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 FACIL: 50-389 St. Lucie Plant, Unit 2, Florida Power & Light Co.
 AUTH. NAME: UHRIG, R. E. AUTHOR AFFILIATION: Florida Power & Light Co.
 RECIP. NAME: EISENHUT, D. G. RECIPIENT AFFILIATION: Division of Licensing

DOCKET # 05000389

SUBJECT: Forwards summary of operability verification of all valves listed in Tables 3.9-9 & 3.9-10 & active safety-related check valves, per 830318 commitment.

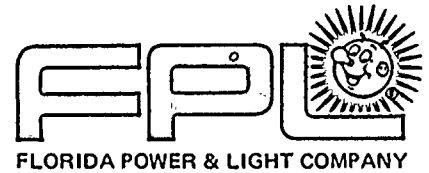
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	LIC BR #3 LA	1 0	NERSES, V. 01	1 1
INTERNAL:	ELD/HDS2	1 0	IE FILE	1 1
	IE/DEPER/EPB 36	3 3	IE/DEPER/IRB 35	1 1
	IE/DEQA/QAB 21	1 1	NRR/DE/AEAB	1 0
	NRR/DE/CEB 11	1 1	NRR/DE/EHEB	1 1
	NRR/DE/EQB 13	2 2	NRR/DE/GB 28	2 2
	NRR/DE/MEB 18	1 1	NRR/DE/MTEB 17	1 1
	NRR/DE/SAB 24	1 1	NRR/DE/SGEB 25	1 1
	NRR/DHFS/HFEB40	1 1	NRR/DHFS/LQB 32	1 1
	NRR/DHFS/PSRB	1 1	NRR/DL/SSPB	1 0
	NRR/DSI/AEB 26	1 1	NRR/DSI/ASB	1 1
	NRR/DSI/CPB 10	1 1	NRR/DSI/CSB 09	1 1
	NRR/DSI/ICSB 16	1 1	NRR/DSI/METB 12	1 1
	NRR/DSI/PSB 19	1 1	NRR/DSI/RAB 22	1 1
	NRR/DSI/RSB 23	1 1	<u>REG FILE</u> 04	1 1
	RG2	3 3	RM/DDAMI/MIB	1 0
EXTERNAL:	ACRS 41	6 6	BNL (AMDTs ONLY)	1 1
	DMB/DSS (AMDTs)	1 1	FEMA-REP DIV 39	1 1
	LPDR 03	1 1	NRC PDR 02	1 1
	NSIC 05	1 1	NTIS	1 1

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Year	Category	Value	Unit	Notes
1945	I	100	1000	
1946	X	200	2000	
1947	I	300	3000	
1948	I	400	4000	
1949	I	500	5000	
1950	I	600	6000	
1951	S	700	7000	
1952	I	800	8000	
1953	I	900	9000	
1954	I	1000	10000	
1955	I	1100	11000	
1956	I	1200	12000	
1957	I	1300	13000	
1958	I	1400	14000	
1959	I	1500	15000	
1960	I	1600	16000	
1961	I	1700	17000	
1962	I	1800	18000	
1963	I	1900	19000	
1964	I	2000	20000	
1965	I	2100	21000	
1966	I	2200	22000	
1967	I	2300	23000	
1968	I	2400	24000	
1969	I	2500	25000	
1970	I	2600	26000	
1971	I	2700	27000	
1972	I	2800	28000	
1973	I	2900	29000	
1974	I	3000	30000	
1975	I	3100	31000	
1976	I	3200	32000	
1977	I	3300	33000	
1978	I	3400	34000	
1979	I	3500	35000	
1980	I	3600	36000	
1981	I	3700	37000	
1982	I	3800	38000	
1983	I	3900	39000	
1984	I	4000	40000	
1985	I	4100	41000	
1986	I	4200	42000	
1987	I	4300	43000	
1988	I	4400	44000	
1989	I	4500	45000	
1990	I	4600	46000	
1991	I	4700	47000	
1992	I	4800	48000	
1993	I	4900	49000	
1994	I	5000	50000	
1995	I	5100	51000	
1996	I	5200	52000	
1997	I	5300	53000	
1998	I	5400	54000	
1999	I	5500	55000	
2000	I	5600	56000	
2001	I	5700	57000	
2002	I	5800	58000	
2003	I	5900	59000	
2004	I	6000	60000	
2005	I	6100	61000	
2006	I	6200	62000	
2007	I	6300	63000	
2008	I	6400	64000	
2009	I	6500	65000	
2010	I	6600	66000	
2011	I	6700	67000	
2012	I	6800	68000	
2013	I	6900	69000	
2014	I	7000	70000	
2015	I	7100	71000	
2016	I	7200	72000	
2017	I	7300	73000	
2018	I	7400	74000	
2019	I	7500	75000	
2020	I	7600	76000	
2021	I	7700	77000	
2022	I	7800	78000	
2023	I	7900	79000	
2024	I	8000	80000	
2025	I	8100	81000	



July 26, 1983
L-83-428

Office of Nuclear Reactor Regulation
Attention: Mr. Darrell G. Eisenhut, Director
Division of Licensing
U. S. Nuclear Regulatory Commission
Washington, D.C. 20555

Dear Mr. Eisenhut:

Re: St. Lucie Unit No. 2
Docket No. 50-389
Operability of Safety-Related Valves

In accordance with Florida Power & Light Company letter L-83-153, dated March 18, 1983, the operability of all valves in Tables 3.9-9 and 3.9-10 of the St. Lucie Unit 2 FSAR, and all active, safety-related check valves, has been verified, as indicated in the attached summary.

If you have any questions, please contact us.

Very truly yours,

Robert E. Uhrig
Vice President
Advanced Systems & Technology

REU/RJS/PPC/cab

Attachment

cc: J. P. O'Reilly, Region II
Harold F. Reis, Esquire

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Boo!
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1952

I. NSSS Active Valves

- HCV-3618 2-0410083 Step 12.23 under check valve leakage pressure.
- HCV-3628 2-0410083 Step 12.23 under check valve leakage pressure.
- HCV-3638 2-0410083 Step 12.23 under check valve leakage pressure.
- HCV-3648 2-0410083 Step 12.23 under check valve leakage pressure.
- V-3572 2-0010199 Step 12.12.4 with the RCS at normal operating pressure.
- V-3571 2-0010199 Step 12.12.3 with the RCS at normal operating pressure.
- V-3444 Backfit item will not be operational prior to initial criticality.
- V-3422 Backfit item will not be operational prior to initial criticality.
- V-3495 2-0440082 Step 12.12 with 1 HPSI, 1 LPSI and 1 C.S. pump running.
- V-3496 2-0440082 Step 12.2 with 1 HPSI, 1 LPSI and 1 C.S. pump running.
- V-3550 2-0410080 Step 12.38 1 HPSI pump running to open vessel.
- V-3551 2-0410080 Step 12.77 1 HPSI pump running to open vessel.
- V-3540 2-0410080 Step 12.40 1 HPSI pump running to open vessel.
- V-3523 2-0410080 Step 12.79 1 HPSI pump running to open vessel.
- HCV-3615: 2-0440081 Step 12.2.13 LPSI running at 3000 GPM to open vessel.
- HVC-3625: 2-0440081 Step 12.2.13 LPSI running at 3000 GPM to open vessel.

I. NSSS Active Valves (Continued)

HCV-3635 2-0440081 Step 12.3.12 LPSI running at 3000 GPM to open vessel.

HCV-3645 2-0440081 Step 12.3.12 LPSI running at 3000 GPM to open vessel.

HCV-3616 2-0410080 Step 12.53 HPSI at design to open vessel.

HCV-3626 2-0410080 Step 12.53 HPSI at design to open vessel.

HCV-3636 2-0410080 Step 12.53 HPSI at design to open vessel.

HCV-3646 2-0410080 Step 12.53 HPSI at design to open vessel.

HCV-3617 2-0410080 Step 12.14 HPSI at design to open vessel.

HCV-3627 2-0410080 Step 12.14 HPSI at design to open vessel.

HCV-3637 2-0410080 Step 12.14 HPSI at design to open vessel.

HCV-3647 2-0410080 Step 12.14 HPSI at design to open vessel.

V-3517 2-0440081 Step 12.2.18 LPSI at 3000 GPM to open vessel.

V-3658 2-0440081 Step 12.3.17 LPSI at 3000 GPM to open vessel.

FCV-3301 2-0440081 Step 12.3.15 LPSI at 3000 GPM to open vessel.

FCV-3306 2-0440081 Step 12.2.16 LPSI at 3000 GPM to open vessel.

HCV-3512 2-0440081 Step 12.3.16 and 12.3.18 LPSI at 3000 GPM to open vessel.

HCV-3657 2-0440081 Step 12.2.14 & 12.2.17 LPSI at 3000 GPM to open vessel.

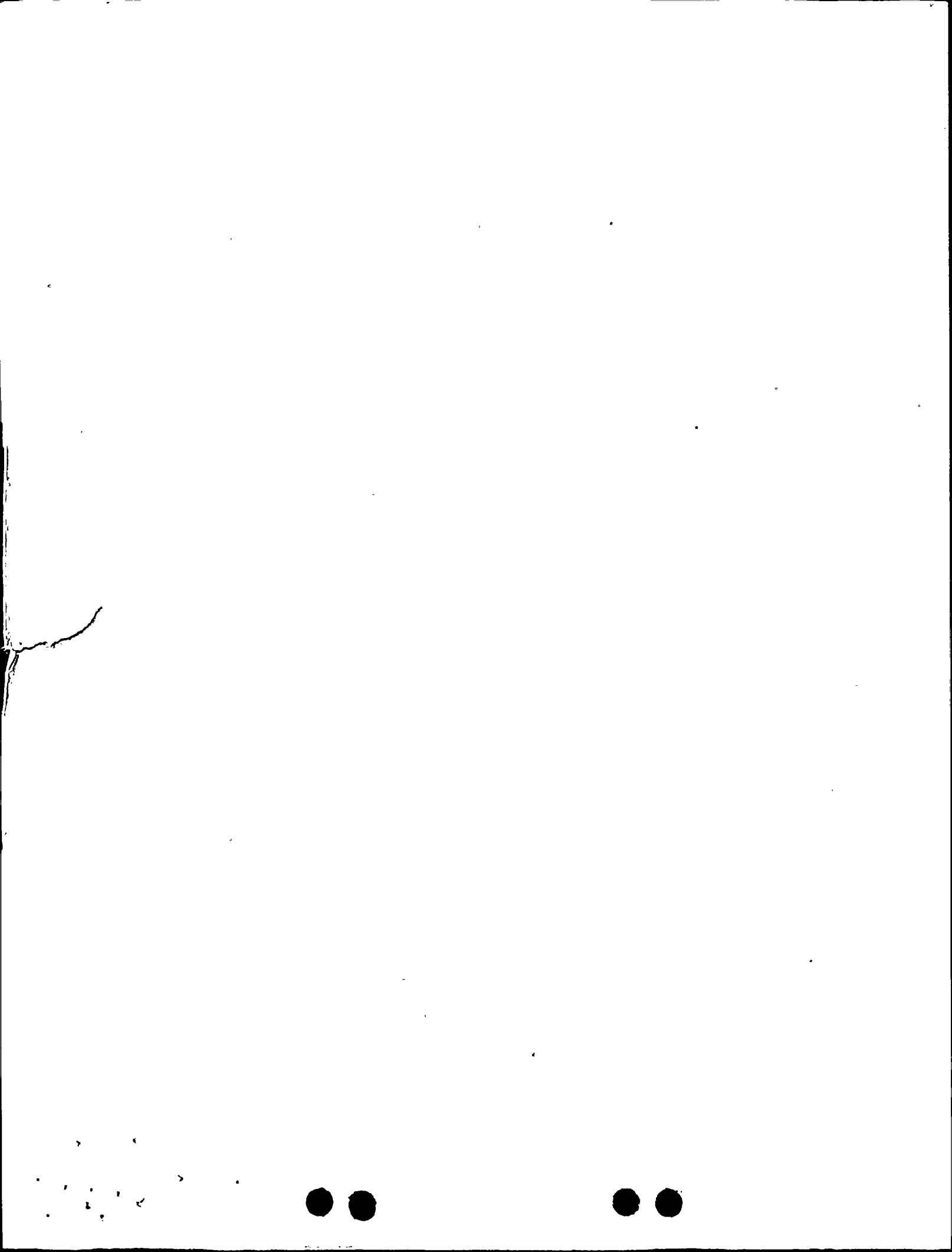
V-3456 2-0440081 Step 12.2.18 LPSI at 3000 GPM to open vessel.

V-3457 2-0440081 Step 12.3.17 LPSI at 3000 GPM to open vessel.

V-3611 2-0010199 Step 12.8 while filling SIT.

I. NSSS Active Valves (Continued)

- V-3621 2-0010199 Step 12.8 while filling SIT.
- V-3631 2-0010199 Step 12 8 while filling SIT.
- V-3641 2-0010199 Step 12.8 while filling SIT.
- V-3659 2-0410080 Step 12.11 1 HPSI pump running.
- V-3660 2-0410080 Step 12.50 1 HPSI pump running.
- V-3654 2-0410080 Step 12.51 1 HPSI pump on recirc.
- V-3656 2-0410081 Step 12.51 1 HPSI pump on recirc.
- V-3536 2-0440081 Step 12.2.21.1 Dev #8 LPSI on recirc.
- V-3539 2-0440081 Step 12.2.20.1 Dev. #8 LPSI on recirc.
- * V-3480 QI-11PR/PSL-3 stroked dry as part of electrical initial testing.
- * V-3481 QI-11PR/PSL-3 stroked dry as part of electrical initial testing.
- * V-3664 QI-11PR/PSL-3 stroked dry as part of electrical initial testing.
- * V-3652 QI-11PR/PSL-3 stroked dry as part of electrical initial testing.
- * V-3651 QI-11PR/PSL-3 stroked dry as part of electrical initial testing.
- * V-3665 QI-11PR/PSL-3 stroked dry as part of electrical initial testing.
- * V-3545 QI-11PR/PSL-3 stroked dry as part of electrical initial testing.
- V-3614 2-0410082 Step 12.4.6 SIT dump to open vessel.
- V-3624 2-0410082 Step 12.4.6 SIT dump to open vessel.
- V-3634 2-0410082 Step 12.4.6 SIT dump to open vessel.
- * See Section IV for Explanation



I. NSSS Active Valves (Continued)

V-3634 2-0410082 Step 12.4.6 SIT dump to open vessel.

V-3644 2-0410082 Step 12.4.5 SIT dump to open vessel.

V-3733 2-0010199 Step 12.9 with SIT at normal operating pressure.

V-3734 2-0010199 Step 12.9 with SIT at normal operating pressure.

V-3735 2-0010199 Step 12.9 with SIT at normal operating pressure.

V-3736 2-0010199 Step 12.9 with SIT at normal operating pressure.

V-3737 2-0010199 Step 12.9 with SIT at normal operating pressure.

V-3738 2-0010199 Step 12.9 with SIT at normal operating pressure.

V-3739 2-0010199 Step 12.9 with SIT at normal operating pressure.

V-3740 2-0010199 Step 12.9 with SIT at normal operating pressure.

V-2650 2-0250081 Dev. #12 pump lined up through full flow and mini flow paths.

V-2651 2-0250081 Dev. #12 pump lined up through full flow and mini flow.

V-2515 2-0010199 Step 12.11.2 with 40 GPM letdown flow.

V-2516 2-0010199 Step 12.11.3 with 40 GPM letdown flow.

V-2522 2-0010199 Step 12.11.4 with 40 GPM letdown flow.

V-2501 2-0250081 Step 12.3.1 with 3 charging pumps running.

V-2504 R. J. Sinatra Ltr. Bk. 4 of May 2, 1983 documents testing during initial boration.

V-2508 2-0250083 Step 12.3.1 with 3 charging pumps running.

I. NSSS Active Valves (Continued)

- V-2509 2-0400080 Appendix A item 33 under gravity head w/one charging pump running.
- * V-2525 QI-11PR/PSL-3 as initial electrical check out stroked with no flow.
- FCV-2210Y 2-0210081 Step 12.3.28A with BAM pump running to VCT batching.
- * V-2524 2-0400080 Appendix A item 34 with no flow.
- * V-2505 2-0400080 Appendix A item 105 with no flow.
- V-2514 2-0250083 Step 12.2.4 with BAM pump running in simulated emergency borate.
- V-2553 Automatic function with charging pump start and stop.
- V-2554 Automatic function with charging pump start and stop.
- V-2555 Automatic function with charging pump start and stop.
- V-5201 2-1710080 Step 12.6.3 stroked under sampling flow.
- V-5202 2-1710080 Step 12.7.3 stroked under sampling flow.
- V-5200 2-1710080 Step 12.4.2 and 12.4.3 stroked under sampling flow.
- V-5203 2-1710080 Step 12.4.5 and 12.4.6 stroked under sampling flow.
- V-5204 2-1710080 Step 12.6.4 stroked under sampling flow.
- V-5205 2-1710080 Step 12.7.4 stroked under sampling flow.
- V-6341 2-0540080 Steps 12.1.28 and 12.1.29 with both pumps running.
- V-6342 2-0540080 steps 12.1.31 and 12.1.32 with both pumps running.
- V-6718 2-0400080 Appendix A item 179 with atmosphere pressure in header.

* See Section IV for Explanation

I. NSSS Active Valves (Continued)

- V-6750 2-0400080 Appendix A item 169 with atmospheric pressure in header.
- V-6741 2-0010199 Step 12.3 while pressurizing SIT's with N₂.
- V-1460 2-0120086 Step 12.1.20 nitrogen pressurized at 2250 PSIA.
- V-1461 2-0120086 Step 12.1.24 nitrogen pressuring header to 2250.
- V-1462 2-0120086 Step 12.1.12 nitrogen pressurizing header to 2250.
- V-1463 2-0120086 Step 12.1.8 nitrogen pressurizing header to 2250.
- V-1464 2-0120086 Step 12.1.26 nitrogen pressurizing header to 2250.
- V-1465 2-0120086 Step 12.1.10 nitrogen pressurizing header to zero.
- V-1466 2-0120086 Step 12.1.14 nitrogen pressurizing header to 2250.
- V-1474 2-0120096 Step 12.5.9 and 12.5.10 pressurizer pressure at 2250 PSIA.
- V-1475 2-0120096 Step 12.5.18 pressurizer pressure at 2250 PSIA.
- V-1476 2-0120088 Step 12.5 with pressure in RCS at 2250 PSIA.
- V-1477 2-0120088 Step 12.7 with RCS pressure at 2250 PSIA.

II. Type B and C Active Valves

- HCV-08-1A 2-0810082 Step 12.1.25 stroked at 900 PSIG.
- HCV-08-1B 2-0810082 Step 12.2.25 stroked at 900 PSIG.
- * HCV-09-1A 2-0400080 Appendix A item 217 at no flow.
- * HCV-09-1B 2-0400080 Appendix A item 215 at no flow.
- * HCV-09-2A 2-0400080 Appendix A item 218 at no flow.
- * HCV-09-2B 2-0400080 Appendix A item 216 at no flow.
- HCV-14-6 2-0310080 Step 12.5.13 at operating flow.
- HCV-14-7 2-0310080 Step 12.5.13 at operating flow.
- HCV-14-3A 2-0400080 Appendix A item 48 at normal flow.
- HCV-14-3B 2-0400080 Appendix A item 49 at normal flow.
- HCV-14-8A 2-0310080 Step 12.15.2 at operating flow.
- HCV-14-8B 2-0310080 Step 12.15.2 at operating flow.
- HCV-14-17 2-0310080 Step 12.8.14 at operating flow.
- HCV-14-18 2-0310080 Step 12.8.14 at operating flow.
- HCV-14-9 2-0310080 Step 12.15.2 at operating flow.
- HCV-14-10 2-0310080 Step 12.15.2 at operating flow.
- HCV-14-1 2-0310080 Step 12.5.13 at operating flow.
- HCV-14-2 2-0310080 Step 12.5.13 at operating flow.
- MV-21-2 2-0400080 Appendix A item 54 at operating flow.
- MV-21-3 2-0400080 Appendix A item 53 at operating flow.
- MV-21-4A 2-0400080 Appendix A item 55 at operating flow.
- MV-21-4B 2-0400080 Appendix A item 56 at operating flow.
- * MV-07-1A 2-0400080 Step 12.5 with no flow.
- * See Section IV for Explanation

- II. Type B and C Active Valves (Continued)
- * MV-07-1B 2-0400080 Step 12.5 with no flow.
 - * FCV-07-1A 2-0400080 Appendix A item 128 with no flow.
 - * FCV-07-1B 2-0400080 Appendix A Item 129 with no flow.
 - * MV-07-2A 2-0400080 Step 12.5 with no flow.
 - * MV-07-2B 2-0400080 Step 12.5 with no flow.
 - LCV-07-11A 2-0010188 Step 12.4.4 closed simultaneously with pump trip.
 - LCV-07-11B 2-0010188 Step 12.4.6 closed simultaneously with pump trip.
 - SE-07-3A 2-0400080 Appendix A item 132 with operating flow.
 - SE-07-3A 2-0400080 Appendix A item 133 with operating flow.
 - FCV-25-1 2-0400080 Appendix A item 160 under design mode.
 - FCV-25-2 2-0400080 Appendix A item 161 under design mode.
 - FCV-25-3 2-0400080 Appendix A item 162 under design mode.
 - FCV-25-4 2-0400080 Appendix A item 163 under design mode.
 - FCV-25-5 2-0400080 Appendix A item 164 under design mode.
 - FCV-25-6 2-0400080 Appendix A item 165 under design mode.
 - FCV-25-20 2-2000084 Step 12.5.3 with fan operating.
 - FCV-25-21 2-2000084 Step 12.5.3 with fan operating.
 - FCV-25-26 2-2000084 Step 12.5.3 with fan operating.
 - FCV-25-30 2-0400080 Appendix A item 187 under design mode.
 - FCV-25-31 2-0400080 Appendix A item 188 under design mode.
 - FCV-25-32 2-0400080 Appendix A item 186 under design mode.
 - FCV-25-33 2-0400080 Appendix A item 193 under design mode.
- * See Section IV for Explanation

II. Type B and C Active Valves

FCV-25-14 2-1900081 Dev. #5 Step 12.7.1 under normal operating mode.

FCV-25-15 2-1900081 Dev. #5 Step 12.7.1 under normal operating mode.

FCV-25-16 2-1900081 Dev. #5 Step 12.7.1 under normal operating mode.

FCV-25-17 2-1900081 Dev. #5 Step 12.7.1 under normal operating mode.

FCV-25-18 2-1900081 Dev. #5 Step 12.7.1 under normal operating mode.

FCV-25-19 2-1900081 Dev. #5 Step 12.7.1 under normal operating mode.

FCV-25-24 2-1900081 Dev. #5 Step 12.7.1 under normal operating mode.

FCV-25-25 2-1900081 Dev. #5 Step 12.7.1 under normal operating mode.

FCV-26-1 2-0400080 Appendix A item 174 under normal containment pressure.

FCV-26-2 2-0400080 Appendix A item 172 under normal containment pressure.

FCV-26-3 2-0400080 Appendix A item 171 under normal containment pressure.

FCV-26-4 2-0400080 Appendix A item 176 under normal containment pressure.

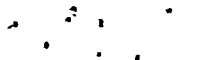
FCV-26-5 2-0400080 Appendix A item 175 under normal containment pressure.

FCV-26-6 2-0400080 Appendix A item 173 under normal containment pressure.

FCV-23-3 2-0830080 Step 12.5.1 under operating flow.

FCV-23-5 2-0830080 Step 12.5.1 under operating flow.

FCV-23-7 2-0830080 Step 12.5.1 under operating flow.



II. Type B and C Active Valves (Continued)

FCV-23-9 2-0830080 Step 12.5.1 under operating flow.

HCV-18-1 2-0400080 Appendix A item #157 under operating flow and pressure.

HCV-15-1 2-1560080 Step 12.5 under normal conditions.

SE-03-1A 2-0010199 Step 12.10 with SIT at normal pressure and 2V3661 open.

SE-03-1B 2-0010199 Step 12.10 with SIT at normal pressure and 2V3661 open.

SE-03-1C 2-0010199 Step 12.10 with SIT at normal pressure and 2V3661 open.

SE-03-1D 2-0010199 Step 12.10 with SIT at normal pressure and 2V3661 open.

SE-05-1A 2-1710080 Step 12.15.5 stroked under sampling flow.

SE-05-1B 2-1710080 Step 12.15.13 stroked under sampling flow.

SE-05-1C 2-1710080 Step 12.15.19 stroked under sampling flow.

SE-05-1D 2-1710080 Step 12.15.25 stroked under sampling flow.

SE-05-1E 2-1710080 Step 12.15.6 stroked under sampling flow.

SE-03-2A R. J. Sinatra Ltr. Bk. 4 of May 2, 1983 documenting verification during Hot Ops I.

SE-03-2B R. J. Sinatra Ltr. Bk. 4 of May 2, 1983 documenting verification during Hot Ops I.

FCV-25-7 2-200080 Step 12.3.1A by simulating vacuum by placing pressure on opposite side.

FCV-25-8 2-200080 Step 12.3.1A by simulating vacuum by placing pressure on opposite side.

SE-02-03 2-0120096 Step 12.72 and 12.76 with charging inservice CS at 415.

SE-02-04 2-0120096 Step 12.7.7 with charging in service RCS at 415.

II. Type B and C Active Valves (Continued)

MV-08-12 2-0700095 Step 12.15.3 and 12.18 at 900 PSIG zero flow.

MV-08-13 2-0700095 Step 12.19.2 at 900 PSIG zero flow.

MV-08-3 2-0700094 Step 12.3.15 and 12.3.16 with Aux. Steam from Unit 1.

MV-08-18A 2-080083 Step 12.1 at 900 PSIG zero flow.

MV-08-18B 2-0810083 Step 12.2 at 900 PSIG zero flow.

MV-08-19A 2-0810083 Step 12.1 at 900 PSIG zero flow.

MV-08-19B 2-0810083 Step 12.2 at 900 PSIG zero flow.

MV-08-14 2-0010199 Step 12.16 with steam dumping to atmosphere at normal pressure.

MV-08-15 2-0010199 Step 12.16 with steam dumping to atmosphere at normal pressure.

MV-08-16 2-0010199 Step 12.16 with steam dumping to atmosphere.

MV-08-17 2-0010199 Step 12.16 with steam dumping to atmosphere.

MV-09-9 2-0700081 Step 12.13 and 12.23 with aux. feed pump running.

MV-09-10 2-0700081 Step 12.27 and 12.29 with aux. feed pump running.

MV-09-11 2-0700081 Step 12.71 and 12.77 with aux. feed pump running.

MV-09-12 2-0700081 Step 12.71 and 12.77 with aux. feed pump running.

MV-09-13 2-0700081 Step 12.20 and 12.56 with aux. feed at 75 GPM.

MV-09-14 2-0700081 Step 12.21 and 12.30 with aux. feed at 75 GPM.

II. Type B and C Active Valves (Continued)

- SE-09-2 2-0010199 Step 12.6 when filling steam generator with 2A or 2B aux. feed pump.
- SE-09-3 2-0010199 Step 12.6 when filling steam generator with 2A or 2B aux. feed pump.
- SE-09-4 2-0010199 Step 12.7 when filling steam generator with 2C aux. feed pump.
- SE-09-5 2-0010199 Step 12.7 when filling steam generator with 2C aux. feed pump.
- * MV-14-1 QI11PSL/PR5 as part of initial electrical check stroked dry, no flow.
- * MV-14-2 QI11PSL/PR5 as part of initial electrical check stroked dry, no flow.
- * MV-14-3 QI11PSL/PR5 as part of initial electrical check stroked dry, no flow.
- * MV-14-4 QI11PSL/PR5 as part of initial electrical check stroked dry, no flow.
- MV-14-9 2-0010199 test summary with normal flow through fan cooler.
- MV-14-10 2-0310081 Step 12.7.10 with 1200 GPM through header.
- MV-14-11 2-0010199 test summary with normal flow through fan cooler.
- MV-14-12 2-0310080 Step 12.7.10 with 1200 GPM through header.
- MV-14-13 2-0010199 test summary with normal flow thorough fan cooler.
- MV-14-14 2-0310080 Step 12.7.10 with 1200 GPM through header.
- MV-14-15 2-0010199 test summary with normal flow through fan cooler.
- MV-14-16 2-0310080 Step 12.7.10 with 1200 GPM through header.
- MV-14-19 2-0310080 Step 12.8.14 with 3760 GPM through header.
- * See Section IV for Explanation

II. Type B and C Active Valves (Continued)

- MV-14-20 2-0310080 Step 12.8.12 with 3760 GPM through header.
- MV-07-3 Will be installed as a backfit item.
- MV-07-4 Will be installed as a backfit item.
- SE-07-5A 2-0010080 part 1 stroke times under normal containment atmosphere for baseline data.
- SE-07-5B 2-0010080 part 1 stroke time under normal containment atmosphere for baseline data.
- SE-07-5C 2-0010080 part 1 stroke time under normal containment atmosphere for baseline data.
- SE-07-5D 2-0010080 part 1 stroke time under normal containment atmosphere for baseline data.
- SE-07-5E 2-0010080 part 1 stroke time under normal containment atmosphere for baseline data.
- FCV-25-7 2-2000080 Step 12.2.1A under a simulated containment vacuum.
- FCV-25-8 2-2000080 Step 12.3.1A under a simulated containment vacuum.
- SE-17-1A 2-2200086 Step 12.3.9 in normal operating conditions.
- SE-17-1B 2-2200086 Step 12.3.32 in normal operating conditions.
- SE-17-2A 2-2200086 Step 12.3.15 in normal operating conditions.
- SE-7-2B 2-2200086 Step 12.3.39 in normal operating conditions.
- * HCV-25-5 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-6 2-0010080 part 1 stroke times taken dry for baseline data.
- * See Section IV for Explanation



II. Type B and C Active Valves (Continued)

- * HCV-25-7 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-5A 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-6A 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-7A 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-1 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-2 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-3 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-4 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-1A 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-2A 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-3A 2-0010080 part 1 stroke times taken dry for baseline data.
- * HCV-25-4A 2-0010080 part 1 stroke times taken dry for baseline data.
- FCV-25-29 2-2000089 test summary 4-15-83 stroked valve with 7B running.
- FCV-25-34 2-2000089 test summary 4-15-83 stroked valve with 7B running.
- FCV-25-11 2-2000082 Step 12.2.1.7 and 12.2.1.8 with fan running.
- * See Section IV for Explanation

II. Type B and C Active Valves (Continued)

FCV-25-12 2-2000082 Step 12.2.1.7 and 12.1.1.8 with fan running.

FCV-25-13 2-2000089 test summary 4-15-83 stroked valve with 6A running.

FSE-27-8 2-0010080 part 1 at normal containment pressure for baseline data.

FSE-27-9 2-0010080 part 1 at normal containment pressure for baseline data.

FSE-27-10 2-0010080 part 1 at normal containment pressure for baseline data.

FSE-27-11 2-0010080 part 1 at normal containment pressure for baseline data.

FSE-27-12 2-0010080 part 1 at normal containment pressure for baseline data.

FSE-27-13 2-0010080 part 1 at normal containment pressure for baseline data.

FSE-27-14 2-0010080 part 1 at normal containment pressure for baseline data.

FSE-27-15 2-0010080 part 1 at normal containment pressure for baseline data.

FSE-27-16 2-0010080 part 1 at normal containment pressure for baseline data.

FSE-27-17 2-0010080 part 1 at normal containment pressure for baseline data.

FSE-27-18 2-0010080 part 1 at normal containment pressure for baseline data.

SE-02-01 2-0120096 Step 12.7.2 and 12.7.6 with charging in service RCS at 415 PSIA.

SE-02-02 2-0120096 Step 12.7.2 and 12.7.6 with charging in service RCS at 415 PSIA.

III. Active Check Valves

- V-3114 Opens, 2-0440081 Step 12.2.7 2A LPSI on SD cooling, closes, 2-1300082 test 2 penetration 36 LLRT.
- V-3124 Opens, 2-0440081 Step 12.2.7 2A LPSI on SD cooling, closes, 2-1300082 test 2 penetration 37 LLRT.
- V-3134 Opens, 2-0440081 Step 12.3.5 2B LPSI in SD cooling, closes, 2-1300082 test 2 penetration 38 LLRT.
- V-3144 Opens, 2-0440081 Step 12.3.5 2B LPSI in SD cooling, closes, 2-1300082 test 2 penetration 39 LLRT.
- V-3113 Opens, 2-0410080 Step 12.10, 30 GPM through HCV 3617, closes, 2-1300082 test 2 penetration 36 LLRT.
- V-3123 Opens, 2-0410080 Step 12.15, 2A HPSI at 600 GPM closes, 2-1300082 test 2 penetration 37 LLRT.
- V-3133 Opens, 2-0410080 Step 12.15, 2A HPSI at 600 GOM closes, 2-1300082 test 2 penetration 38 LLRT.
- V-3143 Opens, 2-0410080 Step 12.15, 2A HPSI at 600 GOM closes, 2-1300082 test 2 penetration 39 LLRT.
- V-3524 Opens, 2-0410080 Step 12.41, 2AHPSI in hot leg injection.
- V-3525 Opens, 2-0410080 Step 12.41 2A HPSI in hot leg injection.
- V3526 Opens, 2-0410080 Step 12.77 2B HPSI in hot leg injection.
- V-3527 Opens, 2-0410080 Step 12.77 2B HPSI in hot leg injection.
- V-3215 Opens, 2-0410083 Step 12.2.4 at 2250 PSIA, closes 2-0010181 Step 12.1.11.2 with 2V-3614 opened at 500 PSIA.
- V-3225 Opens, 2-0410083 Step 12.2.4 during tank dump, closes 2-0010181 Step 12.1.11.2 with 2V-3624 opened at 500 PSIA.
- V-3235 Opens, 2-0410083 Step 12.2.4 during tank dump, closes 2-0010181 Step 12.1.11.2 with 2V-3634 opened at 500 PSIA.



III. Active Check Valves (Continued).

- V-3245 Opens, 2-0410083 Step 12.2.4 during tank dump, closes 2-0010181 Step 12.1.1i.2 with 2V-3644 opened at 500 PSIA.
- V-3217 Opens, 2-0440081 Step 12.2.7, 2A LPSI in SD cooling, closes 2-0410083 Step 12.2.13 at 2250 PSIA.
- V-3227 Opens, 2-0410081 Step 12.2.7, 2A LPSI in SD cooling, closes 2-0440083 Step 12.3.13 at 2250 PSIA.
- V-3237 Opens, 2-0440081 Step 12.3.5 2B LPSI in SD cooling, closes, 2-0410083 Step 12.3.13 at 2250 PSIA in RCS.
- V-3247 Opens, 2-0440081 Step 12.3.5 2B LPSI in SD cooling, closes, 2-0410083 Step 12.3.13 at 2250 PSIA in RCS.
- V-3259 Opens, 2-0440081 Step 12.3.5, 2A LPSI in SD cooling, closes. 2-0410083 Step 12.3.13 at 2250 PSIA in RCS.
- V-3258 Opens, 2-0440081 Step 12.3.5 2A LPSI in SD cooling, closes, 2-0410083 Step 12.3.13 at 2250 in RCS.
- V-3260 Open, 2-0440081 Step 12.3.5, 2B LPSI in SD cooling, closes, 2-0410083 Step 12.3.13 at 2250 PSIA.
- V-3261 Open, 2-0440081 Step 12.3.5 2B LPSI in SD cooling, closes, 2-0410083 Step 12.3.13 at 2250 PSIA.
- V-3401 Opens, 2-0410080 Step 12.8, 2A HPSI running on recirc.
- V-3410 Opens, 2 -0410080 Step 12.47, 2B HPSI running on recirc.
- V-3106 Opens, 2-0440081 Step 12.2.7 2A LPSI in SD cooling.
- V-3107 Opens, 2-0440081 Step 12.3.5, 2B LPSI in SD cooling.
- V-3427 Opens, 2-0410080 Step 12.10, 2A HPSI running with 30 GPM through HCV-3617.
- V-3414 Opens, 2-0410080 Step 12.47, 2B HPSI running on recirc.
- V-3547 Opens, 2-0410080 Step 12.41, 2A HPSI in hot leg injection.
- V-3522 Opens, 2-0410080 Step 12.77 2B HPSI in hot leg injection.



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III. Active Check Valves (Continued)

- V-3104 Opens, 2-0440081 Step 12.2.7 2A LPSI in SD cooling and recircing to RWT.
- V-3105 Opens, 2-0440081 Step 12.3.5 2B LPSI in SD cooling and recircing to RWT.
- V-3102 Opens, 2-0410080 Step 12.8, 2A HPSI pump running on recirc.
- V-3103 Opens, 2-0410080 Step 12.47, 2B HPSI on recirc.
- V-29440 Closes, 2-1300082 penetration 14 test 2 Step 12.2.3.
- V-2118 Closes, R. J. Sinatra, Ltr. Bk. 4 of May 2, 1983 during initial plant boration tested.
- V-2431 Opens, 2-0120096 Step 12.7.3 flow to pressurizer, closes. 2-0010199 Step 12.13 by monitoring for pressure rise.
- V-2432 Opens 2-0210081 Step 12.1.2 at 40 GMP into loop, closes, 2-0010199 Step 12.14 by monitoring for pressure rise.
- V-2433 Opens 2-0210081 Step 12.1.2. at 40 GMP into loop, closes 2-0010199 Step 12.15 by monitoring for pressure rise.
- V-2462 Opens 2-0210081 Step 12.1.2 at 40 GPM into loop, closes 2-1300082 test 2 penetration 27 LLRT.
- V-2167 Opens 2-0210080 Step 12.9.0 with charging pump running.
- V-2168 Opens 2-0210080 Step 12.8.10 with charging pump running.
- V-2169 Opens 2-0210080 Step 12.7.10 with charging pump running.
- V-2190 Opens 2-0250083 Step 12.3.2 supplying 132 GPM to charging pumps.
- V-2443 Opens 2-0210081 Step 12.3.7 with flow from 2B pump through FCV 2210Y.
- V-2444 Opens 2-2050083 Step 12.5.7 with flow from 2A pump through FCV 2210Y.
- V-2177 Opens 2-0250083 Step 12.2.7 supplying 132 GPM to charging pumps.



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III. Active Check Valves (Continued)

- V-2191 Opens R. J. Sinatra, Ltr. Bk. 4 during initial boration from RWT, closes 2-0010199 Step 12.4 by monitoring pressure rise.
- V-2308 Closes 2-0010199 Step 12.5 by monitoring chemical addition tank for level increase.
- V-8163 Opens 2-0700095 Step 12.15.3, 2C Aux. Feed supplied main steam from both headers.
- V-8130 Opens 2-0700095 Step 12.15.3, 2C Aux. Feed supplied main steam from both headers.
- V-9252 Opens 2-0700081 Step 12.15 2A Aux. Feed to 2A SG at 350 GPM.
- V-9294 Opens 2-0700081 Step 12.25 2A Aux. Feed to 2B SG at 350 GPM.
- V-9107 Opens 2-0700081 Step 12.15 2A Aux. Feed to 2A SG at 350 GPM.
- V-9123 Opens 2-0700081 Step 12.43 2B Aux. Feed to 2B SG at 350 GPM.
- V-9139 Opens 2-0700081 Step 12.72 2C Aux. Feed to both SG at 570 GPM.
- V-9151 Opens 2-0700081 Step 12.72 2C Aux. Feed to both SG at 570 GPM.
- V-9157 Opens 2-0700081 Step 12.72 2C Aux. Feed to both SG at 570 GPM.
- V-9119 Opens 2-0700081 Step 12.15 2A Aux. Feed to 2A1 SG at 350 GPM.
- V-9135 Opens 2-0700081 Step 12.25 2A Aux. Feed to 2B1 SG at 350 GPM.
- V-14143 Opens 2-0310081 Step 12.18, 2A CCW pump running with discharge open.
- V-14147 Opens 2-0310081 Step 12.18, 2B CCW pump running with discharge open.
- V-14151 Opens 2-0310081 Step 12.18, 2C CCW pump running with discharge open.
- V-21162 Opens 2-0640080 Step 12.1.11, 2A ICW pump running through CCW Hx.

III. Active Check Valves (Continued)

- V-21208 Opens, 2-0640080 Step 12.1.14, 2B ICW pump running through CCW Hx.
- V-21205 Opens, 2-0640080 Step 12.7.1, 2C ICW pump running through CCW Hx.
- V-21523 Opens, 2-0640080 Step 12.5.6 verified lube water flow to ICW pump.
- V-21524 Opens, 2-0640080 Step 12.5.6 verified lube water flow to ICW pump.
- V-7143 Opens, 2-0420080 Step 12.6, 2A CS discharging to vessel through shutdown cooling HX.
- V-7129 Opens, 2-0420080 Step 12.6 2B CS on discharging to vessel through shutdown cooling HX.
- V-7192 Opens, 2-0420080 Step 12.10.6 blowing 85 PSIG air through ring header.
- V-7193 Opens, 2-0420080 Step 12.10.6 blowing 85 PSIG air through ring header.
- * V-07119 Opens, 2-0420080 Step 12.5 2B CS on recirc, closes, cannot be verified to close without flooding containment.
- * V-07120 Opens, 2-0420080 Step 12.5 2A CS pump on recirc, closes, cannot be verified closed without flooding containment.
- V-7172 Opens, 2-0420080 Step 12.5 2B CS on recirc. letter closes, LAR letter book 3 to E. Dotson on March 9, 1983.
- V-7174 Opens, 2-0420080 Step 12.5 2B CS on recirc. closes, letter LAR letter book 3 to E. Dotson on March 9, 1983.
- V-7141 Opens, 2-0420080 Step 12.5, 2A CS on recirc. to RWT.
- V-7133 Opens, 2-0420080 Step 12.5, 2B Cs on recirc. to RWT.
- V-7256 Opens, 2-040080 Appendix A with hydrozine pump running into CS header.



III. Active Check Valves (Continued)

- V-7258 Opens 2-0420080 Appendix A with hydrozine pump running into CS header.
- V-7000 Opens, 2-0440081 Step 12.1.2 gravity flow from RWT, closes, 2-0010199 Step 12.1 monitoring pressure rise.
- V-7001 Closes, 2-0440081 Step 12.1.2, gravity flow from RWT, closes 2-0010199 Step 12.1 monitoring pressure rise.



IV. For Reasons Listed Below the Below Identified Valves Were Stroked Dry or Not Checked.

1. Operation would result in loss of suction to an ESF pump - MV-07-1A, MV-07-1B, V-3480, V-3481, V-3664, V-3652, V-365i, V-3665 and V-3645.
2. Operation under flow would require flooding of containment sump - MV-07-2A, MV-07-2B, 2V-07119 and 2V-07120.
3. Operation under flow would spray down the containment - FCV-07-1A and FCV-07-1B.
4. The potential for loss of suction to CCW pump would result from operation deeming unnecessary since valve positions are not altered under flow for any design based accident - MV-14-1, MV-14-2, MV-14-3 and MV-14-4.
5. Flow through valves is due to gravity and would not amount to a significant DP - HCV-25-1 to HCV-25-7 and HCV-25-1A to HCV-25-7A.
6. Operation would isolate RCP bleed off flow - MV-2524 and MV-2505.
7. Operation would result in undue transient on secondary plant - HCV-09-1A, HCV-09-1B, HCV-09-2A and HCV-09-2B.
8. Operation would result in excessive boration or dilution of plant during fuel loading - MV-2525.

