255.	02/12/88	263.	0.	263.	275.	+/-8.3	NONOUTAGE	A
	DSA-4831	M69	TANK	ASME VIII DV1	.5	0.75	C	255.	10/21/86	256.5	0.	256.5	275.	+/-8.3	NONOUTAGE	A
	DSA-4834	M69	TANK	ASME VIII DV1	.5	0.75	C	255.	10/20/86	248.5	0.	248.5	275.	+/-8.3	NONOUTAGE	A
	DSA-4835	M69	TANK	ASME VIII DV1	.5	0.75	C	255.	10/20/86	256.5	0.	256.5	275.	+/-8.3	NONOUTAGE	A
	DSA-4838	M69	TANK	ASME VIII DV1	.5	0.75	C	255.	10/29/85	258.	0.	258.	275.	+/-8.3	NONOUTAGE	A
	DSA-4839	M69	TANK	ASME VIII DV1	.5	0.75	C	255.	02/12/88	250.3	0.	250.3	275.	+/-8.3	NONOUTAGE	A
	SFP-1997	M58	B-WC4-1005	B31.7 CLASS III	1.5	2.	10	150.	04/18/85	154.6	0.	154.6	160.	+/-4.8	NONOUTAGE	A

NOTES

- A: AS LEFT RELIEVING PRESSURE BELOW SYSTEM DESIGN PRESSURE.
 B: AS LEFT RELIEVING PRESSURE ABOVE SYSTEM DESIGN PRESSURE BUT WITHIN CODE TOLERANCE. VALVE SET PRESSURE WILL BE ADJUSTED DURING NEXT SCHEDULED TEST.
 C: PERCENT ACCUMULATION UNKNOWN. VALVE IS SUBCOMPONENT OF VENDOR SUPPLIED EQUIPMENT.
 D: VALVE SIZE UNKNOWN. VALVE IS INTERNAL PART OF PUMP.
 E: MAINTENANCE TEST PROCEDURE NOT DEVELOPED FOR THIS VALVE. HOWEVER, VALVE SET PRESSURE IS BELOW SYSTEM DESIGN PRESSURE.
 F: UNABLE TO LOCATE TEST RECORDS. HOWEVER, SET PRESSURE BELOW OR EQUAL TO SYSTEM DESIGN PRESSURE. SET PRESSURE WILL BE CHECKED AT THE NEXT SCHEDULED TEST.
 G: BACK PRESSURE VALUE UNAVAILABLE. VALVE DISCHARGES TO A COMMON DISCHARGE HEADER. HOWEVER, VALVE SET PRESSURE BELOW SYSTEM DESIGN PRESSURE..
 H: VALVE IS NOT A CODE VALVE. VENDOR HAS NOT ESTABLISHED A TOLERANCE.
 I: VALVE SET PRESSURE ABOVE DESIGN PRESSURE PLUS CODE TOLERANCE. HOWEVER, SYSTEM STRESSES REMAIN WITHIN CODE LIMITS. REVIEW OF SET PRESSURE IN PROGRESS.
 J: ZERO BACK PRESSURE RELIEF VALVES HAVE BEEN VERIFIED BY FIELD WALKDOWN. NON-ZERO BACK PRESSURE VALVES TO BE REVERIFIED BY NOVEMBER 1988.
 K: CODE TOLERANCE OBTAINED FROM FOLLOWING CODES: 1. ASME SECTION VIII 1968 EDITION FOR B31.7 CLASS II AND III VALVES AND SECTION VIII VALVES.
 2. ASME III 1965 EDITION FOR ASME SECTION III VALVES.
 M: UNABLE TO LOCATE TEST RECORDS FOR THIS VALVE.

UNIT	VALVE NUMBER	PA18	LINE SIZE IN INCHES AND LINE NUMBER	ANSI/ASME CODE & CLASS	VALVE SIZE INLET INCHES	VALVE SIZE OUTLET INCHES	ACC I	SET PRESS PSIG	LAST TEST	AS LEFT SETTING PSIG	BACK PRESS PSI NOTE #	AS LEFT RELV PRESS PSIG	SYS DESIGN PRESS PSIG	CODE TOLERANCE	MOVE TO RESET	RESET DATES SEE NOTES
SFP-1998	MSB		8-NC4-2005	B31.7 CLASS III	1.5	2	10	150	04/19/85	155	0	155	160	+/-4.8	NONOUTAGE	A

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- M: UNABLE TO LOCATE TEST RECORDS FOR THIS VALVE.

UNIT	VALVE NUMBER	P&ID	LINE SIZE IN INCHES AND LINE NUMBER	ANSI/ASME CODE & CLASS	VALVE SIZE		ACC %	SET PRESS PS16	LAST TEST	AS LEFT SETTING PS16	BACK PRESS PS1 NOTE X	AS LEFT PRESS PS16	SYS DESIGN PRESS PS16	CODE TOLERANCE PSI	MODE TO RESET	RESET DATES SEE NOTES
					INLET INCHES	OUTLET INCHES										
1	SRW-1575	M46	HEAT EXCHGR	ASME VIII	1.	1.5	10	150.	11/12/85	151.	0.	151.	175.	+/-5.3	NONOUTAGE	A
	SRW-1577	M46	HEAT EXCHGR	ASME VIII	1.	1.5	10	150.	11/03/81	151.	0.	151.	175.	+/-5.3	NONOUTAGE	A
	SRW-1582	M46	8-HB22-1017	B31.1	0.75	1.	10	150.	11/24/86	148.	0.	148.	150.	+/-4.5	OUTAGE	A
	SRW-1585	M46	8-HB22-1029	B31.1	0.75	1.	10	150.	11/24/86	152.	0.	152.	150.	+/-4.5	OUTAGE	B
	SRW-1587	M46	6-HB22-1021	B31.1	1.5	3.	10	75.	06/21/85	75.	0.	75.	175.	+/-4.5	NONOUTAGE	A
	SRW-1588	M46	6-HB22-1024	B31.1	1.5	3.	10	75.	12/18/85	77.	0.	77.	150.	+/-4.5	NONOUTAGE	A
	SRW-1590	M46	8-HB22-1276	B31.1	0.75	1.	10	150.	11/05/86	148.6	0.	148.6	150.	+/-4.5	OUTAGE	A
	SRW-1593	M46	8-HB22-1030	B31.1	0.75	1.	10	150.	11/05/86	150.	0.	150.	150.	+/-4.5	OUTAGE	A
	SRW-1596	M46	8-HB22-1140	B31.1	0.75	1.	10	150.			0.		150.	+/-4.5	OUTAGE	F
	SRW-1598	M47	8-HB22-2141	B31.1	0.75	1.	10	150.			0.		150.	+/-4.5	NONOUTAGE	F
	SRW-4084	M464	10-HB22-1382	B31.1	0.75	1.	10	150.	06/18/86	151.	0.	151.	150.	+/-4.5	OUTAGE	B
	SW-5205	M49	8-MC6-1004	B31.1	0.75	0.75	10	50.	03/04/86	51.	0.	51.	50.	+/-2	NONOUTAGE	B
	SW-5206	M49	24-LJ1-1013	B31.1	2.	2.	10	50.	03/04/86	51.	0.	51.	50.	+/-2	NONOUTAGE	B
	SW-5207	M49	8-MC6-1033	B31.1	0.75	0.75	10	50.	09/15/81	51.	0.	51.	50.	+/-2	NONOUTAGE	B
	SW-5208	M49	24-LJ1-1014	B31.1	2.	2.	10	50.	08/19/81	49.6	0.	49.6	50.	+/-2	NONOUTAGE	A
	SW-5210	M49	36-LJ1-1024	B31.1	1.5	2.	10	50.	08/11/81	51.	0.	51.	50.	+/-2	NONOUTAGE	B
	SW-5212	M49	36-LJ1-1027	B31.1	1.5	2.	10	50.	03/05/86	49.	0.	49.	50.	+/-2	NONOUTAGE	A
	CC-3823	M51	HEAT EXCHGR	ASME VIII	1.	1.5	10	110.			0.		150.	+/-4.5	NONOUTAGE	F

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UNIT	VALVE NUMBER	P&ID	LINE SIZE IN INCHES AND LINE NUMBER	ANSI/ASME CODE & CLASS	VALVE SIZE		ACC I	SET PRESS PSIG	LAST TEST	AS LEFT SETTING PSIG	BACK PRESS PSIG NOTE K	AS LEFT RELEV PRESS PSIG	SYS DESIGN PRESS PSIG	CODE TOLERANCE PSI	MODE TO RESET	RESET DATES SEE NOTES
					INLET INCHES	OUTLET INCHES										
CC-3825	M51		HEAT EXCHGR	ASME VIII	1.	1.5	10	110.	09/12/85	109.7	0.	109.7	150.	+/-4.5	NONOUTAGE	A
CC-3827	M51		16-HB23-1023	B31.1	1.5	2.	10	110.	01/03/85	110.6	0.	110.6	150.	+/-4.5	NONOUTAGE	A
CC-3829	M51		16-HB23-1043	B31.1	1.5	2.	10	110.	11/07/86	112.	0.	112.	150.	+/-4.5	NONOUTAGE	A
CC-3831	M51		10-HB23-1015	B31.1	1.	1.25	10	110.	04/25/88	111.	0.	111.	150.	+/-4.5	OUTAGE	A
CC-3843	M51		.75-HB23 PIPE	B31.1	0.75	1.	10	110.			0.		150.	+/-4.5	NONOUTAGE	F
PS-6471	M66		2-HB23-1224	B31.1	0.75	0.75	C	125.			0.		150.	+/-4.5	NONOUTAGE	F
PS-6450A	M66		.5-HB23-1245	B31.1	.5	0.5	C	125.	09/01/81	125.	0.	125.	150.	+/-4.5	NONOUTAGE	A
PS-6472	M66		2-HB23-1224	B31.1	0.75	0.75	C	125.	11/06/85	124.	0.	124.	150.	+/-4.5	NONOUTAGE	A
CVC-125	M73		2-HC7-1031	B31.1	0.75	1.	10	140.	11/05/86	144.	0.	144.	125.	+/-5.3	NONOUTAGE	I
CVC-132	M73		3-HC6-1004	B31.1	0.75	1.	10	50.			0.		25.	+/-2	NONOUTAGE	I, M
CVC-133	M73		.5-HC7-1013	B31.1	0.75	1.	10	140.	04/01/87	140.	0.	140.	125.	+/-3.8	NONOUTAGE	I
CVC-141	M73		3-HC6-1003	B31.1	0.75	1.	10	50.			0.		25.	+/-2	NONOUTAGE	I, M
CVC-149	M73		2-HC7-1008	B31.1	0.75	1.	10	140.	04/13/87	139.	0.	139.	125.	+/-3.8	NONOUTAGE	I
CVC-150	M73		.5-HC7-1009	B31.1	0.75	1.	10	140.	04/12/87	141.	0.	141.	125.	+/-3.8+	NONOUTAGE	I
CVC-157	M73		3-HC7-1019	B31.1	0.75	1.	10	140.	05/14/85	142.	0.	142.	125.	+/-3.8	OUTAGE	I
CVC-160	M73		3-HC7-1004	B31.1	0.75	1.	10	140.	04/01/87	141.	0.	141.	125.	+/-3.8	OUTAGE	I
CVC-171	M73		1-HC7-1007	B31.1	0.75	1.	10	140.	05/14/85	142.	0.	142.	125.	+/-3.8	OUTAGE	I
CVC-194	M73		H3-HC7-1018	B31.1	0.75	1.	10	140.			60.		125.	+/-3.8	OUTAGE	I, M

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UNIT	VALVE NUMBER	PAID	LINE SIZE IN INCHES AND LINE NUMBER	ANSI/ASME CODE & CLASS	VALVE SIZE		ACC	SET PRESS	LAST TEST	AS LEFT SETTING PSI	BACK PRESS PSI	AS LEFT RELIEV PRESS PSI	SYS DESIGN PRESS PSI	CODE TOLERANCE	MODE TO RESET	RESET DATES SEE NOTES
					INLET INCHES	OUTLET INCHES										
SI-407	M74		2-6C7-1014	B31.7 CLASS II	0.75	1.10	10	510.			10.		488.	+/-14.6	OUTAGE	1.M
SI-416A	M74		2.5-6C23-1004	B31.7 CLASS III	1.5	2.10	10	100.	01/15/87	100.	0.	100.	200.	+/-6	NOOUTAGE	A
SI-430	M74		4-6C3-1005	B31.7 CLASS II	0.75	0.75	10	500.	02/20/88	507.	0.	507.	500.	+/-15	OUTAGE	B
SI-431	M74		4-6C3-1004	B31.7 CLASS II	0.75	0.75	10	500.	06/11/85	510.	0.	510.	500.	+/-15	OUTAGE	B
SI-439	M74		6-6C1-10-	B31.7 CLASS II	0.75	1.10	10	500.	11/21/86	500.	0.	500.	500.	+/-15	OUTAGE	A
SI-446	M74		2-6C7-1010	B31.7 CLASS II	2.5	4.10	10	360.	04/15	362.	0.	362.	488.	+/-14.6	OUTAGE	A

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					INLET INCHES	OUTLET INCHES										
2	SRW-1575	M47	HEAT EXCHGR	ASME VIII	1.	1.5	10	150.	11/07/85	151.8	0.	151.75	175.	+/-5.3	NONOUTAGE	A
	SRW-1577	M47	HEAT EXCHGR	ASME VIII	1.	1.5	10	150.	10/30/85	147.3	0.	147.3	175.	+/-5.3	NONOUTAGE	A
	SRW-1582	M47	8-HB22-2017	B31.1	0.75	1.	10	150.	05/02/84	149.	0.	149.	150.	+/-4.5	OUTAGE	A
	SRW-1585	M47	8-HB22-2029	B31.1	0.75	1.	10	150.	05/10/84	147.	0.	147.	150.	+/-4.5	OUTAGE	A
	SRW-1587	M69	6-HB22-2021	B31.1	1.5	3.	10	75.	10/31/85	77.	0.	77.	150.	+/-4.5	NONOUTAGE	A
	SRW-1590	M47	8-HB22-2276	B31.1	0.75	1.	10	150.	05/12/84	150.	0.	150.	150.	+/-4.5	OUTAGE	A
	SRW-1593	M47	8-HB22-2030	B31.1	0.75	1.	10	150.	05/09/84	150.	0.	150.	150.	+/-4.5	OUTAGE	A
	SRW-4084	M464	10-HB22-2382	B31.1	0.75	1.	10	150.	11/08/85	150.	0.	150.	150.	+/-4.5	OUTAGE	A
	SW-5205	M450	8-NC6-2004	B31.1	0.75	0.75	10	50.	08/04/83	51.6	0.	51.6	50.	+/-2	NONOUTAGE	B
	SW-5206	M450	24-LJ1-2014	B31.1	2.	2.	10	50.	04/29/87	51.	0.	51.	50.	+/-2	NONOUTAGE	B
	SW-5207	M450	8-NC6-2003	B31.1	0.75	0.75	10	50.	10/15/85	49.6	0.	49.6	50.	+/-2	NONOUTAGE	A
	SW-5208	M450	24-LJ1-2013	B31.1	2.	2.	10	50.	10/25/85	49.6	0.	49.6	50.	+/-2	NONOUTAGE	A
	SW-5210	M450	36-LJ1-2024	B31.1	1.5	2.	10	50.	07/24/84	49.	0.	49.	50.	+/-2	NONOUTAGE	A
	SW-5212	M450	36-LJ1-2027	B31.1	1.5	2.	10	50.	10/15/85	51.	0.	51.	50.	+/-2	NONOUTAGE	B
	CC-3823	M452	HEAT EXCHGR	ASME VIII	1.	1.5	10	110.	11/06/85	109.8	0.	109.75	150.	+/-4.5	NONOUTAGE	A
	CC-3825	M452	HEAT EXCHGR	ASME VIII	1.	1.5	10	110.	10/31/85	108.	0.	108.	150.	+/-4.5	NONOUTAGE	A
	CC-3827	M452	16-HB23-2023	B31.1	1.5	2.	10	110.	04/06/87	110.	0.	110.	150.	+/-4.5	NONOUTAGE	A
	CC-3829	M452	16-HB23-2043	B31.1	1.5	2.	10	110.	04/06/87	110.	0.	110.	150.	+/-4.5	NONOUTAGE	A

NOTES

- A: AS LEFT RELIEVING PRESSURE BELOW SYSTEM DESIGN PRESSURE.
 B: AS LEFT RELIEVING PRESSURE ABOVE SYSTEM DESIGN PRESSURE BUT WITHIN CODE TOLERANCE. VALVE SET PRESSURE WILL BE ADJUSTED DURING NEXT SCHEDULED TEST.
 C: PERCENT ACCUMULATION UNKNOWN. VALVE IS SUBCOMPONENT OF VENDOR SUPPLIED EQUIPMENT.
 D: VALVE SIZE UNKNOWN. VALVE IS INTERNAL PART OF PUMP.
 E: MAINTENANCE TEST PROCEDURE NOT DEVELOPED FOR THIS VALVE. HOWEVER, VALVE SET PRESSURE IS BELOW SYSTEM DESIGN PRESSURE.
 F: UNABLE TO LOCATE TEST RECORDS. HOWEVER, SET PRESSURE BELOW OR EQUAL TO SYSTEM DESIGN PRESSURE. SET PRESSURE WILL BE CHECKED AT THE NEXT SCHEDULED TEST.
 G: 84" PRESSURE VALUE UNAVAILABLE. VALVE DISCHARGES TO A COMMON DISCHARGE HEADER. HOWEVER, VALVE SET PRESSURE BELOW SYSTEM DESIGN PRESSURE.
 H: VALVE IS NOT A CODE VALVE. VENDOR HAS NOT ESTABLISHED A TOLERANCE.
 I: VALVE SET PRESSURE ABOVE DESIGN PRESSURE PLUS CODE TOLERANCE. HOWEVER, SYSTEM STRESSES REMAIN WITHIN CODE LIMITS. REVIEW OF SET PRESSURE IN PROGRESS.
 J: ZERO BACK PRESSURE RELIEF VALVES HAVE BEEN VERIFIED BY FIELD WALKDOWN. NON-ZERO BACK PRESSURE VALVES TO BE REVERIFIED BY NOVEMBER 1988.
 K: CODE TOLERANCE OBTAINED FROM FOLLOWING CODES: 1. ASME SECTION VIII 1968 EDITION FOR B31.7 CLASS II AND III VALVES AND SECTION VIII VALVES.
 2. ASME III 1965 EDITION FOR ASME SECTION III VALVES.
 M: UNABLE TO LOCATE TEST RECORDS FOR THIS VALVE.

UNIT	VALVE NUMBER	P&ID	LINE SIZE IN INCHES AND LINE NUMBER	ANSI/ASME CODE & CLASS	VALVE SIZE		ACC I	SET PRESS PSIG	LAST TEST	AS LEFT SETTING PSIG	BACK PRESS PSI NOTE K	AS LEFT RELEV PRESS PSIG	SYS DESIGN PRESS PSIG	CODE TOLERANCE PSI	MODE TO RESET	RESET DATES SEE NOTES
					INCH	CHES										
CC-3831	M452		10-HC7-2015	B31.1	1.	1.25	10	110.	05/19/87	110.	0.	110.	150.	+/-4.5	OUTAGE	J
PS-6450A	M66		.75-HB23-2245	B31.1	.5	0.5	C	125.	11/10/85	124.		124.	150.	+/-4.5	NONOUTAGE	A
PS-6471	M66		HB23 PIPING	B31.1	.5	0.5	C	175.	11/07/85	127.		177.	150.	+/-4.5	NONOUTAGE	A
PS-6472	M66		HB23 PIPING	B31.1	.5	0.5	C	125.	01/31/85	124.			150.	+/-4.5	NONOUTAGE	A
CVC-125	M461		2-HC7-2031	B31.1	0.75	1.	10	140.	11/06/85	140.	0.	140.	125.	+/-3.8	NONOUTAGE	I
CVC-132	M461		3-HC6-2004	B31.1	0.75	1.	10	50.	12/11/85	50.	0.	50.	25.	+/-2	NONOUTAGE	I
CVC-133	M461		.5-HC7-2013	B31.1	0.75	1.	10	140.	04/01/87	140.	0.	140.	125.	+/-3.8	NONOUTAGE	I
CVC-141	M461		3-HC6-2003	B31.1	0.75	1.	10	50.	11/20/85	50.	0.	50.	25.	+/-2	NONOUTAGE	I
CVC-149	M461		2-HC7-2008	B31.1	0.75	1.	10	140.	04/13/87	139.	0.	139.	125.	+/-3.8	NONOUTAGE	I
CVC-150	M461		.5-HC7-2009	B31.1	0.75	1.	10	140.	04/12/87	141.	0.	141.	125.	+/-3.8	NONOUTAGE	I
CVC-157	M461		3-HC7-2019	B31.1	0.75	1.	10	140.	11/06/85	140.	0.	140.	125.	+/-3.8	OUTAGE	I
CVC-160	M461		3-HC7-2004	B31.1	0.75	1.	10	140.	04/01/87	141.	0.	141.	125.	+/-3.8	OUTAGE	I
CVC-171	M461		1-HC7-2007	B31.1	0.75	1.	10	140.	12/11/85	140.	0.	140.	125.	+/-3.8	OUTAGE	I
CVC-19A	M461		H3-HC7-2018	B31.1	0.75	1.	10	140.	03/18/86	140.	60.	200.	125.	+/-3.8	OUTAGE	I
SI-407	M462		2-6C7-2010	B31.7 CLASS II	0.75	1.	10	510.			0.		488.	+/-14.6	OUTAGE	I, M
SI-430	M462		4-6C3-2008	B31.7 CLASS II	0.75	0.75	10	500.	11/06/85	500.	0.	500.	500.	+/-15	OUTAGE	A
SI-431	M462		4-6C3-2004	B31.7 CLASS II	0.75	0.75	10	500.	04/01/87	505.	0.	505.	500.	+/-15	OUTAGE	B
SI-439	M462		6-6C1-2006	B31.7 CLASS II	0.75	1.	10	500.	05/22/87	510.	0.	510.	500.	+/-15	OUTAGE	B

NOTES

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B: AS LEFT RELIEVING PRESSURE ABOVE SYSTEM DESIGN PRESSURE BUT WITHIN CODE TOLERANCE. VALVE SET PRESSURE WILL BE ADJUSTED DURING NEXT SCHEDULED TEST.
C: PERCENT ACCUMULATION UNKNWN. VALVE IS SUBCOMPONENT OF VENDOR SUPPLIED EQUIPMENT.
D: VALVE SIZE UNKNWN. VALVE IS INTERNAL PART OF PUMP.
E: MAINTENANCE TEST PROCEDURE NOT DEVELOPED FOR THIS VALVE. HOWEVER, VALVE SET PRESSURE IS BELOW SYSTEM DESIGN PRESSURE.
F: UNABLE TO LOCATE TEST RECORDS. HOWEVER, SET PRESSURE BELOW OR EQUAL TO SYSTEM DESIGN PRESSURE. SET PRESSURE WILL BE CHECKED AT THE NEXT SCHEDULED TEST.
G: BACK PRESSURE VALUE UNAVAILABLE. VALVE DISCHARGES TO A COMMON DISCHARGE HEADER. HOWEVER, VALVE SET PRESSURE BELOW SYSTEM DESIGN PRESSURE..
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I: VALVE SET PRESSURE ABOVE DESIGN PRESSURE PLUS CODE TOLERANCE. HOWEVER, SYSTEM STRESSES REMAIN WITHIN CODE LIMITS. REVIEW OF SET PRESSURE IN PROGRESS.
J: ZERO BACK PRESSURE RELIEF VALVES HAVE BEEN VERIFIED BY FIELD WALKDOWN. NON-ZERO BACK PRESSURE VALVES TO BE REVERIFIED BY NOVEMBER 1988.
K: CODE TOLERANCE OBTAINED FROM FOLLOWING CODES: 1. ASME SECTION VIII 1968 EDITION FOR B31.7 CLASS II AND III VALVES AND SECTION VIII VALVES.
2. ASME III 1965 EDITION FOR ASME SECTION III VALVES.
M: UNABLE TO LOCATE TEST RECORDS FOR THIS VALVE.

UNIT	VALVE NUMBER	P&ID	LINE SIZE IN INCHES AND LINE NUMBER	ANSI/ASME CODE & CLASS	VALVE INLET INCHES	VALVE SIZE INCHES	ACC 2	SET PRESS PSIG	LAST TEST	AS LEFT SETTING PSIG	BACK PRESS PSIG	AS LEFT RELV PRESS PSIG	SYS DESIGN PRESS PSIG	CODE TOLERANCE	MODE TO RESET	RESET DATES SEE NOTES
SI-446	M462	2-8C7-2011	2.5	B31.7 CLASS II	4.10	360.03/30/88	363.	0.	363.	486.	-14.6	OUTAGE	A			

NOTES

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- D: PERCENT ACCUMULATION UNKNOWN. VALVE IS SUBCOMPONENT OF VENDOR SUPPLIED EQUIPMENT.
- E: VALVE SIZE UNKNOWN. VALVE IS INTERNAL PART OF PUMP.
- F: MAINTENANCE TEST PROCEDURE NOT DEVELOPED FOR THIS VALVE. HOWEVER, VALVE SET PRESSURE IS BELOW SYSTEM DESIGN PRESSURE.
- G: UNABLE TO LOCATE TEST RECORDS. HOWEVER, SET PRESSURE BELOW OR EQUAL TO SYSTEM DESIGN PRESSURE. SET PRESSURE WILL BE CHECKED AT THE NEXT SCHEDULED TEST.
- H: BACK PRESSURE VALUE UNAVAILABLE. VALVE DISCHARGES TO A COMMON DISCHARGE HEADER. HOWEVER, VALVE SET PRESSURE BELOW SYSTEM DESIGN PRESSURE.
- I: VALVE IS NOT A CODE VALVE. VENDOR HAS NOT ESTABLISHED A TOLERANCE.
- J: VALVE SET PRESSURE ABOVE DESIGN PRESSURE PLUS CODE TOLERANCE. HOWEVER, SYSTEM STRESSES REMAIN WITHIN CODE LIMITS. REVIEW OF SET PRESSURE IN PROGRESS.
- K: ZERO BACK PRESSURE RELIEF VALVES HAVE BEEN VERIFIED BY FIELD WALKDOWN. NON-ZERO BACK PRESSURE VALVES TO BE REVERIFIED BY NOVEMBER 1988.
- L: CODE TOLERANCE OBTAINED FROM FOLLOWING CODES: 1. ASME SECTION VIII 1968 EDITION FOR B31.7 CLASS II AND III VALVES AND SECTION VIII VALVES.
- M: UNABLE TO LOCATE TEST RECORDS FOR THIS VALVE.

UNIT	VALVE NUMBER	P&ID	LINE SIZE IN INCHES AND LINE NUMBER	ANSI/ASME CODE & CLASS	VALVE SIZE		ACC	SET PRESS	BACK PRESS PSI	SYS DESIGN PRESS PSIG	CODE TOLERANCE PSI	MODE TO RESET	NOTES
					INLET INCHES	OUTLET INCHES							
0	DF0-4814	M69	INTERNAL TO PP	MANUFACTURER	D	C	C				H	NONOUTAGE	L
	DF0-4815	M69	INTERNAL TO PP	MANUFACTURER	D	C	C				H	NONOUTAGE	L
	DF0-4824	M69	INTERNAL TO PP	MANUFACTURER	D	C	C				H	NONOUTAGE	L
	DLO-4778	M69	INTERNAL TO PP	MANUFACTURER	D	C	C	80.	0.	80.	H	NONOUTAGE	E
	DLO-4779	M69	INTERNAL TO PP	MANUFACTURER	D	C	C	25.	0.	80.	H	NONOUTAGE	E
	DLO-4780	M69	INTERNAL TO PP	MANUFACTURER	D	C	C	25.	0.	80.	H	NONOUTAGE	E
	DLO-4786	M69	INTERNAL TO PP	MANUFACTURER	D	C	C	80.	0.	80.	H	NONOUTAGE	E
	DLO-4787	M69	INTERNAL TO PP	MANUFACTURER	D	C	C	25.	0.	80.	H	NONOUTAGE	E
	DLO-4788	M69	INTERNAL TO PP	MANUFACTURER	D	C	C	25.	0.	80.	H	NONOUTAGE	E
	DLO-4794	M69	INTERNAL TO PP	MANUFACTURER	D	C	C	80.	0.	80.	H	NONOUTAGE	E
	DLO-4795	M69	INTERNAL TO PP	MANUFACTURER	D	C	C	25.	0.	25.	H	NONOUTAGE	E
	DLO-4796	M69	INTERNAL TO PP	MANUFACTURER	D	C	C	25.	0.	80.	H	NONOUTAGE	E
	HVAC-5340	M65	TANK	ASME VIII DIV1	0.5	0.5	C	425.		450.	+/-13.5	NONOUTAGE	E,6
	HVAC-5341	M65	TANK	ASME VIII DIV1	0.5	0.5	C	425.		450.	+/-13.5	NONOUTAGE	E,6
	HVAC-5342	M65	TANK	ASME VIII DIV1	0.5	0.5	C	425.		450.	+/-13.5	NONOUTAGE	E,6
	HVAC-5343	M65	TANK	ASME VIII DIV1	0.5	0.5	C	425.		450.	+/-13.5	NONOUTAGE	E,6
	PS-6501	M66	.75HR23 PIPE	B31.1	.5	0.5	C	125.	0.	150.	+/-4.5	NONOUTAGE	E
	PS-6503	M66	.75HR23 PIPE	B31.1	.5	0.5	C	125.	0.	150.	+/-4.5	NONOUTAGE	E

NOTES

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- D: VALVE SIZE UNKNOWN. VALVE IS INTERNAL PART OF PUMP.
- E: MAINTENANCE TEST PROCEDURE NOT DEVELOPED FOR THIS VALVE. SET PRESSURE BELOW OR EQUAL TO SYSTEM DESIGN PRESSURE.
- G: BACK PRESSURE VALUE UNAVAILABLE. VALVE DISCHARGES TO A COMMON DISCHARGE HEADER. HOWEVER, VALVE SET PRESSURE BELOW SYSTEM DESIGN PRESSURE.
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- J: ZERO BACK PRESSURE RELIEF VALVES HAVE BEEN VERIFIED BY FIELD WALKDOWN. NON ZERO BACK PRESSURE VALVES TO BE REVERIFIED BY NOVEMBER 1988.
- K: CODE TOLERANCE OBTAINED FROM FOLLOWING CODES: 1. ASME SECTION VIII 1968 EDITION FOR B31.7 CLASS 'I' AND III VALVES AND SECTION VIII VALVES.
 2. ASME III 1965 EDITION FOR ASME SECTION III VALVES.
- L: VALVE SET PRESSURE AND SYSTEM DESIGN PRESSURE UNKNOWN. VENDOR RESEARCHING INFORMATION.

UNIT	VALVE NUMBER	PR ID	LINE SIZE IN INCHES AND LINE NUMBER	ASME/API CODE & CLASS	VALVE SIZE		ACC	SET PRESS	BACK PRESS	SYS DESIGN PRESS	CODE TOLERANCE	MODE TO RESET	NOTES
					INLET INCHES	OUTLET INCHES							
	PS-6512	M63	.5-8B23-124	B31.1	.5	0.5	C	125.	0.	150.	+/-4.5	NONOUTAGE	E
	PS-6530	M66	.758B23 PIPE	B31.1	.5	0.5	C	125.	0.	150.	+/-4.5	NONOUTAGE	E
	PS-6533	M66	.758B23 PIPE	B31.1	.5	0.5	C	125.	0.	150.	+/-4.5	NONOUTAGE	E
	M6S-2188	M78	TANK	ASME III CL C	1.	1.	10	150.	0.	150.	+/-4.5	NONOUTAGE	E
	M6S-2189	M78	TANK	ASME III CL C	1.	1.	10	150.	0.	150.	+/-4.5	NONOUTAGE	E
	M6S-2190	M78	TANK	ASME III CL C	1.	1.	10	150.	0.	150.	+/-4.5	NONOUTAGE	E

NOTES

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- D: VALVE SIZE UNKNOWN. VALVE IS INTERNAL PART OF PUMP.
- E: MAINTENANCE TEST PROCEDURE NOT DEVELOPED FOR THIS VALVE. SET PRESSURE BELOW OR EQUAL TO SYSTEM DESIGN PRESSURE.
- S: BACK PRESSURE VALUE UNAVAILABLE. VALVE DISCHARGES TO A COMMON DISCHARGE HEADER. HOWEVER, VALVE SET PRESSURE BELOW SYSTEM DESIGN PRESSURE...
- M: VALVE IS NOT A "M" VALVE. VENDOR HAS NOT ESTABLISHED A TOLERANCE.
- J: ZERO BACK PRESSURE RELIEF VALVES HAVE BEEN VERIFIED BY FIELD WALKDOWN. NON ZERO BACK PRESSURE VALVES TO BE RE-PRIFIED BY NOVEMBER 1988.
- K: CODE TOLERANCE OBTAINED FROM FOLLOWING CODES: 1. ASME SECTION VIII 1968 EDITION FOR B31.7 CLASS II AND III VALVES AND SECTION VIII VALVES. 2. ASME III 1965 EDITION FOR ASME SECTION III VALVES.
- L: VALVE SET PRESSURE AND SYSTEM DESIGN PRESSURE UNKNOWN. VENDOR RESEARCHING INFORMATION.

VALVE NUMBER	PID	LINE SIZE IN INCHES AND LINE NUMBER	ANSI/ASME CODE & CLASS	VALVE SIZE		ACC	SET PRESS		SYS DESIGN PRESS	CODE TOLERANCE	MODE TO RESET	NOTES
				INLET INCHES	OUTLET INCHES		PSIG	PSI NOTE J				
2	51-4164	M462 2.5-RC23-2004	831.7 CLASS III	1.5	2	10	100	0	200	+/-2	NONOUTAGE	E

NOTES

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- E: MAINTENANCE TEST PROCEDURE NOT DEVELOPED FOR THIS VALVE. SET PRESSURE BELOW OR EQUAL TO SYSTEM DESIGN PRESSURE.
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- J: ZERO BACK PRESSURE RELIEF VALVES HAVE BEEN VERIFIED BY FIELD WALKDOWN. NUM ZERO BACK PRESSURE VALVES TO BE REVERIFIED BY MOVEMBER 1988.
- K: CODE TOLERANCE OBTAINED FROM FOLLOWING CODES: 1. ASME SECTION VIII 1958 EDITION FOR 831.7 CLASS II AND III VALVES AND SECTION VIII VALVES.
2. ASME III 1965 EDITION FOR ASME SECTION III VALVES.
- L: VALVE SET PRESSURE NOT SYSTEM DESIGN PRESSURE UNKNOWN. VENDOR RESEARCHING INFORMATION.