

NMP2-IST-001

NIAGARA MOHAWK POWER CORPORATION  
NINE MILE POINT NUCLEAR STATION UNIT 2

PUMP AND VALVE FIRST TEN-YEAR  
INSERVICE TESTING PROGRAM PLAN

Approved By:

  
Manager - Nuclear Technology

10/25/93

Summary of Pages  
Revision 04 (Effective 10/25/93)

Major Rewrite  
Approved Change Request

PUMP AND VALVE  
(IWP, IWV)



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 SYSTEM: CONTAINMENT ATMOSPHERE MONITORING

NMP2-IST-001  
 Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CMS*EFV10	2	82A I-2	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2CMS*EFV1A	2	82A I-2	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2CMS*EFV1B	2	82A E-2	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2CMS*EFV3A	2	82A J-9	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2CMS*EFV3B	2	82A D-9	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



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NMP2-IST-001  
 Rev. 4

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						NRM	SAF	FAL				
2CMS*EFV5A	2	82B I-3	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2CMS*EFV5B	2	82B C-3	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2CMS*EFV6	2	82B I-2	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2CMS*EFV8A	2	82B I-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2CMS*EFV8B	2	82B C-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



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NMP2-IST-001  
 Rev. 4

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						NRM	SAF	FAL				
2CMS*EFV9A	2	82B I-9	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2CMS*EFV9B	2	82B C-9	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2CMS*SOV23A	2	82A G-6	B	0.75 SOV	SOA	OC	O	C	FE-Q ST-Q(O) FS-Q PI-T	GVRR-3	FE-Q ST-Q(O) FS-Q PI-T	
2CMS*SOV23B	2	82A F-6	B	0.75 SOV	SOA	OC	O	C	FE-Q ST-Q(O) FS-Q PI-T	GVRR-3	FE-Q ST-Q(O) FS-Q PI-T	
2CMS*SOV23C	2	82A G-5	B	0.75 SOV	SOA	OC	O	C	FE-Q ST-Q(O) FS-Q PI-T	GVRR-3	FE-Q ST-Q(O) FS-Q PI-T	





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						NRM	SAF	FAL				
2CMS*SOV23D	2	82A F-5	B	0.75 SOV	SOA	OC	O	C	FE-Q ST-Q(O) FS-Q PI-T	GVRR-3	FE-Q ST-Q(O) FS-Q PI-T	
2CMS*SOV23E	2	82A G-4	B	0.75 SOV	SOA	OC	O	C	FE-Q ST-Q(O) FS-Q PI-T	GVRR-3	FE-Q ST-Q(O) FS-Q PI-T	
2CMS*SOV23F	2	82A F-5	B	0.75 SOV	SOA	OC	O	C	FE-Q ST-Q(O) FS-Q PI-T	GVRR-3	FE-Q ST-Q(O) FS-Q PI-T	
2CMS*SOV24A	2	82A H-5	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV24B	2	82A F-5	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	



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						NRM	SAF	FAL				
2CMS*SOV24C	2	82A I-5	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV24D	2	82A D-5	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV26A	2	82B H-5	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV26B	2	82B D-5	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV26C	2	82B J-5	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	



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						NRM	SAF	FAL				
2CMS*SOV26D	2	82B B-5	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV32A	2	82A J-8	A	0.75 GLV	SOA	OC	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV32B	2	82A E-8	A	0.75 GLV	SOA	OC	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV33A	2	82A H-8	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV33B	2	82A F-8	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	



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 Rev. 4

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						NRM	SAF	FAL				
2CMS*SOV34A	2	82B H-8	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV34B	2	82B E-8	A	0.75 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV35A	2	82B J-8	A	0.75 GLV	SOA	OC	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV35B	2	82B C-8	A	0.75 GLV	SOA	OC	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2CMS*SOV60A	2	82A I-3	A	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	





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						NRM	SAF	FAL				
2CMS*SOV60B	2	82A D-3	A	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CMS*SOV61A	2	82A H-3	A	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CMS*SOV61B	2	82A F-3	A	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CMS*SOV62A	2	82A I-7	A	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CMS*SOV62B	2	82A E-7	A	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	



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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CMS*SOV63A	2	82A H-7	A	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CMS*SOV63B	2	82A F-7	A	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CMS*SOV64A	2	82A L-5	B	0.75 SOV	SOA	O	O	-	FE-Q ST-Q(O) PI-T	GVRR-3	FE-Q ST-Q(O) PI-T	
2CMS*SOV64B	2	82A B-5	B	0.75 SOV	SOA	O	O	-	FE-Q ST-Q(O) PI-T	GVRR-3	FE-Q ST-Q(O) PI-T	
2CMS*SOV65A	2	82A L-8	B	0.75 SOV	SOA	O	O	-	FE-Q ST-Q(O) PI-T	GVRR-3	FE-Q ST-Q(O) PI-T	



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NMP2-IST-001  
 Rev. 4

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						NRM	SAF	FAL				
2CMS*SOV65B	2	82A B-8	B	0.75 SOV	SOA	0	0	-	FE-Q ST-Q(O) PI-T	GVRR-3	FE-Q ST-Q(O) PI-T	
2CMS*SOV74A	2	82A K-4	A	0.75 GLV	SOA	C	C	C	PI-T LJ-R	GVRR-1	PI-T LJ-R	SEE NOTE 1
2CMS*SOV74B	2	82A C-4	A	0.75 GLV	SOA	C	C	C	PI-T LJ-R	GVRR-1	PI-T LJ-R	SEE NOTE 1
2CMS*SOV75A	2	82A K-9	A	0.75 GLV	SOA	C	C	C	PI-T LJ-R	GVRR-1	PI-T LJ-R	SEE NOTE 1
2CMS*SOV75B	2	82A C-9	A	0.75 GLV	SOA	C	C	C	PI-T LJ-R	GVRR-1	PI-T LJ-R	SEE NOTE 1



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NMP2-IST-001  
 Rev. 4

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						NRM	SAF	FAL				
2CMS*SOV76A	2	82A L-4	A	0.75 GLV	SOA	C	OC	-	LJ-R	GVRR-1	LJ-R	SEE NOTE 1
2CMS*SOV76B	2	82A B-4	A	0.75 GLV	SOA	C	OC	-	LJ-R	GVRR-1	LJ-R	SEE NOTE 1
2CMS*SOV77A	2	82A L-2	A	0.75 GLV	SOA	C	OC	-	LJ-R	GVRR-1	LJ-R	SEE NOTE 1
2CMS*SOV77B	2	82A B-9	A	0.75 GLV	SOA	C	OC	-	LJ-R	GVRR-1	LJ-R	SEE NOTE 1





NOTES FOR "CMS" VALVE TABLE

SYSTEM : CONTAINMENT ATMOSPHERIC MONITORING

NOTE NUMBER : 1. Leak testing required by Technical Specification 4.6.1.2.i.



REPORT DATE: 10/22/93

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NMP2-IST-001  
 Rev. 4

SYSTEM: PRIMARY CONTAINMENT PURGE

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CPS*AOV104	2	61A F-5	A	14.00 BFV	AOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*AOV105	2	61A F-7	A	12.00 BFV	AOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*AOV106	2	61A G-5	A	14.00 BFV	AOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*AOV107	2	61A G-7	A	12.00 BFV	AOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*AOV108	2	61A I-5	A	14.00 BFV	AOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) FS-Q PI-T LJ-R	



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 Rev. 4

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						NRM	SAF	FAL				
2CPS*AOV109	2	61A I-7	A	12.00 BFV	AOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*AOV110	2	61A K-5	A	14.00 BFV	AOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*AOV111	2	61A K-7	A	12.00 BFV	AOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*SOV119	2	61A E-8	A	2.00 GLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*SOV120	2	61A E-5	A	2.00 GLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	



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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CPS*SOV121	2	61A G-8	A	2.00 GLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*SOV122	2	61A G-5	A	2.00 GLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*SOV132	2	61A F-8	A	1.00 GLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*SOV133	2	61A K-8	A	1.00 GLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2CPS*V50	2	61A F-8	AC	1.50 CHV	SEA	C	C	-	FE-Q(R) LJ-R	GVRR-1 CPS-VRR-1	FE-R(R) LJ-R	





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NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CPS*V51	2	61A J-8	AC	1.50 CHV	SEA	C	C	-	FE-Q(R) LJ-R	GVRR-1 CPS-VRR-1	FE-R(R) LJ-R	



**RELIEF REQUEST NO. CPS-VRR-1**

**System** : **Containment Purge System**

**Valve(s)** : **2CPS\*V50, 2CPS\*V51**

**Category** : **A, C**

**Class** : **2**

**Function** : **Air supply to 2CPS\*AOV107 and 2CPS\*AOV109 Inside Containment Isolation Valves**

**Quarterly Test Requirement** : **verify reverse flow closure**

**Basis for Relief** : **These valves are located inside the suppression chamber. The only means to verify reverse flow closure of these valves is to apply pressure on the down stream side of the valve via a test connection located inside the suppression chamber. During normal operation and at cold shutdowns, the suppression chamber is inerted with nitrogen, limiting access to emergency situations only. In addition, high radiation levels during power operations prohibit suppression chamber entry.**

**Alternate Testing** : **Reverse flow closure will be verified by performing Appendix J, Type C testing during refueling outages.**



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: HIGH-PRESSURE CORE SPRAY

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CSH*AOV108	1	33A I-2	AC	12.00 TCV	SEA	C	OC	-	FE-Q (F&R) PI-T LJ-R LK-R	GVRR-1 CSH-CS-1	FE-CS (F&R) PI-T LJ-R LK-R	SEE NOTE 1
2CSH*EFV1	2	33A G-6	AC	2.00 CHV	SEA	O	C	-	PI-T LJ-R FE-Q (F)	GVRR-1 GVRR-2	PI-T FE-R (F)	
2CSH*EFV2	2	33A G-7	AC	2.00 CHV	SEA	O	C	-	PI-T LJ-R FE-Q (F)	GVRR-1 GVRR-2	PI-T FE-R (F)	
2CSH*EFV3	2	33A H-3	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q (F)	GVRR-1 GVRR-2	PI-T FE-R (F)	
2CSH*MOV101	2	33B D-9	B	10.00 GTV	MOA	O	OC	AI	FE-Q ST-Q (O&C) PI-T		FE-Q ST-Q (O&C) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: HIGH-PRESSURE CORE SPRAY

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CSH*MOV105	2	33B G-5	A	4.00 GTV	MOA	C	OC	AI	PI-T LJ-R FE-Q ST-Q(O&C)	GVRR-1	PI-T LJ-R FE-Q ST-Q(O&C)	
2CSH*MOV107	1	33A G-2	A	12.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R LK-R	GVRR-1 CSH-CS-2	FE-CS ST-CS(O&C) PI-T LJ-R LK-R	SEE NOTE 1
2CSH*MOV110	2	33B G-3	B	10.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T		FE-Q ST-Q(C) PI-T	
2CSH*MOV111	2	33A F-4	A	12.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	
2CSH*MOV112	2	33B F-3	B	10.00 GLV	MOA	C	C	AI	PI-T FE-Q ST-Q(C)		PI-T FE-Q ST-Q(C)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: HIGH-PRESSURE CORE SPRAY

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CSH*MOV118	2	33A J-9	A	18.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R LK-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LK-R	NOTE 2
2CSH*RV113	2	33B F-8	C	0.75 REV	SEA	C	O	AI	RT-P2 VT-P2 LA-P2 BD-P2		RT-P2 VT-P2 LA-P2 BD-P2	
2CSH*RV114	2	33B J-5	C	0.75 REV	SEA	C	O	AI	RT-P2 VT-P2 LA-P2 BD-P2		RT-P2 VT-P2 LA-P2 BD-P2	
2CSH*V16	2	33A I-10	C	20.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2CSH*V17	2	33B J-8	C	3.00 CHV	SEA	OC	C	-	FE-Q(R)	GVRR-4	FE-Q(R)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: HIGH-PRESSURE CORE SPRAY

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CSH*V55	2	33B J-8	C	3.00 CHV	SEA	OC	C	-	FE-Q(R)	GVRR-4	FE-Q(R)	
2CSH*V59	2	33B D-9	C	10.00 CHV	SEA	O	OC	-	FE-Q(F&R)	CSH-CS-3	FE-Q(F) FE-CS(R)	
2CSH*V7	2	33B E-5	C	4.00 CHV	SEA	C	O	-	FE-Q(F)		FE-Q(F)	
2CSH*V9	2	33B I-5	C	20.00 CHV	SEA	C	O	-	FE-Q(F)		FE-Q(F)	



NOTES FOR "CSH" VALVE TABLE

SYSTEM : HIGH PRESSURE CORE SPRAY

NOTE NUMBER : 1. pressure isolation valve testing required by  
Technical Specification 3.4.3.2.d and 4.4.3.2.2.

2. hydrostatic leak rate testing required by Technical  
Specification 4.6.1.2.i.



## COLD SHUTDOWN TEST JUSTIFICATION CSH-CS-1

System : High-pressure Core Spray

Valve(s) : 2CSH\*AOV108

Category : AC

Class : 1

Function : HPCS discharge line inside containment isolation valve

Quarterly Test Requirements : verify forward flow operability and reverse flow closure

Cold Shutdown Test Justification : Operation of this valve, using system flow during power operation, would require cold water from the condensate storage tank to be injected into the reactor vessel. This cold water injection would cause reactivity spikes which could cause a plant trip and a thermal shock of system components which could reduce their expected life. In addition, this valve is a testable check valve, equipped with an air operator for testing, and the air operator is only capable of operating the valve against zero differential pressure. At power, full reactor pressure is imposed on the valve disk, causing a large differential pressure across the valve, rendering the air test operator incapable of operating the valve.

Quarterly Partial Stroke Testing : Partial stroke testing requires the same conditions as full stroke testing.

Cold Shutdown Testing : Forward flow operability and reverse flow closure will be verified, using the air test operator when the differential pressure across the valve is reduced to zero.





## COLD SHUTDOWN TEST JUSTIFICATION CSH-CS-2

System : High-Pressure Core Spray

Valve(s) : 2CSH\*MOV107

Category : A

Class : 1

Function : HPCS discharge line outside containment isolation valve

Quarterly Test Requirements : Exercise and stroke time

Cold Shutdown Test Justification : This valve and check valves 2CSH\*AOV108 and 2CHS\*V9 prevent overpressurization of the CSH pump suction piping. Since there are no provisions to detect leakage past the check valves during plant operation, opening of this valve could overpressurize the CSH pump suction piping if simultaneous leakage occurred past the check valves.

Quarterly Partial Stroke Testing : The operating circuitry of this valve only permits full stroke operation.

Cold Shutdown Testing : Exercise and stroke time



### COLD SHUTDOWN TEST JUSTIFICATION CSH-CS-3

System : High Pressure Core Spray

Valve(s) : 2CSH\*V59

Category : C

Class : 2

Function : HPCS supply from condensate storage tank check valve

Quarterly Test Requirements : reverse flow exercise

Cold Shutdown Test Justification : To test this check valve in the reverse direction requires closing the condensate storage tank supply isolation 2CSH\*V37 and venting off supply header by opening 2CSH\*V124. With the supply header vented, reverse flow verification is then accomplished by opening valves MOV107, AOV108, MOV101, and 2CSH\*V10, the bypass around pump discharge check valve. Performance of this procedure requires using reactor vessel head pressure while at cold shutdown by opening the injection valves to establish reverse flow pressure against the valve. Removal of the CSH system from operation places the plant in a limiting condition for operation in accordance with the plant technical specifications.

Quarterly Partial Stroke Testing : not applicable

Cold Shutdown Testing : reverse flow exercise



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: LOW-PRESSURE CORE SPRAY

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CSL*AOV101	1	32A I-3	AC	12.00 TCV	SEA	C	OC	AI	FE-Q (F&R) LK-R LJ-R PI-T	GVRR-1 CSL-CS-1	FE-CS (F&R) LK-R LJ-R PI-T	SEE NOTE 1
2CSL*EFV1	2	32A H-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q (F)	GVRR-1 GVRR-2	PI-T FE-R (F)	
2CSL*FV114	2	32A E-4	B	10.00 GTV	MOA	C	OC	AI	FE-Q ST-Q (O&C) PI-T		FE-Q ST-Q (O&C) PI-T	
2CSL*MOV104	1	32A H-3	A	12.00 GTV	MOA	C	OC	AI	FE-Q ST-Q (O&C) LK-R LJ-R PI-T	GVRR-1 CSL-CS-1	FE-CS ST-CS (O&C) LK-R LJ-R PI-T	SEE NOTE 1
2CSL*MOV107	2	32A C-5	B	4.00 GTV	MOA	O	OC	AI	FE-Q ST-Q (O&C) PI-T		FE-Q ST-Q (O&C) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: LOW-PRESSURE CORE SPRAY

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CSL*MOV112	2	32A G-9	A	20.00 BFV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R LK-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LK-R	NOTE 2
2CSL*RV105	2	32A F-2	AC	1.50 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2 BD-P2 LJ-R	GVRR-1	RT-P2 VT-P2 LA-P2 BD-P2	
2CSL*RV123	2	32A F-7	AC	0.75 REV	SEA	C	O	-	RT-P2 LJ-R VT-P2 LA-P2 BD-P2	GVRR-1	RT-P2 VT-P2 LA-P2 BD-P2	
2CSL*V14	2	32A D-6	C	2.00 CHV	SEA	OC	C	-	FE-Q(R)	GVRR-4	FE-Q(R)	
2CSL*V21	2	32A D-6	C	2.00 CHV	SEA	OC	C	-	FE-Q(R)	GVRR-4	FE-Q(R)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: LOW-PRESSURE CORE SPRAY

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2CSL*V4	2	32A B-3	C	16.00 CHV	SEA	C	O	-	FE-Q(F)		FE-Q(F)	
2CSL*V9	2	32A E-5	C	12.00 CHV	SEA	C	OC	-	FE-Q(F&R)		FE-Q(F&R)	



NOTES FOR "CSL" VALVE TABLE

SYSTEM : LOW PRESSURE CORE SPRAY

- NOTE NUMBER :
1. Pressure Isolation Valve testing required by Technical Specification 3.4.3.2.d and 4.4.3.2.2.
  2. Hydrostatic leak rate resting required by Technical Specification 4.6.1.2.i.



## COLD SHUTDOWN TEST JUSTIFICATION CSL-CS-1

System : Low-Pressure Core Spray

Valve(s) : 2CSL\*AOV101  
2CSL\*MOV104

Category : A (2CSL\*MOV104)  
AC (2CSL\*AOV101)

Class : 1

Function : LPCS injection inside and outside containment isolation valves

Quarterly Test Requirements : Exercise and stroke time (2CSL\*MOV104). Verify forward and reverse flow operability (2CSL\*AOV101).

Cold Shutdown Test Justification : These valves are reactor pressure boundary valves; they also provide isolation between high and low pressure CSL piping. Valve 2CSL\*MOV104 is interlocked to prevent opening when the differential pressure between the reactor and the Low Pressure Core Spray System is greater than 88 psid. Testable check valve 2CSL\*AOV101 can be operated either by using system flow through 2CSL\*MOV104 or by using the air test operator when differential pressure across the valve is equal to zero. During normal plant operations, these conditions cannot be achieved and, furthermore, if leakage occurred past either valve while the other was opened, damage could occur to the low pressure CSL piping.

Quarterly Partial Stroke Testing : Partial stroke exercising results in the same situation as full stroke exercising.

Cold Shutdown Testing : All required quarterly testing listed above will be performed.



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: DRYWELL EQUIPMENT DRAINS

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2DER*EFV31	2	67A B-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2DER*MOV119	2	67A C-3	A	4.00 GTV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	
2DER*MOV120	2	67A C-3	A	4.00 GTV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	
2DER*MOV130	2	67A C-2	A	2.00 GLV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	
2DER*MOV131	2	67A C-2	A	2.00 GLV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001

SYSTEM: REACTOR BLDG. FLOOR DRAINS

Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2DFR*MOV120	2	63E E-7	A	6.00 GTV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	
2DFR*MOV121	2	63E E-7	A	6.00 GTV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	
2DFR*MOV139	2	63E E-6	A	3.00 GTV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	
2DFR*MOV140	2	63E F-6	A	3.00 GTV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	



SYSTEM: DIESEL GENERATOR AIR STARTUP

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2EGA*AOV323A	N	104A K-6	B	3.00 GLV	AOA	C	O	-	FE-Q ST-Q(O)		FE-Q ST-Q(O)	SEE NOTE 1
2EGA*AOV323B	N	104A K-5	B	3.00 GLV	AOA	C	O	-	FE-Q ST-Q(O)		FE-Q ST-Q(O)	SEE NOTE 1
2EGA*PCV25A	N	104A F-2	B	2.50 GLV	AOA	C	O	-	FE-Q ST-Q(O)		FE-Q ST-Q(O)	SEE NOTE 1
2EGA*PCV25B	N	104A F-8	B	2.50 GLV	AOA	C	O	-	FE-Q ST-Q(O)		FE-Q ST-Q(O)	SEE NOTE 1
2EGA*PCV26A	N	104A F-3	B	2.50 GLV	AOA	C	O	-	FE-Q ST-Q(O)		FE-Q ST-Q(O)	SEE NOTE 1



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001

SYSTEM: DIESEL GENERATOR AIR STARTUP

Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2EGA*PCV26B	N	104A F-9	B	2.50 GLV	AOA	C	O	-	FE-Q ST-Q(O)		FE-Q ST-Q(O)	SEE NOTE 1
2EGA*RV125	3	104A G-3	C	30.00 RD	SEA	C	O	-	RD-P3		RD-P3	
2EGA*RV126	3	104A H-8	C	30.00 RD	SEA	C	O	-	RD-P3		RD-P3	
2EGA*RV127	3	104A L-6	C	22.00 RD	SEA	C	O	-	RD-P3		RD-P3	
2EGA*SOV328A	N	104 J-6	B	0.38	SOA	C	O	C	FE-Q ST-Q(O)	GVRR-3	FE-Q ST-Q(O)	SEE NOTE 1



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 SYSTEM: DIESEL GENERATOR AIR STARTUP

NMP2-IST-001  
 Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2EGA*SOV328B	N	104 J-5	B	0.38	SOA	C	O	C	FE-Q ST-Q(O)	GVRR-3	FE-Q ST-Q(O)	SEE NOTE 1
2EGA*SV111	3	104A H-6	C	1.00 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2EGA*SV112	3	104A H-5	C	1.00 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2EGA*SV3A	3	104A C-2	C	1.00 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2EGA*SV3B	3	104A C-8	C	1.00 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	



1



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 SYSTEM: DIESEL GENERATOR AIR STARTUP

NMP2-IST-001  
 Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2EGA*SV4A	3	104A C-4	C	1.00 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2EGA*SV4B	3	104A C-9	C	1.00 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2EGA*V12A	N	104A F-3	C	2.50 CHV	SEA	C	OC	-	FE-Q(F&R)		FE-R(F&R)	SEE NOTE 2
2EGA*V12B	N	104A F-3	C	2.50 CHV	SEA	C	OC	-	FE-Q(F&R)		FE-R(F&R)	SEE NOTE 2
2EGA*V14A	N	104A F-9	C	2.50 CHV	SEA	C	OC	-	FE-Q(F&R)		FE-R(F&R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: DIESEL GENERATOR AIR STARTUP

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2EGA*V14B	N	104A F-8	C	2.50 CHV	SEA	C	OC	-	FE-Q(F&R)		FE-R(F&R)	SEE NOTE 2
2EGA*V29A	3	104A G-6	C	1.00 CHV	SEA	OC	C	-	FE-Q(R)		FE-Q(R)	
2EGA*V29B	3	104A G-5	C	1.00 CHV	SEA	OC	C	-	FE-Q(R)		FE-Q(R)	
2EGA*V62A	3	104A C-5	C	1.50 CHV	SEA	OC	C	-	FE-Q(R)		FE-Q(R)	
2EGA*V62B	3	104A C-3	C	1.50 CHV	SEA	OC	C	-	FE-Q(R)		FE-Q(R)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: DIESEL GENERATOR AIR STARTUP

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2EGA*V63A	3	104A C-10	C	1.50 CHV	SEA	OC	C	-	FE-Q(R)		FE-Q(R)	
2EGA*V63B	3	104A C-8	C	1.50 CHV	SEA	OC	C	-	FE-Q(R)		FE-Q(R)	



NOTE "1" FOR "EGA" VALVE TABLE

System : Air Startup-Standby Diesel Generator

Valve(s) : 2EGA\*PCV25A,B  
2EGA\*PCV26A,B  
2EGA\*AOV323A,B  
2EGA\*SOV328A,B

Category : B

Class : Non-ASME

Function : Starting air supply valves

Quarterly Test Requirement : ASME XI IWV 3412 (full exercise)  
IWV3413 (stroke time)

Basis for Relief : The subject valves are non-ASME and were supplied by the Diesel Generator Vendors as part of skid-mounted equipment. Since they are non-ASME, they were not provided with any position indication and, therefore, no means of individual stroke timing and position indication exists.

Alternate Testing : 2 EGA\*PCV25A,B; PCV26A,B (Div. I, Div. II)

In lieu of individual Full Exercise, Stroke Time, testing per IWV-3412 and 3413, each (Div. I/Div. II) diesel generator shall be started during a simulated auto start and monitored to verify conformance to Tech. Spec. requirements. Since both air supplies are cross-connected downstream of the PCV's, a malfunction occurring in one of the control valves would go unnoticed. The pressure in each air supply header will be monitored during the Div. I (Div. II) diesel start signal to individually verify that each control valve is exercised to the position required to fulfill its function. As an added measure, failure of the Div. I (Div. II) diesel to start shall be evaluated for potential starting air supply valve failure.





Note "1" for "EGA" Valve Table (Cont'd.)

2EGA\*AOV323A,B; SOV328A,B - The Division III Diesel shall be started in a similar manner as described for the Div. I, Div. II diesels. However, since the cross-connect piping for the individual air tanks is isolated by a normally closed valve, the air pressure in each bank can be monitored to verify SOV/AOV operability during Div. III diesel start. Failure of the Div. III diesel to start in the allocated time would signify possible air start valve failure and warrant extensive investigations.



**NOTE "2" FOR "EGA" VALVE TABLE**

System : Air Startup-Standby Diesel Generator

Valve(s) : 2EGA\*V12A,B  
2EGA\*V14A,B

Category : B

Class : Non-ASME

Function : Starting air supply check valves

Quarterly Test Requirement : Forward and reverse flow closure

Basis for Relief : These valves are non-ASME and were supplied as part of the diesel generator skid. They are installed in each starting air header to prevent loss of both starting air headers in the event of a catastrophic failure on either one of the starting supply headers. The vendor experienced numerous check valve failures during testing, attributed to frequent cycling or "fluttering" of the disk against the back seat travel stop. Therefore, the valves were installed upside down, causing the valve disk to remain open during normal system operation. If a system condition causing a sudden large pressure differential (at least 200 psig) across the valve in the reverse direction occurs, the valve disk will lift and travel to the closed position. Since a catastrophic failure in either air starting header would result in the pressure differential required to close the valve, the vendor determined installing the valve in this configuration would allow the valve to perform its safety function without excessive wear to the valve.



**Note "2" for "EGA" Valve Table (Cont'd.)**

Based on the above discussion, NMPC has determined that cycling these valves quarterly to perform ASME XI testing requires simulation of a catastrophic failure of one starting air supply header and could result in accelerated degradation to the valve; therefore, these valves will be tested each refueling outage.

**Alternate  
Testing**

**:** The valves will be forward and reverse flow exercise tested each refueling outage by simulating a catastrophic failure of one starting air supply header while simultaneously verifying the subject check valve closes and subsequently opens upon restarting the diesel while monitoring air header pressure drop. Verification will be by visual observation that the valve closes or indirectly by monitoring that the air start system functions properly (i.e., Diesel RPM).



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: STANDBY DIESEL GENERATOR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2EGF*V12	3	104C D-4	C	1.00 CHV	SEA	C	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2EGF*V13	3	104C F-5	C	1.00 CHV	SEA	C	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2EGF*V32	3	104B D-6	C	1.00 CHV	SEA	C	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2EGF*V33	3	104B F-7	C	1.00 CHV	SEA	C	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2EGF*V52	3	104B D-2	C	1.00 CHV	SEA	C	OC	-	FE-Q(F&R)		FE-Q(F&R)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
Rev. 4

SYSTEM: STANDBY DIESEL GENERATOR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2EGF*V53	3	104B F-2	C	1.00 CHV	SEA	C	OC	-	FE-Q(F&R)		FE-Q(F&R)	

III - EGF - 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: FIRE PROTECTION WATER

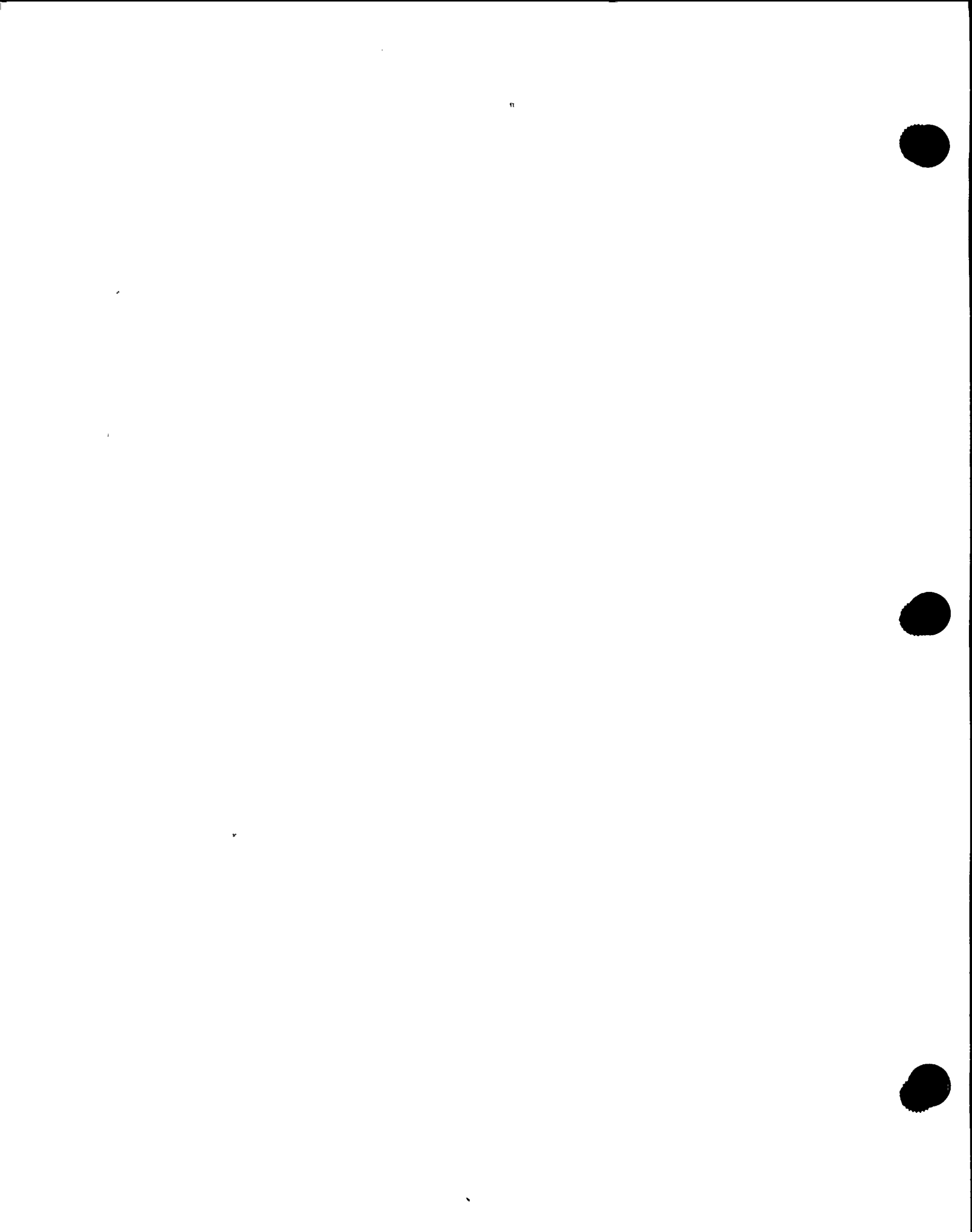
VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2FPW*SOV218	2	43G E-8	A	2.00 GTV	SEA	C	C	C	LJ-R	GVRR-1	LJ-R	SEE NOTE 1
2FPW*SOV219	2	43G E-7	A	2.00 GTV	SEA	C	C	C	LJ-R	GVRR-1	LJ-R	SEE NOTE 1
2FPW*SOV220	2	43G D-8	A	2.00 GTV	SEA	C	C	C	LJ-R	GVRR-1	LJ-R	SEE NOTE 1
2FPW*SOV221	2	43G D-7	A	2.00 GTV	SEA	C	C	C	LJ-R	GVRR-1	LJ-R	SEE NOTE 1



NOTES FOR "FPW" VALVE TABLE

SYSTEM : FIRE PROTECTION WATER

NOTE NUMBER : 1. The FPW Valves, 2FPW\*SOV218, 219, 220, 221 have been abandoned in place and are considered passive for all modes of operation. Electrical leads have been lifted and caps have been installed to blank inboard and outboard pipe ends. Since these valves are Containment Isolation Valves, only the Appendix J (LJ-R) test will remain. LDCN-U-1397 (ECN-2M10220) and SER 90-121 have been approved to justify and implement the change.



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: FEEDWATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2FWS*AOV23A	1	6B G-2	AC	24.00 TCV	SEA	O	C	-	FE-Q(R) PI-T LJ-R	GVRR-1 FWS-CS-1	FE-CS(R) PI-T LJ-R	
2FWS*AOV23B	1	6B G-6	AC	24.00 TCV	SEA	O	C	-	FE-Q(R) PI-T LJ-R	GVRR-1 FWS-CS-1	FE-CS(R) PI-T LJ-R	
2FWS*MOV21A	1	6B E-2	A	24.00 GTV	MOA	O	C	A1	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1 FWS-CS-2	FE-CS ST-CS(C) PI-T LJ-R	
2FWS*MOV21B	1	6B E-6	A	24.00 GTV	MOA	O	C	A1	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1 FWS-CS-2	FE-CS ST-CS(C) PI-T LJ-R	
2FWS*V12A	1	6B H-2	AC	24.00 CHV	SEA	O	C	-	FE-Q(R) LJ-R	GVRR-1 FWS-CS-3	FE-CS(R) LJ-R	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: FEEDWATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2FWS*V12B	1	6B H-6	AC	24.00 CHV	SEA	O	C	-	FE-Q(R) LJ-R	GVRR-1 FWS-CS-3	FE-CS(R) LJ-R	

III - FWS - 2



## COLD SHUTDOWN TEST JUSTIFICATION FWS-CS-1

System : Feedwater

Valve(s) : 2FWS\*AOV23A,B

Category : AC

Class : 1

Function : Feedwater system outside primary containment isolation valve

Quarterly Test Requirements : Verify reverse flow closure

Cold Shutdown Test Justification : During normal operation, full flow tends to maintain the check valve disk partially open, causing dual position indication. Any attempt to exercise the disk closed, using the piston operator, does not yield any change in the dual position indication status.

Cold Shutdown Testing : With reactor water cleanup flow lined up to the feedwater piping, the RWCU pumps shall be momentarily secured. Verification of closure will be observed by a change in status light indication from dual indication to closed indication.



## COLD SHUTDOWN TEST JUSTIFICATION FWS-CS-2

System : Feedwater

Valve(s) : 2FWS\*MOV21A,B

Category : A

Class : 1

Function : Feedwater system flow block valves

Quarterly Test Requirements : Exercise and stroke time

Cold Shutdown Test Justification : Exercising these valves during normal operation would require a significant reduction in power and stopping one loop of feedwater flow. Isolation of one loop of feedwater would introduce undesirable operational transients and could result in a reactor scram.

Quarterly Partial Stroke Testing : The operating circuitry of this valve only permits full stroke operation.

Cold Shutdown Testing : Exercise and stroke time



### COLD SHUTDOWN JUSTIFICATION FWS-CS-3

System : Feedwater

Valve(s) : 2FWS\*V12A,B

Category : AC

Class : 1

Function : Feedwater system inside primary containment isolation valves

Quarterly Test Requirement : Verify reverse flow closure

Basis for Relief : Verification of reverse flow closure of these valves during normal operation would require a significant reduction in power and stopping one loop of feedwater flow. Isolation of one feedwater loop during normal operation would introduce an undesirable operational transient that could result in a reactor scram. When the feedwater system is shut down, reactor vessel head pressure (approx. 15 psig) is applied to the downstream side of the valves, causing them to close. Verification of the valve closure will be accomplished by depressurizing the upstream side of the valve via a drain connection located outside the primary containment.

Alternate Cold Shutdown Testing : Reverse flow closure will be verified.





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: NITROGEN SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2GSN*SOV166	2	105B J-7	A	1.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q LJ-R PI-T	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2GSN*V170	2	105B K-7	AC	1.00 CHV	SEA	O	C	-	FE-Q(R) LJ-R	GVRR-1 GSN-VRR-1	FE-R(R) LJ-R	
2GSN*V70A	3	105B K-2	C	1.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2GSN*V70B	3	105B K-4	C	1.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2GSN*V75A	3	105B I-3	C	1.00 CHV	SEA	C	O	-	FE-Q(F)		FE-Q(F)	



2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
Rev. 4

SYSTEM: NITROGEN SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2GSN*V75B	3	105B I-4	C	1.00 CHV	SEA	C	O	-	FE-Q(F)		FE-Q(F)	

III - GSN - 2



RELIEF REQUEST NO. GSN-VRR-1

System : Nitrogen

Valve(s) : 2GSN\*V170

Category : AC

Class : 2

Function : TIP mechanism nitrogen purge primary containment isolation valves

Quarterly Test Requirement : Verify reverse flow closure

Basis for Relief : The only method available to verify reverse flow closure is by valve leak rate testing during Appendix J, Type C testing at refueling.

Alternate Testing : Reverse flow closure will be verified during Appendix J, Type C testing during refueling outages.



SYSTEM: DBA HYDROGEN RECOMBINER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2HCS*MOV1A	2	62A D-8	A	3.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2HCS*MOV1B	2	62A I-8	A	3.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2HCS*MOV25A	2	62B J-5	B	3.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2HCS*MOV25B	2	62B C-10	B	3.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2HCS*MOV26A	2	62B I-3	B	0.75 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: DBA HYDROGEN RECOMBINER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2HCS*MOV26B	2	62B C-7	B	0.75 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2HCS*MOV2A	2	62A D-6	A	3.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2HCS*MOV2B	2	62A I-6	A	3.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2HCS*MOV3A	2	62A D-4	A	3.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2HCS*MOV3B	2	62A I-4	A	3.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	



SYSTEM: DBA HYDROGEN RECOMBINER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2HCS*MOV4A	2	62A F-8	A	3.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2HCS*MOV4B	2	62A H-8	A	3.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2HCS*MOV5A	2	62A F-6	A	3.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2HCS*MOV5B	2	62A H-6	A	3.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2HCS*MOV6A	2	62A F-4	A	3.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	



SYSTEM: DBA HYDROGEN RECOMBINER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2HCS*MOV6B	2	62A G-4	A	3.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2HCS*SOV10A	2	62A A-3	B	1.00 GLV	SOA	C	OC	O	FE-Q ST-Q(O&C) FS-Q(O) PI-T	GVRR-3	FE-Q ST-Q(O&C) FS-Q(O) PI-T	
2HCS*SOV10B	2	62A L-3	B	1.00 GLV	SOA	C	OC	O	FE-Q ST-Q(O&C) FS-Q(O) PI-T	GVRR-3	FE-Q ST-Q(O&C) FS-Q(O) PI-T	
2HCS*SOV11A	2	62A A-8	B	1.00 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q(C) PI-T	GVRR-3	FE-Q ST-Q(O&C) FS-Q(C) PI-T	
2HCS*SOV11B	2	62A L-8	B	1.00 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q(C) PI-T	GVRR-3	FE-Q ST-Q(O&C) FS-Q(C) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001

SYSTEM: CONTROL BLDG. CHILLED WATER

Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2HVK*SOV36A	3	53A F-3	B	3.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	
2HVK*SOV36B	3	53A F-8	B	3.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	
2HVK*V105	3	53A B-10	C	6.00 CHV	SEA	OC	0	-	FE-Q(F)		FE-Q(F)	
2HVK*V106	3	53A B-5	C	6.00 CHV	SEA	OC	0	-	FE-Q(F)		FE-Q(F)	
2HVK*V158	3	53A F-2	C	3.00 CHV	SEA	OC	C	-	FE-Q(R)		FE-Q(R)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 SYSTEM: CONTROL BLDG. CHILLED WATER

NMP2-IST-001  
 Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION NRM SAF FAL	ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
2HVK*V163	3	53A F-7	C	3.00 CHV	SEA	OC C -	FE-Q(R)		FE-Q(R)	
2HVK*V327	3	53A I-10	C	1.00 CHV	SEA	OC C -	FE-Q(R)		FE-Q(R)	
2HVK*V95	3	53A I-5	C	1.00 CHV	SEA	OC C -	FE-Q(R)		FE-Q(R)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: INSTRUMENT AIR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2IAS*EFV200	2	19E D-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2IAS*EFV201	2	19E H-10	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2IAS*EFV202	2	19E G-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2IAS*EFV203	2	19F I-8	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2IAS*EFV204	2	19F K-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: INSTRUMENT AIR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2IAS*EFV205	2	19F B-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2IAS*EFV206	2	19F K-9	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2IAS*PSE141	3	19L G-8	C	1.00 RD	SEA	C	O	O	RD-P3		RD-T	SEE NOTE 1
2IAS*PSE142	3	19L G-10	C	1.00 RD	SEA	C	O	O	RD-P3		RD-T	SEE NOTE 1
2IAS*PSE143	3	19L G-3	C	1.00 RD	SEA	C	O	O	RD-P3		RD-T	SEE NOTE 1



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: INSTRUMENT AIR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2IAS*PSE144	3	19L G-6	C	1.00 RD	SEA	C	O	O	RD-P3		RD-T	SEE NOTE 1
2IAS*PSE145	3	19M F-8	C	1.00 RD	SEA	C	O	O	RD-P3		RD-T	SEE NOTE 1
2IAS*PSE146	3	19M F-10	C	1.00 RD	SEA	C	O	O	RD-P3		RD-T	SEE NOTE 1
2IAS*PSE147	3	19M F-3	C	1.00 RD	SEA	C	O	O	RD-P3		RD-T	SEE NOTE 1
2IAS*PSE148	3	19M F-5	C	1.00 RD	SEA	C	O	O	RD-P3		RD-T	SEE NOTE 1





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: INSTRUMENT AIR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2IAS*PSE19A	3	19D I-3	C	1.00 RD	SEA	C	O	O	RD-P3		RD-T	SEE NOTE 1
2IAS*PSE19B	3	19D I-7	C	1.00 RD	SEA	C	O	O	RD-P3		RD-T	SEE NOTE 1
2IAS*SOV164	2	19D C-10	A	1.50 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2IAS*SOV165	2	19F C-10	A	1.50 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	
2IAS*SOV166	2	19D C-8	A	1.50 GLV	SOA	O	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(O&C) FS-Q PI-T LJ-R	



SYSTEM: INSTRUMENT AIR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2IAS*SOV167	2	19G C-7	A	1.50 GLV	SOA	C	C	C	PI-T LJ-R FE-Q ST-Q(C) FS-Q	GVRR-1 GVRR-3	PI-T LJ-R FE-Q ST-Q(C) FS-Q	
2IAS*SOV168	2	19G C-5	A	1.50 GLV	SOA	C	C	C	PI-T LJ-R FE-Q ST-Q(C) FS-Q	GVRR-1 GVRR-3	PI-T LJ-R FE-Q ST-Q(C) FS-Q	
2IAS*SOV180	2	19G D-5	A	1.50 GLV	SOA	C	C	C	PI-T LJ-R FE-Q ST-Q(C) FS-Q	GVRR-1 GVRR-3	PI-T LJ-R FE-Q ST-Q(C) FS-Q	
2IAS*SOV184	2	19D E-8	A	1.50 GLV	SOA	O	OC	C	PI-T LJ-R FE-Q ST-Q(O&C) FS-Q	GVRR-1 GVRR-3	PI-T LJ-R FE-Q ST-Q(O&C) FS-Q	
2IAS*SOV185	2	19G E-8	A	1.50 GLV	SOA	C	C	C	PI-T LJ-R FE-Q ST-Q(C) FS-Q	GVRR-1 GVRR-3	PI-T LJ-R FE-Q ST-Q(C) FS-Q	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: INSTRUMENT AIR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2IAS*SOVX181	3	19D J-3	B	1.50 GLV	SOA	OC	O	C	FE-Q ST-Q(O) FS-Q PI-T	GVRR-3	FE-Q ST-Q(O) FS-Q PI-T	
2IAS*SOVX186	3	19D J-7	B	1.50 GLV	SOA	OC	O	C	FE-Q ST-Q(O) FS-Q PI-T	GVRR-3	FE-Q ST-Q(O) FS-Q PI-T	
2IAS*SOVY181	3	19D J-4	B	0.75 GLV	SOA	OC	O	C	FE-Q ST-Q(O) FS-Q PI-T	GVRR-3	FE-Q ST-Q(O) FS-Q PI-T	
2IAS*SOVY186	3	19D J-8	B	0.75 GLV	SOA	OC	O	C	FE-Q ST-Q(O) FS-Q PI-T	GVRR-3	FE-Q ST-Q(O) FS-Q PI-T	
2IAS*SV19A	3	19D I-3	C	0.75 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: INSTRUMENT AIR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2IAS*SV19B	3	19D I-7	C	0.75 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2IAS*SV20A	3	19D K-3	C	0.75 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2IAS*SV20B	3	19D K-7	C	0.75 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2IAS*V1601	3	19L D-6	AC	1.50 CHV	SEA	O	C	C	FE-Q(R) LK-R	IAS-VRR-2	FE-R@ (R) LK-R	SEE NOTE 2
2IAS*V1602	3	19L D-9	AC	1.50 CHV	SEA	O	C	C	FE-Q(R) LK-R	IAS-VRR-2	FE-R@ (R) LK-R	SEE NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: INSTRUMENT AIR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2IAS*V1603	3	19L D-2	AC	1.50 CHV	SEA	O	C	C	FE-Q(R) LK-R	IAS-VRR-2	FE-R@ (R) LK-R	SEE NOTE 2
2IAS*V1604	3	19L D-4	AC	1.50 CHV	SEA	O	C	C	FE-Q(R) LK-R	IAS-VRR-2	FE-R@ (R) LK-R	SEE NOTE 2
2IAS*V1605	3	19M H-7	AC	1.50 CHV	SEA	O	C	C	FE-Q(R) LK-R	IAS-VRR-2	FE-R@ (R) LK-R	SEE NOTE 2
2IAS*V1606	3	19M H-9	AC	1.50 CHV	SEA	O	C	C	FE-Q(R) LK-R	IAS-VRR-2	FE-R@ (R) LK-R	SEE NOTE 2
2IAS*V1607	3	19M H-2	AC	1.50 CHV	SEA	O	C	C	FE-Q(R) LK-R	IAS-VRR-2	FE-R@ (R) LK-R	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: INSTRUMENT AIR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2IAS*V1608	3	19M H-4	AC	1.50 CHV	SEA	O	C	C	FE-Q(R) LK-R	IAS-VRR-2	FE-Rθ(R) LK-R	SEE NOTE 2
2IAS*V421	3	19E C-4	AC	1.25 CHV	SEA	OC	OC	-	FE-Q(F&R) LK-R	IAS-VRR-2	FE-Q(F) FE-Rθ(R) LK-R	SEE NOTE 2
2IAS*V431	3	19E F-4	AC	1.25 CHV	SEA	OC	OC	-	FE-Q(F&R) LK-R	IAS-VRR-2	FE-Q(F) FE-Rθ(R) LK-R	SEE NOTE 2
2IAS*V448	2	19D E-10	AC	1.50 CHV	SEA	OC	OC	-	FE-Q(F&R) LJ-R	IAS-VRR-1 GVRR-1	FE-Q(F) FE-R(R) LJ-R	
2IAS*V449	2	19F D-10	AC	1.50 CHV	SEA	OC	OC	-	FE-Q(F&R) LJ-R	IAS-VRR-1 GVRR-1	FE-Q(F) FE-R(R) LJ-R	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: INSTRUMENT AIR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2IAS*V471	3	19E G-10	AC	1.25 CHV	SEA	OC	OC	-	FE-Q (F&R) LK-R	IAS-VRR-2	FE-Q (F) FE-Rθ (R) LK-R	SEE NOTE 2
2IAS*V526	3	19F C-4	AC	1.25 CHV	SEA	OC	OC	-	FE-Q (F&R) LK-R	IAS-VRR-2	FE-Q (F) FE-Rθ (R) LK-R	SEE NOTE 2
2IAS*V546	3	19F J-4	AC	1.25 CHV	SEA	OC	OC	-	FE-Q (F&R) LK-R	IAS-VRR-2	FE-Q (F) FE-Rθ (R) LK-R	SEE NOTE 2
2IAS*V571	3	19F G-8	AC	1.25 CHV	SEA	OC	OC	-	FE-Q (F&R) LK-R	IAS-VRR-2	FE-Q (F) FE-Rθ (R) LK-R	SEE NOTE 2
2IAS*V581	3	19F J-8	AC	1.25 CHV	SEA	OC	OC	-	FE-Q (F&R) LK-R	IAS-VRR-2	FE-Q (F) FE-Rθ (R) LK-R	SEE NOTE 2



NOTES FOR "IAS" VALVE TABLE

SYSTEM : INSTRUMENT AIR

- NOTE NUMBER :
1. Replace every two (2) years. Reference Engineering recommendation per memo No. SM2-M91-0134, 0129 & DEC dated May 10, 1991.
  2. Reference Technical Specification 4.5.1.e.2.d





RELIEF REQUEST NO. IAS-VRR-1

System : Instrument

Valve(s) : 2IAS\*V448  
2IAS\*V449

Category : AC

Class : 2

Function : Instrument air system primary containment isolation valves

Quarterly Test Requirement : Verify reverse flow closure

Basis for Relief : The only method available to verify reverse flow closure is by valve leak testing during Appendix J, Type C testing at refueling.

Alternate Testing : Reverse flow closure will be verified during Appendix J, Type C testing during refueling outages.



RELIEF REQUEST NO. IAS-VRR-2

System : Instrument Air

Valve(s) : 2IAS\*V421 2IAS\*V1602  
2IAS\*V431 2IAS\*V1603  
2IAS\*V471 2IAS\*V1604  
2IAS\*V526 2IAS\*V1605  
2IAS\*V546 2IAS\*V1606  
2IAS\*V571 2IAS\*V1607  
2IAS\*V581 2IAS\*V1608  
2IAS\*V1601

Category : AC

Class : 3

Function : Main steam safety relief, ADS valve accumulator and MSIV accumulator inlet air check valves

Quarterly Test Requirement : Verify reverse flow closure

Basis for Relief : To verify reverse flow closure requires isolating the associated instrument air header and venting the upstream side of check valve while pressure is applied to the downstream side of the valve. These valves are located inside the primary containment and testing requires entering the containment. During power and cold shutdown, the containment atmosphere is normally inerted with nitrogen, limiting access to emergencies only. In addition, high radiation levels during power operations prohibit containment entry.

Alternate Testing : Reverse flow closure will be verified during all refueling outages and during cold shutdowns when the primary containment is de-inerted.



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR CORE ISOLATION COOLING

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ICS*AOV109	2	35B F-8	B	2.00 GLV	AOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	
2ICS*AOV110	2	35B E-8	B	2.00 GLV	AOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	
2ICS*AOV130	2	35C D-10	B	2.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	
2ICS*AOV131	2	35C D-10	B	2.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	
2ICS*AOV156	1	35C G-3	AC	6.00 TCV	SEA	C	OC	-	FE-Q(F&R) LJ-R PI-T LK-R	GVRR-1 ICS-CS-2	FE-CS(F&R) LJ-R PI-T LK-R	SEE NOTE 1



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR CORE ISOLATION COOLING

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ICS*AOV157	1	35C J-3	AC	6.00 TCV	SEA	C	OC	-	FE-Q(F&R) LJ-R PI-T LK-R	GVRR-1 ICS-CS-2	FE-CS(F&R) LJ-R PI-T LK-R	SEE NOTE 1
2ICS*EFV1	2	35A H-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ICS*EFV2	2	35A H-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ICS*EFV3	2	35A H-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ICS*EFV4	2	35A H-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR CORE ISOLATION COOLING

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ICS*MOV116	2	35C D-4	B	2.00 GLV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2ICS*MOV120	2	35C C-9	B	4.00 GLV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2ICS*MOV121	1	35A C-4	A	10.00 GTV	MOA	O	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2ICS*MOV122	2	35A G-7	A	12.00 GTV	MOA	O	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2ICS*MOV124	2	35D C-3	B	4.00 GTV	MOA	C	C	AI	PI-T FE-Q ST-Q(C)		PI-T FE-Q ST-Q(C)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR CORE ISOLATION COOLING

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ICS*MOV126	1	35C G-3	A	6.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T	GVRR-1 ICS-CS-1	FE-CS ST-CS(O&C) LJ-R PI-T	
2ICS*MOV128	1	35A D-4	A	10.00 GTV	MOA	O	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T	GVRR-1	FE-Q ST-Q(O&C) LJ-R PI-T	
2ICS*MOV129	2	35D I-5	B	6.00 GTV	MOA	OC	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2ICS*MOV136	2	35A I-10	A	6.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R LK-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LK-R	NOTE 2
2ICS*MOV143	2	35A F-7	A	2.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
Rev. 4

SYSTEM: REACTOR CORE ISOLATION COOLING

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ICS*MOV148	2	35A I-7	A	1.50 GLV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2ICS*MOV159	2	35B K-9	B	1.00 GLV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2ICS*MOV164	2	35A H-6	A	1.50 GLV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2ICS*MOV170	2	35A D-5	A	1.00 GLV	MOA	OC	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	
2ICS*PCV115	2	35C D-4	B	2.00 GTV	EHA	OC	O	O	FE-Q ST-Q(O) FS-Q		FE-Q ST-Q(O) FS-Q	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR CORE ISOLATION COOLING

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ICS*PSE117	2	35B F-5	D	10.00 RD	SEA	C	O	O	RD-P3		RD-T	NOTE 3
2ICS*PSE118	2	35B F-5	D	10.00 RD	SEA	C	O	O	RD-P3		RD-T	NOTE 3
2ICS*RV112	2	35C C-3	C	0.75 REV	SEA	C	O	AI	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2ICS*RV114	2	35D D-5	C	0.75 REV	SEA	C	O	AI	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2ICS*V249	2	35D I-5	C	6.00 CHV	SEA	C	OC	-	FE-Q (F&R)		FE-Q (F&R)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
Rev. 4

SYSTEM: REACTOR CORE ISOLATION COOLING

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ICS*V27	2	35D F-5	C	6.00 CHV	SEA	OC	0	-	FE-Q(F)		FE-Q(F)	
2ICS*V28	2	35A H-10	C	6.00 CHV	SEA	C	0	-	FE-Q(F)	ICS-VRR-1	DI-R PE-Q(F)	
2ICS*V29	2	35A F-7	C	12.00 CHV	SEA	C	0	-	FE-Q(F)	ICS-VRR-2	DI-R PE-2(F)	
2ICS*V38	2	35A E-7	C	2.00 CHV	SEA	C	0	-	FE-Q(F)		FE-Q(F)	
2ICS*V39	2	35A I-6	C	1.50 VRV	SEA	C	0	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR CORE ISOLATION COOLING

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ICS*V40	2	35A I-6	C	1.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	



## NOTES FOR "ICS" VALVE TABLE

SYSTEM : ISOLATION CORE COOLING

- NOTE NUMBER :
1. Reference Technical Specification 4.4.3.2.2
  2. Hydrostatic leak rate testing required by Technical Specification 4.6.1.2.i.
  3. Replacement every 2 years based on Manufacturer's and Engineering recommendation. Reference SM2-M91-0134 and 0129 dated May 10, 1991.



## COLD SHUTDOWN TEST JUSTIFICATION ICS-CS-1

System : Reactor Core Isolation Cooling

Valve(s) : 2ICS\*MOV126

Category : A

Class : 1

Function : RCIC injection valve

Quarterly Test Requirements : Exercise and stroke time

Cold Shutdown Test Justification : System design did not provide a means to verify that there is no leakage across downstream testable check valves 2ICS\*AOV156 and 2ICS\*AOV157 during normal operation. If leakage does exist, opening 2ICS\*MOV126 during normal operation could result in an intersystem LOCA.

Quarterly Partial Stroke Testing : The operating circuitry of this valve only permits full stroke operation.

Cold Shutdown Testing : Exercise and stroke time





## COLD SHUTDOWN TEST JUSTIFICATION ICS-CS-2

System : Reactor Core Isolation Cooling

Valve(s) : 2ICS\*AOV156  
2ICS\*AOV157

Category : A

Class : 1

Function : RCIC injection line containment isolation valves

Quarterly Test Requirements : Verify forward flow operability and reverse flow closure

Cold Shutdown Test Justification : These valves are testable check valves capable of being operated either by system flow or by the installed air test operators. The use of system flow to operate during power operation would require injecting cold water from the condensate storage tank into the reactor vessel. Due to the location of the injection point, water could be carried over in the main steam, causing damage to the main turbine. In addition, thermal shock would occur in the system piping which could reduce expected component life and reactivity spikes would occur that could cause a plant trip. Since the ICS system is depressurized during normal operation, a differential pressure exists across the testable check valves. The air test operator is only capable of exercising the valve with zero pressure differential.

Quarterly Partial Stroke Testing : Partial stroking requires the same conditions as full stroke testing.

Cold Shutdown Testing : Forward flow operability and reverse flow closure will be verified using the air test operators when the differential pressure across the valve is zero.



**RELIEF REQUEST NO. ICS-VRR-1**

**System** : **Reactor Core Isolation Cooling**

**Valve(s)** : **2ICS\*V28**

**Category** : **C**

**Class** : **2**

**Function** : **ICS Pump Suction from Suppression Pool Check Valve**

**Quarterly Test Requirement** : **Verify forward flow operability**

**Basis for Relief** : **Full stroke forward flow exercising of this valve by normal system flow paths would require injecting poor quantity suppression pool water into either the reactor vessel or the condensate storage tank which would result in an undesirable water chemistry condition. The valve can be exercised by returning flow to the suppression pool via the mini-flow line; however, due to the smaller line size of the mini-flow, the flow rate that could be obtained would result in only a partial opening of the valve.**

**Alternate Testing** : **Partial forward flow exercise by recirculating water to the suppression pool via the mini-flow line quarterly. The valve will be disassembled and inspected during refueling.**

Since the only means available to full flow test the valve is to inject water into the reactor vessel, the valve will be disassembled and inspected at refueling.



RELIEF REQUEST NO. ICS-VRR-2

System : Reactor Core Isolation Cooling  
Valve(s) : 2ICS\*V29  
Category : C  
Class : 2  
Function : Open to Allow Turbine Exhaust Steam to Condensate in the Suppression Pool

ASME XI  
Quarterly Test  
Requirements : Verify forward flow operability

Basis for  
Relief : To verify forward full flow operability would require an accident flow rate through valve ICS\*V29 OF 28,000 lbs/hr of steam to be discharged to suppression pool through the existing test loop.

The test flow rate is limited to 25,000 lbs/hr due to system design and piping configuration.

Since there is no alternative in the existing design to achieve a full flow test, the valve will be disassembled and inspected at refueling outage.

Alternate  
Testing :

- Quarterly partial forward flow exercise during the steam condensing test mode.
- Once per refueling outage: Disassembly and inspection shall be performed in accordance with NRC staff position stipulated in GL-89-04, position 2.



SYSTEM: REACTOR VESSEL INSTRUMENT

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ISC*EFV1	2	28A I-2	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV10	2	28B I-8	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV11	2	28C I-2	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV12	2	28C I-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV13	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	





SYSTEM: REACTOR VESSEL INSTRUMENT

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ISC*EFV14	2	28C I-8	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV15	2	28B D-3	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV16	2	28B D-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV17	2	28B D-8	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV18	2	28C D-2	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 SYSTEM: REACTOR VESSEL INSTRUMENT

NMP2-IST-001  
 Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ISC*EFV19	2	28C D-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV2	2	28A I-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV20	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV21	2	28C D-8	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV22	2	28C D-9	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR VESSEL INSTRUMENT

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ISC*EFV23	2	28C D-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV24	2	28C I-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV25	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV26	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV27	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR VESSEL INSTRUMENT

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ISC*EFV28	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV29	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV3	2	28A I-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV30	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV31	2	28C D-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR VESSEL INSTRUMENT

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ISC*EFV32	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV33	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV34	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV35	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV36	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR VESSEL INSTRUMENT

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ISC*EFV37	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV38	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV39	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV4	2	28A I-7	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV40	2	28C I-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



SYSTEM: REACTOR VESSEL INSTRUMENT

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ISC*EFV41	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV42	2	28C M-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV5	2	28A D-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV6	2	28A D-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV7	2	28A D-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



SYSTEM: REACTOR VESSEL INSTRUMENT

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ISC*EFV8	2	28B I-3	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*EFV9	2	28B I-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2ISC*RV33A	2	28A 19G B-9 E-10	C	24.00 VRV	SEA AOA	C	O	-	FE-P2 (O&C) RT-P2 PI-P2 LA-P2		FE-R(O&C) RT-R PI-R LA-R	NOTES 1,2,3,4,5,6
2ISC*RV33B	2	28A 19G B-9 E-10	C	24.00 VRV	SEA AOA	C	O	-	FE-P2 (O&C) RT-P2 PI-P2 LA-P2		FE-R(O&C) RT-R PI-R LA-R	NOTES 1,2,3,4,5,6
2ISC*RV34A	2	28A 19G C-9 D-9	C	24.00 VRV	SEA AOA	C	O	-	FE-P2 (O&C) RT-P2 PI-P2 LA-P2		FE-R(O&C) RT-R PI-R LA-R	NOTES 1,2,3,4,5,6





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR VESSEL INSTRUMENT

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2ISC*RV34B	2	28A 19G C-9 D-9	C	24.00 VRV	SEA AOA	C	O	-	FE-P2 (O&C) RT-P2 PI-P2 LA-P2		FE-R(O&C) RT-R PI-R LA-R	NOTES 1,2,3,4,5,6
2ISC*RV35A	2	28A 19G D-9 B-9	C	24.00 VRV	SEA AOA	C	O	-	FE-P2 (O&C) RT-P2 PI-P2 LA-P2		FE-R(O&C) RT-R PI-R LA-R	NOTES 1,2,3,4,5,6
2ISC*RV35B	2	28A 19G D-9 B-9	C	24.00 VRV	SEA AOA	C	O	-	FE-P2 (O&C) RT-P2 PI-P2 LA-P2		FE-R(O&C) RT-R PI-R LA-R	NOTES 1,2,3,4,5,6
2ISC*RV36A	2	28A 19G E-9 C-10	C	24.00 VRV	SEA AOA	C	O	-	FE-P2 (O&C) RT-P2 PI-P2 LA-P2		FE-R(O&C) RT-R PI-R LA-R	NOTES 1,2,3,4,5,6
2ISC*RV36B	2	28A 19G E-9 C-10	C	24.00 VRV	SEA AOA	C	O	-	FE-P2 (O&C) RT-P2 PI-P2 LA-P2		FE-R(O&C) RT-R PI-R LA-R	NOTES 1,2,3,4,5,6



## NOTES FOR "ISC" VALVE TABLE

1. Since OM-1-1981 does not explicitly state how "the valves shall be actuated to verify open and close capability" (e.g., using torque valves), the method used by the Technical Specification 4.6.4.b.3 will be used for the exercise test. This surveillance requirement uses the remote air-operated actuator as the valves are located inside the drywell which is inaccessible during power operations (e.g., inerted containment).
2. Reference OM-1-1981 applicability statements in Section III, Item 2.1.5.
3. Since OM-1-1981 implicitly states (Item 3.2.2.3) that "compliance with the owners' seat tightness criteria shall be verified", a successful drywell-to-suppression chamber bypass leakage test (USAR Section 6.2.6.6 and Technical Specification 4.6.2.1.d) will be used to satisfy the leakage test.

The Technical Specification Sections 4.6.2.1.d and 4.6.4 exceeds and satisfy the frequency of the OM-1-1981 requirements.

4. Since OM-1-1981 does not explicitly state how the "performance of any pressure and position sensing accessories" are to be demonstrated, the methods used by the Technical Specification 4.6.4.b.2 will be used (e.g., observation of expected valve movement during the cycling test will be by observing the valve position indicators in the control room).
5. Since OM-1-1981 does not explicitly state how the "performance of any pressure and position sensing accessories" are to be demonstrated, the methods used by Technical Specification 4.6.4.b.3 will be used (e.g., position indication channel calibration done in conjunction with the setpoint test).
6. Appendix "B" Determination No. 89-67, Rev. 2 and USAR Section 6.2.1.1.2, Page 6.2-6b state that the primary containment of NMP2 is not provided with primary containment vacuum relief valves since the primary containment structure can accommodate subatmospheric pressure of approximately 10 psia at maximum operating water level. Therefore, frequency of OM-1-1981, Section I.3.4.3 "Primary Containment Vacuum Relief Valves" is not applicable to those type of vacuum relief valves.



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CONT. LEAKAGE MONITORING

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2LMS*SOV152	2	81A D-4	A	0.75 GLV	SOA	C	C	C	PI-T LJ-R FE-Q ST-Q(C) FS-Q	GVRR-1 GVRR-3	PI-T LJ-R FE-Q ST-Q(C) FS-Q	
2LMS*SOV153	2	81A F-4	A	0.75 GLV	SOA	C	C	C	PI-T LJ-R FE-Q ST-Q(C) FS-Q	GVRR-1 GVRR-3	PI-T LJ-R FE-Q ST-Q(C) FS-Q	
2LMS*SOV156	2	81A D-9	A	0.75 GLV	SOA	C	C	C	PI-T LJ-R FE-Q ST-Q(C) FS-Q	GVRR-1 GVRR-3	PI-T LJ-R FE-Q ST-Q(C) FS-Q	
2LMS*SOV157	2	81A F-9	A	0.75 GLV	SOA	C	C	C	PI-T LJ-R FE-Q ST-Q(C) FS-Q	GVRR-1 GVRR-3	PI-T LJ-R FE-Q ST-Q(C) FS-Q	



REPORT: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: MAIN STEAM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2MSS*AOV6A	1	IE C-7	A	26.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 MSS-CS-1	FE-CS ST-CS(C) FS-CS PI-T LJ-R PE-Q	
2MSS*AOV6B	1	IE C-9	A	26.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 MSS-CS-1	FE-CS ST-CS(C) FS-CS PI-T LJ-R PE-Q	
2MSS*AOV6C	1	IE C-3	A	26.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 MSS-CS-1	FE-CS ST-CS(C) FS-CS PI-T LJ-R PE-Q	
2MSS*AOV6D	1	IE C-5	A	26.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 MSS-CS-1	FE-CS ST-CS(C) FS-CS PI-T LJ-R PE-Q	
2MSS*AOV7A	1	IF B-5	A	26.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 MSS-CS-1	FE-CS ST-CS(C) FS-CS PI-T LJ-R PE-Q	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: MAIN STEAM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2MSS*AOV7B	1	IF B-7	A	26.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 MSS-CS-1	FE-CS ST-CS(C) FS-CS PI-T LJ-R PE-Q	
2MSS*AOV7C	1	IF B-2	A	26.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 MSS-CS-1	FE-CS ST-CS(C) FS-CS PI-T LJ-R PE-Q	
2MSS*AOV7D	1	IF B-3	A	26.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 MSS-CS-1	FE-CS ST-CS(C) FS-CS PI-T LJ-R PE-Q	
2MSS*EFV1A	2	1J H-7	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV1B	2	1J H-9	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: MAIN STEAM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2MSS*EFV1C	2	1J H-2	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV1D	2	1J H-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV2A	2	1J H-7	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV2B	2	1J H-10	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV2C	2	1J H-2	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: MAIN STEAM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2MSS*EFV2D	2	1J H-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV3A	2	1J H-7	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV3B	2	1J H-10	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV3C	2	1J H-3	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV3D	2	1J H-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: MAIN STEAM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2MSS*EFV4A	2	1J H-8	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV4B	2	1J H-10	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV4C	2	1J H-3	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*EFV4D	2	1J H-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2MSS*MOV111	1	1E G-2	A	6.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: MAIN STEAM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2MSS*MOV112	1	1E H-2	A	6.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	
2MSS*MOV118	1	1A J-3	B	2.00 GLV	MOA	C	OC	AI	PI-T		PI-T	
2MSS*MOV119	1	1A J-4	B	2.00 GLV	MOA	C	OC	AI	PI-T		PI-T	
2MSS*MOV208	1	1F F-9	A	2.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(C) PI-T LJ-R	
2MSS*PSV120	1	1A D-4	AC	8.00 REV	SEA AOA	C	O	C	RT-P3 LK-T VT-P3 PI-P3 AO-P3	NOTE 1	RT-P1,VT-P1 FE-P1,AO-P1 FS-P1 PI-P1 LK-P1 ST-P1(O)	NOTES 2,3



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: MAIN STEAM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2MSS*PSV121 (ADS)	1	1A E-4	AC	8.00 REV	AOA SEA	C	O	C	RT-P3 FE-Q FS-Q PI-T, LK-T VT-P3 AO-P3	NOTE 1	RT-P1, VT-P1 FE-R, AO-P1 FS-R PI-R LK-P1 ST-P1(O)	NOTES 2, 3
2MSS*PSV122	1	1A G-4	AC	8.00 REV	SEA AOA	C	O	C	RT-P3 LK-T VT-P3 PI-P3 AO-P3	NOTE 1	RT-P1, VT-P1 FE-P1, AO-P1 FS-P1 PI-P1 LK-P1 ST-P1(O)	NOTES 2, 3
2MSS*PSV123	1	1A H-4	AC	8.00 REV	SEA AOA	C	O	C	RT-P3 LK-T VT-P3 PI-P3 AO-P3	NOTE 1	RT-P1, VT-P1 FE-P1, AO-P1 FS-P1 PI-P1 LK-P1 ST-P1(O)	NOTES 2, 3
2MSS*PSV124	1	1B D-4	AC	8.00 REV	SEA AOA	C	O	C	RT-P3 LK-T VT-P3 PI-P3 AO-P3	NOTE 1	RT-P1, VT-P1 FE-P1, AO-P1 FS-P1 PI-P1 LK-P1 ST-P1(O)	NOTES 2, 3
2MSS*PSV125	1	1B E-4	AC	8.00 REV	SEA AOA	C	O	C	RT-P3 LK-T VT-P3 PI-P3 AO-P3	NOTE 1	RT-P1, VT-P1 FE-P1, AO-P1 FS-P1 PI-P1 LK-P1 ST-P1(O)	NOTES 2, 3



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: MAIN STEAM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2MSS*PSV126 (ADS)	1	1B G-4	AC	8.00 REV	AOA SEA	C	O	C	RT-P3 FE-Q FS-Q PI-T LK-T, VT-P3 AO-P3	NOTE 1	RT-P1, VT-P1 FE-R, AO-P1 FS-R PI-R LK-P1 ST-P1(O)	NOTES 2, 3
2MSS*PSV127 (ADS)	1	1B H-4	AC	8.00 REV	AOA SEA	C	O	C	RT-P3 FE-Q FS-Q PI-T LK-T, VT-P3 AO-P3	NOTE 1	RT-P1, VT-P1 FE-R, AO-P1 FS-R PI-R LK-P1 ST-P1(O)	NOTES 2, 3
2MSS*PSV128	1	1B I-4	AC	8.00 REV	SEA AOA	C	O	C	RT-P3 LK-T VT-P3 AO-P3	NOTE 1	RT-P1, VT-P1 FE-P1, AO-P1 FS-P1 PI-P1 LK-P1 ST-P1(O)	NOTES 2, 3
2MSS*PSV129 (ADS)	1	1C D-4	AC	8.00 REV	AOA SEA	C	O	C	RT-P3 FE-Q FS-Q PI-T LK-T, VT-P3 AO-P3	NOTE 1	RT-P1, VT-P1 FE-R, AO-P1 FS-R PI-R LK-P1 ST-P1(O)	NOTES 2, 3
2MSS*PSV130 (ADS)	1	1C E-4	AC	8.00 REV	AOA SEA	C	O	C	RT-P3 FE-Q FS-Q PI-T LK-T, VT-P3 AO-P3	NOTE 1	RT-P1, VT-P1 FE-R, AO-P1 FS-R PI-R LK-P1 ST-P1(O)	NOTES 2, 3



SYSTEM: MAIN STEAM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2MSS*PSV131	1	1C G-4	AC	8.00 REV	SEA AOA	C	O	C	RT-P3 LK-T VT-P3 PI-P3 AO-P3	NOTE 1	RT-P1,VT-P1 FE-P1,AO-P1 FS-P1 PI-P1 LK-P1 ST-P1(O)	NOTES 2,3
2MSS*PSV132	1	1C H-4	AC	8.00 REV	SEA AOA	C	O	C	RT-P3 LK-T VT-P3 PI-P3 AO-P3	NOTE 1	RT-P1,VT-P1 FE-P1,AO-P1 FS-P1 PI-P1 LK-P1 ST-P1(O)	NOTES 2,3
2MSS*PSV133	1	1C J-4	AC	8.00 REV	SEA AOA	C	O	C	RT-P3 LK-T VT-P3 PI-P3 AO-P3	NOTE 1	RT-P1,VT-P1 FE-P1,AO-P1 FS-P1 PI-P1 LK-P1 ST-P1(O)	NOTES 2,3
2MSS*PSV134 (ADS)	1	1D D-5	AC	8.00 REV	AOA SEA	C	O	C	RT-P3 FE-Q FS-Q PI-T LK-T,VT-P3 AO-P3	NOTE 1	RT-P1,VT-P1 FE-R,AO-P1 FS-R PI-R LK-P1 ST-P1(O)	NOTES 2,3
2MSS*PSV135	1	1D F-5	AC	8.00 REV	SEA AOA	C	O	C	RT-P3 LK-T VT-P3 PI-P3 AO-P3	NOTE 1	RT-P1,VT-P1 FE-P1,AO-P1 FS-P1 PI-P1 LK-P1 ST-P1(O)	NOTES 2,3





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: MAIN STEAM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2MSS*PSV136	1	1D H-5	AC	8.00 REV	SEA AOA	C	O	C	RT-P3 LK-T VT-P3 PI-P3 AO-P3	NOTE 1	RT-P1,VT-P1 FE-P1,AO-P1 FS-P1 PI-P1 LK-P1 ST-P1(O)	NOTES 2,3
2MSS*PSV137 (ADS)	1	1D J-5	AC	8.00 REV	AOA SEA	C	O	C	RT-P3 FE-Q FS-Q PI-T LK-T,VT-P3 AO-P3	NOTE 1	RT-P1,VT-P1 FE-R,AO-P1 FS-R PI-R LK-P1 ST-P1(O)	NOTES 2,3
2MSS*SOV97A	2	1E J-8	A	0.75 GLV	SOV	C	C	C	LJ-R PI-T	GVRR-1	LJ-R PI-T	
2MSS*SOV97B	2	1E J-10	A	0.75 GLV	SOV	C	C	C	LJ-R PI-T	GVRR-1	LJ-R PI-T	
2MSS*SOV97C	2	1E J-4	A	0.75 GLV	SOV	C	C	C	LJ-R PI-T	GVRR-1	LJ-R PI-T	



REPORT: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: MAIN STEAM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2MSS*SOV97D	2	1E J-6	A	0.75 GLV	SOV	C	C	C	LJ-R PI-T	GVRR-1	LJ-R PI-T	



## NOTES FOR "MSS" VALVE TABLE

SYSTEM : MAIN STEAM

NOTE NUMBER :

1. NMP2 IST Program Plan adopts ASME XI Code Case N415 which states that the requirements for acceptance testing, replacement, repair and maintenance, periodic testing, and test frequency contained in ANSI/ASME OM-1-1981 may be used as alternate requirements for preservice tests, replacement, repair and maintenance, inservice tests, and test frequency for safety valves, relief valves (including vacuum relief valves), and rupture disks (non-reclosing pressure relief devices) of Subsection IWV of Section XI, Division 1.
2. Balance of Plant Test Activities - The function of the power (relief mode) operator on the 18 SRV's is to mitigate the consequences of a transient (e.g., to help reduce challenges to the safety (spring) mode of the SRV's). This function is not a safety function and, therefore, does not require testing under ASME XI rules.

Exercise, Fail-Safe, Position Indication Tests - For the non-ads SRV's, the exercise, fail-safe, and position indication tests are considered balance-of-plant activities. For the seven ads SRV's, the exercise, fail-safe, and position indication tests are considered ASME XI activities.

Stroke Time - Each SRV has three solenoids. The stroke time test using the "C" solenoid, which is connected to the lower pressure accumulator tank, is considered as a balance of plant test activity.

The ads function, which is safety-related, uses the "A" and "B" solenoids. These solenoids are connected to the higher pressure nitrogen accumulators. There are no stroke time requirements for the ads function.

3. Per NMP2 USAR Section 5.2.2.10, during every refueling outage, at least 50% of the installed valves will be tested. This frequency exceeds the frequency of OM-1-1981. All valves will be reset to plus or minus 1% of safety set pressure listed in the Tech. Specs. A value of plus or minus 3% of the safety set pressure will be used to determine an increase in the test sample size.

The sample size shall be as identified in ANSI/ASME OM-1 and delineated in the NMP2 testing schedule of Tech. Support, IST Department.



### Notes for "MSS" Valve Table (Cont'd.)

SRV's are removed and shipped offsite for as found testing, preventative maintenance, and as left testing. Since the SRV equipment mark number designates a particular location and setpoint, and the fact that there are several spares for each setpoint, the SRV serial number will be used to track component performance and location.

- A. Test for valves shall be in accordance with sequences stipulated in the OM-1 standard.
- B. The seven ads valves are tested in place (each refueling) as per NMP2 Technical Specifications 3.4.5.e(b) and NMP2 USAR Section 6.3.4.2. These tests demonstrate the exercise, position indication, and fail-safe test at a refueling outage interval.
- C. SRV's that have been maintained or refurbished in place, or removed for maintenance and testing, then reinstalled, shall be remotely activated at reduced system pressure to verify open and close capability (exercise test and position indication test) as per OM-1-1981, Item 3.4.1.1(d). These tests also demonstrate the fail-safe test.
- D. Position indication tests use SRV discharge line temperature monitoring system, control room indicating lights, acoustic monitoring system, measured steam flow from vessel, and the main steam bypass valve percent open.





## COLD SHUTDOWN TEST JUSTIFICATION MSS-CS-1

System : Main Steam

Valve(s) : 2MSS\*AOV6A,B,C,D  
2MSS\*AOV7A,B,C,D

Category : A

Class : 1

Function : Main steam line inside and outside primary containment isolation valves

Quarterly Test Requirements : Exercise, stroke time, and fail-safe test

Cold Shutdown Test Justification : To exercise these valves during power operation would require a significant reduction in power and placing the plant in an abnormal operating condition with one main steam line isolated to the turbine. Also, recent industry information indicates that closing these valves with high steam flow in the line may be a large contributing factor in observed seat degradation.

Quarterly Partial Stroke Testing : Valves are partial stroke tested during normal plant operation.

Cold Shutdown Testing : Exercise, stroke time, and fail-safe test.



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: NEUTRON MONITORING SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2NMS*SOV1A	2	EM 38A F-7	A	1.50 BLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q LJ-R PI-T	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q LJ-R PI-T	SEE NOTE 1
2NMS*SOV1B	2	EM 38A F-7	A	1.50 BLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q LJ-R PI-T	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q LJ-R PI-T	SEE NOTE 2
2NMS*SOV1C	2	EM 38A G-6	A	1.50 BLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q LJ-R PI-T	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q LJ-R PI-T	SEE NOTE 3
2NMS*SOV1D	2	EM 38A G-6	A	1.50 BLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q LJ-R PI-T	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q LJ-R PI-T	SEE NOTE 4
2NMS*SOV1E	2	EM 38A H-5	A	1.50 BLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q LJ-R PI-T	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q LJ-R PI-T	SEE NOTE 5



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: NEUTRON MONITORING SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2NMS*VEX1A	2	EM 38A F-7	D	1.50 EXV	EXA	O	C	N	EX-P6		EX-P6	SEE NOTE 1
2NMS*VEX1B	2	EM 38A F-7	D	1.50 EXV	EXA	O	C	N	EX-P6		EX-P6	SEE NOTE 2
2NMS*VEX1C	2	EM 38A G-6	D	1.50 EXV	EXA	O	C	N	EX-P6		EX-P6	SEE NOTE 3
2NMS*VEX1D	2	EM 38A G-6	D	1.50 EXV	EXA	O	C	N	EX-P6		EX-P6	SEE NOTE 3
2NMS*VEX1E	2	EM 38A H-5	D	1.50 EXV	EXA	O	C	N	EX-P6		EX-P6	SEE NOTE 5



**NOTES FOR "NMS" VALVE TABLE**

**SYSTEM : NEUTRON MONITOR**

**NOTE NUMBER :**

1. Part of G.E. C51-J004A Transversing Incore Probe (TIP) System
2. Part of G.E. C51-J004B Transversing Incore Probe (TIP) System
3. Part of G.E. C51-J004C Transversing Incore Probe (TIP) System
4. Part of G.E. C51-J004D Transversing Incore Probe (TIP) System
5. Part of G.E. C51-J004E Transversing Incore Probe (TIP) System





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR RECIRC. SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RCS*EFV44A	2	29B D-2	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV44B	2	29C D-2	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV45A	2	29B D-3	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV45B	2	29C D-3	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV46A	2	29B D-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR RECIRC. SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RCS*EFV46B	2	29C D-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV47A	2	29B D-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV47B	2	29C D-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV48A	2	29B D-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV48B	2	29C D-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR RECIRC. SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RCS*EFV52A	2	29B I-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV52B	2	29C I-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV53A	2	29B H-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV53B	2	29C H-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV62A	2	29B J-9	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR RECIRC. SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RCS*EFV62B	2	29C J-9	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV63A	2	29B J-9	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*EFV63B	2	29C J-9	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RCS*SOV104	2	29B H-3	A	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	
2RCS*SOV105	2	29B H-3	A	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T LJ-R	GVRR-1 GVRR-3	FE-Q ST-Q(C) FS-Q PI-T LJ-R	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR RECIRC. SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RCS*SOV65A	2	29A A-6	B	2.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV65B	2	29A G-6	B	2.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV66A	2	29A C-6	B	1.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV66B	2	29A H-6	B	1.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV67A	2	29A D-6	B	2.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR RECIRC. SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RCS*SOV67B	2	29A J-6	B	2.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV68A	2	29A E-6	B	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV68B	2	29A K-6	B	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV79A	2	29A A-6	B	2.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV79B	2	29A G-6	B	2.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	

7

REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR RECIRC. SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RCS*SOV80A	2	29A C-6	B	1.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV80B	2	29A I-6	B	1.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV81A	2	29A D-6	B	2.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV81B	2	29A I-6	B	2.00 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*SOV82A	2	29A E-6	B	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR RECIRC. SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RCS*SOV82B	2	29A K-6	B	0.75 GLV	SOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T	RCS-CS-1	FE-CS ST-CS(C) FS-CS PI-T	
2RCS*V59A	2	29B H-10	AC	0.75 CHV	SEA	O	C	-	FE-Q(R) LJ-R	GVRR-1 RCS-VRR-1	FE-R(R) LJ-R	
2RCS*V59B	2	29C G-10	AC	0.75 CHV	SEA	O	C	-	FE-Q(R) LJ-R	GVRR-1 RCS-VRR-1	FE-R(R) LJ-R	
2RCS*V60A	2	29B F-10	AC	0.75 CHV	SEA	O	C	-	FE-Q(R) LJ-R	GVRR-1 RCS-VRR-1	FE-R(R) LJ-R	
2RCS*V60B	2	29C F-10	AC	0.75 CHV	SEA	O	C	-	FE-Q(R) LJ-R	GVRR-1 RCS-VRR-1	FE-R(R) LJ-R	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR RECIRC. SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RCS*V90A	2	29B G-10	AC	0.75 CHV	SEA	0	C	-	FE-Q(R) LJ-R	GVRR-1 RCS-VRR-1	FE-R(R) LJ-R	
2RCS*V90B	2	29C G-10	AC	0.75 CHV	SEA	0	C	-	FE-Q(R) LJ-R	GVRR-1 RCS-VRR-1	FE-R(R) LJ-R	



## COLD SHUTDOWN TEST JUSTIFICATION RCS-CS-1

System : Reactor Coolant (Recirculation)

Valve(s) : 2RCS\*SOV65A,B  
2RCS\*SOV66A,B  
2RCS\*SOV67A,B  
2RCS\*SOV68A,B  
2RCS\*SOV79A,B  
2RCS\*SOV80A,B  
2RCS\*SOV81A,B  
2RCS\*SOV82A,B

Category : A

Class : 2

Function : Primary containment block valves in the reactor coolant recirculation flow control valve hydraulic lines.

Quarterly Test Requirements : Exercise, stroke time, and fail-safe test

Cold Shutdown Test Justification : These valves control the flow of hydraulic fluid to the reactor coolant recirculation flow control valves, and their positions control the positions of the flow control valves. Exercising these valves during reactor coolant recirculation flow would cause disturbance of normal loop flow and could result in adverse plant operation; e.g., changes in reactivity, power transient, and a possible reactor scram.

Quarterly Partial Stroke Testing : The operating circuitry of these valves only permits full stroke operation.

Cold Shutdown Testing : Exercise, stroke time, and fail-safe test



RELIEF REQUEST NO. RCS-VRR-1

System : Reactor Coolant (recirculation)

Valve(s) : 2RCS\*V59A,B  
2RCS\*V60A,B  
2RCS\*V90A,B

Category : AC

Class : 2

Function : Reactor coolant recirculation pump seal water, primary containment isolation valves

Quarterly Test Requirement : verification of reverse flow closure

Basis for Relief : Verifying reverse flow closure would require stopping seal water flow to the pumps. The interruption of seal water flow, even for a short time, can result in extensive damage to the pump seals. Due to system design, the only method available to verify reverse flow closure is by valve leak testing during Appendix J, Type C testing at refueling.

Alternate Testing : Reverse flow closure will be verified during Appendix J, Type C testing during refueling outages.



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV123	2	30C C-10	A	2.00 DIV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q LJ-R PI-T	GVRR-1	FE-Q ST-Q(C) FS-Q LJ-R PI-T	SEE NOTE 3
2RDS*AOV124	2	30C F-5	A	1.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q LJ-R PI-T	GVRR-1	FE-Q ST-Q(C) FS-Q LJ-R PI-T	SEE NOTE 4
2RDS*AOV126, 02-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 02-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 02-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 02-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 02-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 02-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 02-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 06-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 06-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 06-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 06-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 06-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 06-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10



REPORT : 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 06-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 06-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 06-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 10-11	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 10-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10



REPORT : 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 10-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 10-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 10-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 10-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 10-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10





REPORT: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 10-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 10-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 10-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 10-51	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10
2RDS*AOV126, 14-07	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 14-11	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 14-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 14-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 14-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 14-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 14-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 14-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 14-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 14-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 14-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 14-51	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 14-55	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 18-03	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 18-07	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 18-11	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 18-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 18-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 18-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 18-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 18-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

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 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 18-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126; 18-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 18-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 18-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 18-51	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 18-55	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 18-59	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-03	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-07	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-11	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 22-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 22-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-51	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 22-55	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 22-59	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-03	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-07	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-11	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 26-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 26-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-51	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 26-55	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 26-59	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-03	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-07	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-11	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

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 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 30-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

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NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 30-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rθ ST-Rθ(O) FS-Rθ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rθ ST-Rθ(O) FS-Rθ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rθ ST-Rθ(O) FS-Rθ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rθ ST-Rθ(O) FS-Rθ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-51	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rθ ST-Rθ(O) FS-Rθ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 30-55	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 30-59	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-03	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-07	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-11	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10





SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 34-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 34-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-51	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 34-55	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 34-59	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-03	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-07	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-11	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 38-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 38-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-51	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 38-55	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 38-59	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-03	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-07	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-11	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 42-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 42-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-51	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 42-55	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 42-59	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 46-07	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 46-11	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 46-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 46-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 46-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 46-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 46-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 46-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 46-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 46-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 46-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 46-51	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 46-55	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 50-11	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 50-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 50-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 50-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 50-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 50-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 50-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 50-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 50-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 50-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 50-51	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 54-15	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 54-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 54-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 54-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 54-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 54-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 54-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 54-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 54-47	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 58-19	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 58-23	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 58-27	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 58-31	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 58-35	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV126, 58-39	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV126, 58-43	2	30B D-8	B	0.50 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 5,10
2RDS*AOV127, 02-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 02-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 02-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 02-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 02-35	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 02-39	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 02-43	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 06-15	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 06-19	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 06-23	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 06-27	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 06-31	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 06-35	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 06-39	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 06-43	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 06-47	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 10-11	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 10-15	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 10-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 10-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 10-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 10-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 10-35	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 10-39	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 10-43	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 10-47	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 10-51	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 14-07	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 14-11	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 14-15	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 14-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 14-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 14-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 14-31	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 14-35	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 14-39	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 14-43	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 14-47	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 14-51	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 14-55	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-03	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-07	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-11	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 18-15	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 18-35	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-39	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-43	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-47	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-51	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 18-55	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rθ ST-Rθ(O) FS-Rθ PI-T	SEE NOTES 6,10
2RDS*AOV127, 18-59	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rθ ST-Rθ(O) FS-Rθ PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-03	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rθ ST-Rθ(O) FS-Rθ PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-07	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rθ ST-Rθ(O) FS-Rθ PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-11	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rθ ST-Rθ(O) FS-Rθ PI-T	SEE NOTES 6,10



4





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 22-15	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 22-35	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-39	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-43	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-47	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-51	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 22-55	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 22-59	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-03	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-07	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-11	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 26-15	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 26-35	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-39	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-43	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-47	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-51	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG. PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 26-55	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 26-59	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-03	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-07	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-11	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 30-15	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 30-35	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-39	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-43	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-47	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-51	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 30-55	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 30-59	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-03	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-07	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-11	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 34-15	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 34-35	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-39	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-43	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-47	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-51	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 34-55	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 34-59	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-03	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-07	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-11	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 38-15	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 38-35	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-39	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-43	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-47	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-51	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 38-55	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 38-59	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-03	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-07	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-11	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-Rê ST-Rê(O) FS-Rê PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 42-15	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 42-35	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-39	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-43	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-47	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-51	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 42-55	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 42-59	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 46-07	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 46-11	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 46-15	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

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 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 46-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 46-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 46-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 46-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 46-35	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN. COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 46-39	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 46-43	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 46-47	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 46-51	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 46-55	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 50-11	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 50-15	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 50-19	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 50-23	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 50-27	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 50-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 50-35	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 50-39	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 50-43	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 50-47	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 50-51	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 54-15	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 54-19	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 54-23	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 54-27	2	30B B-9	B	0.75 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 54-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 54-35	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 54-39	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 54-43	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 54-47	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 58-19	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 58-23	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 58-27	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 58-31	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 58-35	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*AOV127, 58-39	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV127, 58-43	2	30B B-9	B	0.75 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T	RDS-VRR-1	FE-R@ ST-R@ (O) FS-R@ PI-T	SEE NOTES 6,10
2RDS*AOV130	2	30C B-10	A	2.00 DIV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q LJ-R PI-T	GVRR-1	FE-Q ST-Q(C) FS-Q LJ-R PI-T	SEE NOTE 7
2RDS*AOV132	2	30C F-4	A	1.00 GLV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q LJ-R PI-T	GVRR-1	FE-Q ST-Q(C) FS-Q LJ-R PI-T	SEE NOTE 8
2RDS*V114, 02-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 02-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 02-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 02-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 02-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 02-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 02-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 06-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 06-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 06-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 06-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 06-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 06-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 06-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 06-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 06-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 10-11	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 10-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 10-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 10-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 10-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 10-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 10-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 10-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 10-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 10-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 10-51	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 14-07	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 14-11	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 14-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 14-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 14-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 14-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 14-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 14-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 14-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 14-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 14-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 14-51	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 14-55	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-03	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 18-07	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-11	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 18-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 18-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-51	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-55	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 18-59	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-03	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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						NRM	SAF	FAL				
2RDS*V114, 22-07	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-11	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 22-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 22-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-51	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-55	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 22-59	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 26-03	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 26-07	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 26-11	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 26-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 26-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 26-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 26-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 26-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 26-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 26-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 26-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 26-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 26-51	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 26-55	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 26-59	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-03	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 30-07	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-11	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10





SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 30-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 30-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-51	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-55	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 30-59	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 34-03	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 34-07	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 34-11	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 34-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 34-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 34-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 34-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 34-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 34-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 34-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 34-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10



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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 34-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 34-51	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 34-55	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 34-59	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 38-03	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 38-07	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 38-11	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 38-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 38-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 38-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 38-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 38-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 38-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 38-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 38-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



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SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 38-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rê(F)	SEE NOTES 1,10
2RDS*V114, 38-51	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rê(F)	SEE NOTES 1,10
2RDS*V114, 38-55	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rê(F)	SEE NOTES 1,10
2RDS*V114, 38-59	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rê(F)	SEE NOTES 1,10
2RDS*V114, 42-03	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rê(F)	SEE NOTES 1,10

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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 42-07	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 42-11	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 42-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 42-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 42-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 42-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 42-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 42-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 42-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 42-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10

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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 42-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 42-51	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 42-55	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 42-59	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 46-07	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10

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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 46-11	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 46-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 46-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 46-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 46-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 46-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 46-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 46-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 46-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 46-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 46-51	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 46-55	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 50-11	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 50-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 50-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 50-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 50-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 50-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 50-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 50-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 50-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 50-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 50-51	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 54-15	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 54-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10

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REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 54-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 54-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 54-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 54-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 54-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 54-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 54-47	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 58-19	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 58-23	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10
2RDS*V114, 58-27	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-R@ (F)	SEE NOTES 1,10



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REPORT DATE 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V114, 58-31	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 58-35	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 58-39	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V114, 58-43	2	30B B-9	C	0.75 CHV	SEA	C	O	-	FE-Q(F)	RDS-VRR-1	FE-Rθ(F)	SEE NOTES 1,10
2RDS*V115, 02-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



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SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 02-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 02-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 02-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 02-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 02-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG. PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 02-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 06-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 06-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 06-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 06-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 06-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 06-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 06-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 06-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 06-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 10-11	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 10-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 10-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 10-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 10-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 10-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 10-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 10-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 10-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 10-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 10-51	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 14-07	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 14-11	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 14-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 14-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 14-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 14-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 14-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 14-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 14-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 14-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 14-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 14-51	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 14-55	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 18-03	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 18-07	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 18-11	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 18-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 18-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 18-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 18-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 18-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 18-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 18-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTES 2,11
2RDS*V115, 18-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 18-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 18-51	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 18-55	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 18-59	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-03	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 22-07	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-11	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 22-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 22-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-51	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-55	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 22-59	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-03	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 26-07	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-11	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 26-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 26-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-51	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-55	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 26-59	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-03	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 30-07	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-11	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 30-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 30-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-51	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-55	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 30-59	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-03	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 34-07	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-11	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 34-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 34-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-51	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-55	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 34-59	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-03	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

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VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 38-07	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-11	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 38-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 38-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-51	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-55	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 38-59	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-03	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 42-07	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-11	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 42-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 42-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-51	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-55	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 42-59	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 46-07	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 46-11	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 46-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 46-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 46-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 46-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 46-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 46-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 46-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 46-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 46-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 46-51	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 46-55	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 50-11	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 50-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 50-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 50-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 50-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 50-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 50-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 50-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 50-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 50-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 50-51	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 54-15	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 54-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 54-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 54-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 54-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 54-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 54-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 54-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 54-47	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 58-19	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 58-23	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 58-27	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V115, 58-31	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 58-35	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 58-39	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V115, 58-43	2	30B D-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-2	FE-R(R)	SEE NOTE 2
2RDS*V138, 02-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 02-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 02-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 02-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 02-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 02-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 02-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 06-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 06-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 06-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 06-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 06-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 06-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 06-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 06-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 06-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 10-11	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 10-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 10-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 10-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 10-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 10-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 10-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 10-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 10-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 10-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 10-51	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 14-07	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 14-11	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 14-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 14-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 14-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 14-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 14-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 14-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 14-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 14-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 14-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 14-51	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 14-55	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-03	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 18-07	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-11	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 18-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 18-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-51	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-55	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 18-59	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-03	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 22-07	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-11	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 22-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 22-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-51	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-55	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 22-59	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-03	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 26-07	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-11	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 26-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 26-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-51	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-55	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 26-59	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-03	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 30-07	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-11	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 30-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 30-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-51	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-55	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 30-59	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-03	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 34-07	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-11	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 34-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 34-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-51	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-55	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 34-59	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-03	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 38-07	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-11	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 38-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 38-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-51	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-55	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 38-59	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-03	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 42-07	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-11	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 42-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 42-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-51	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-55	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 42-59	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 46-07	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 46-11	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 46-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 46-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 46-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 46-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 46-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 46-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 46-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 46-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 46-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 46-51	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 46-55	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 50-11	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 50-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 50-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 50-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 50-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 50-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 50-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 50-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 50-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 50-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 50-51	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 54-15	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 54-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 54-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 54-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 54-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 54-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 54-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 54-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 54-47	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 58-19	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 58-23	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 58-27	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: CRD HYDRAULIC SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RDS*V138, 58-31	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 58-35	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 58-39	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9
2RDS*V138, 58-43	2	30B C-7	C	0.50 CHV	SEA	OC	C	-	FE-Q(R)	RDS-VRR-1	FE-R(R)	SEE NOTE 9



NOTES FOR "RDS" VALVE TABLE

SYSTEM : CONTROL ROD DRIVE HYDRAULIC

NOTE NUMBER :

1. G.E. Valve 114 on P&ID
2. G.E. Valve 115 on P&ID
3. G.E. Valve 123 on P&ID
4. G.E. Valve 124 on P&ID
5. G.E. Valve 126 on P&ID
6. G.E. Valve 127 on P&ID
7. G.E. Valve 130 on P&ID
8. G.E. Valve 132 on P&ID
9. G.E. Valve 138 on P&ID
10. Test frequency in accordance with Technical Specification 4.1.3.2



RELIEF REQUEST NO. RDS-VRR-1

System : Control Rod Drive Hydraulic

Valve(s) : 2RDS\*AOV126 (all 185 HCU's)  
2RDS\*AOV127 (all 185 HCU's)  
2RDS\*V114 (all 185 HCU's)  
2RDS\*V138 (all 185 HCU's)

Category : B (2RDS\*AOV126, 127)  
C (2RDS\*V114)  
C (2RDS\*V138)

Class : 2

Function : CRD scram valves

Quarterly Test Requirement : Exercise, stroke time, and fail-safe test (2RDS\*AOV126, 127); verify forward flow operability (2RDS\*V114); verify reverse flow operability (2RDS\*V138)

Basis for Relief : Individual valve testing is not possible without casing a control rod scram with a resulting change in core reactivity. Quarterly testing of these valves would violate plant technical specifications which govern the methods and frequency of reactivity changes. Technical specifications surveillance (T.S. 4.1.3.2) requires periodic individual control rod scram insertion time measurements with reactor coolant pressure greater than, or equal to, 950 psig and the control rod drive pumps isolated from the accumulators. Since AOV's 126, 127, and check valve V114 must open during a control rod scram, failure of these valves to operate or degradation in the AOV's cycling times would be indicated by larger insertion time for the control rod. The ability to achieve normal control rod motion verifies the cooling water check valve, V138, has moved to its safety function position. Control rods that are fully inserted are determined to be in their safety function position and are not required to be tested except by Technical Specifications 4.1.3.2.a (100% of all individual control rod Scram Valves prior to thermal power exceeding 40% of rated thermal power following core alterations (i.e., refueling outage) or after a reactor shutdown that is greater than 120 days).



Relief Request No. RDS-VRR-1 (Cont'd.)

Alternate  
Testing

: The control rod scram insertion time testing required by Technical Specification 4.1.3.2 will be performed in lieu of the Section XI testing as permitted by NRC Generic Letter 89-04, Attachment 1, Item 7. At least 10% of the control rods will be tested on a rotating basis for every 120 days of operation. All rods will be tested prior to exceeding 40% power after refueling or a reactor shutdown greater than 120 days. The ability to achieve normal control rod motion for cooling water check valve, V138, associated with fully inserted control rods will be tested at refueling outages.





RELIEF REQUEST NO. RDS-VRR-2

System : Control Rod Drive Hydraulic

Valve(s) : 2RDS\*V115 (all 185 HCU's)

Category : C

Class : 2

Function : Reactor shutdown

Quarterly Test Requirement : Verify reverse flow operability

Basis for Relief : The hydraulic control units (HCU) are integrally designed systems (GE) for controlling rod drive movements. The HCU charging water lines cannot be individually isolated due to the piping configuration (lack of individual block valves and test connections). Quarterly testing is impractical to perform since the control rod drive system is in continuous operation. Cold shutdown testing of these valves is undesirable since testing these valves requires depressurizing and venting the entire charging water header which results in gas intrusion. This reverse flow test cannot be readily performed during each cold shutdown because the control rod drive pumps supply seal water to the reactor recirculation pumps (normally one running during cold shutdown). Therefore, both quarterly and cold shutdown testing of these valves is impractical.

Alternate Testing : The scram accumulator reverse flow operability test shall be performed at least once per refueling outage to verify the reverse flow closure of the charging water valves. The source of approval for this request for relief and alternate test method is as authorized by NRC Generic Letter 89-4, Attachment 1, Item 7.



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*AOV150	2	31E B-8	C	16.00 TCV	SEA	C	OC	-	FE-Q(F&R)		FE-Q(F&R)	SEE NOTE 1
2RHS*AOV16A	1	31A F-5	AC	12.00 TCV	SEA	C	OC	-	FE-Q(F&R) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS(F&R) LJ-R PI-T LK-R	SEE NOTE 2
2RHS*AOV16B	1	31A J-6	AC	12.00 TCV	SEA	C	OC	-	FE-Q(F&R) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS(F&R) LJ-R PI-T LK-R	SEE NOTE 2
2RHS*AOV16C	1	31A J-4	AC	12.00 TCV	SEA	C	OC	-	FE-Q(F&R) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS(F&R) LJ-R PI-T LK-R	SEE NOTE 2
2RHS*AOV39A	1	31A F-9	AC	12.00 TCV	SEA	C	OC	-	FE-Q(F&R) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS(F&R) LJ-R PI-T LK-R	SEE NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

NMP2-IST-001  
Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*AOV39B	1	31A K-9	AC	12.00 TCV	SEA	C	OC	-	FE-Q(F&R) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS(F&R) LJ-R PI-T LK-R	SEE NOTE 2
2RHS*EFV5	2	31B B-8	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RHS*EFV6	2	31B B-7	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RHS*EFV7	2	31A C-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2RHS*FV38A	2	31C B-6	B	14.00 GLV	MOA	C	CO	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*FV38B	2	31B J-9	B	14.00 GLV	MOA	C	CO	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*FV38C	2	31B H-7	B	14.00 GLV	MOA	C	CO	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*MOV104	1	31B D-2	A	6.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS ST-CS(O&C) LJ-R PI-T LK-R	SEE NOTE 2
2RHS*MOV112	1	31A H-10	A	20.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS ST-CS(O&C) LJ-R PI-T LK-R	SEE NOTE 2
2RHS*MOV113	1	31A E-10	A	20.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS ST-CS(O&C) LJ-R PI-T LK-R	SEE NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

NMP2-IST-001  
Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*MOV115	2	31E C-8	B	16.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*MOV116	3	31E B-9	B	16.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*MOV12A	2	31D I-6	B	18.00 BFV	MOA	0	0	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2RHS*MOV12B	2	31E D-7	B	18.00 BFV	MOA	0	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*MOV142	2	31F I-3	A	3.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LK-R		FE-Q ST-Q(C) PI-T LK-R	SEE NOTE 3



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
Rev. 4

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*MOV149	2	31F I-3	A	3.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LK-R		FE-Q ST-Q(C) PI-T LK-R	SEE NOTE 3
2RHS*MOV15A	2	31A B-2	A	16.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2RHS*MOV15B	2	31B F-4	A	16.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2RHS*MOV1A	2	31C F-9	A	24.00 BFV	MOA	0	OC	AI	FE-Q ST-Q(O&C) LJ-R LK-R PI-T	GVRR-1	FE-Q ST-Q(O&C) PI-T LK-R	NOTE 3
2RHS*MOV1B	2	31F F-2	A	24.00 BFV	MOA	0	OC	AI	FE-Q ST-Q(O&C) LJ-R LK-R PI-T	GVRR-1	FE-Q ST-Q(O&C) PI-T LK-R	NOTE 3



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*MOV1C	2	31G D-10	A	24.00 BFV	MOA	0	OC	AI	FE-Q ST-Q(O&C) LJ-R LK-R PI-T	GVRR-1	FE-Q ST-Q(O&C) PI-T LK-R	NOTE 3
2RHS*MOV22A	2	31D G-9	A	8.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LK-R	RHS-CS-3	FE-CS ST-CS(C) PI-T LK-R	SEE NOTE 2
2RHS*MOV22B	2	31G K-2	A	8.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LK-R	RHS-CS-3	FE-CS ST-CS(C) PI-T LK-R	SEE NOTE 2
2RHS*MOV23A	2	31D D-9	A	8.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LK-R	RHS-CS-1	FE-CS ST-CS(C) PI-T LK-R	SEE NOTE 2
2RHS*MOV23B	2	31G J-4	A	8.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LK-R	RHS-CS-1	FE-CS ST-CS(C) PI-T LK-R	SEE NOTE 2



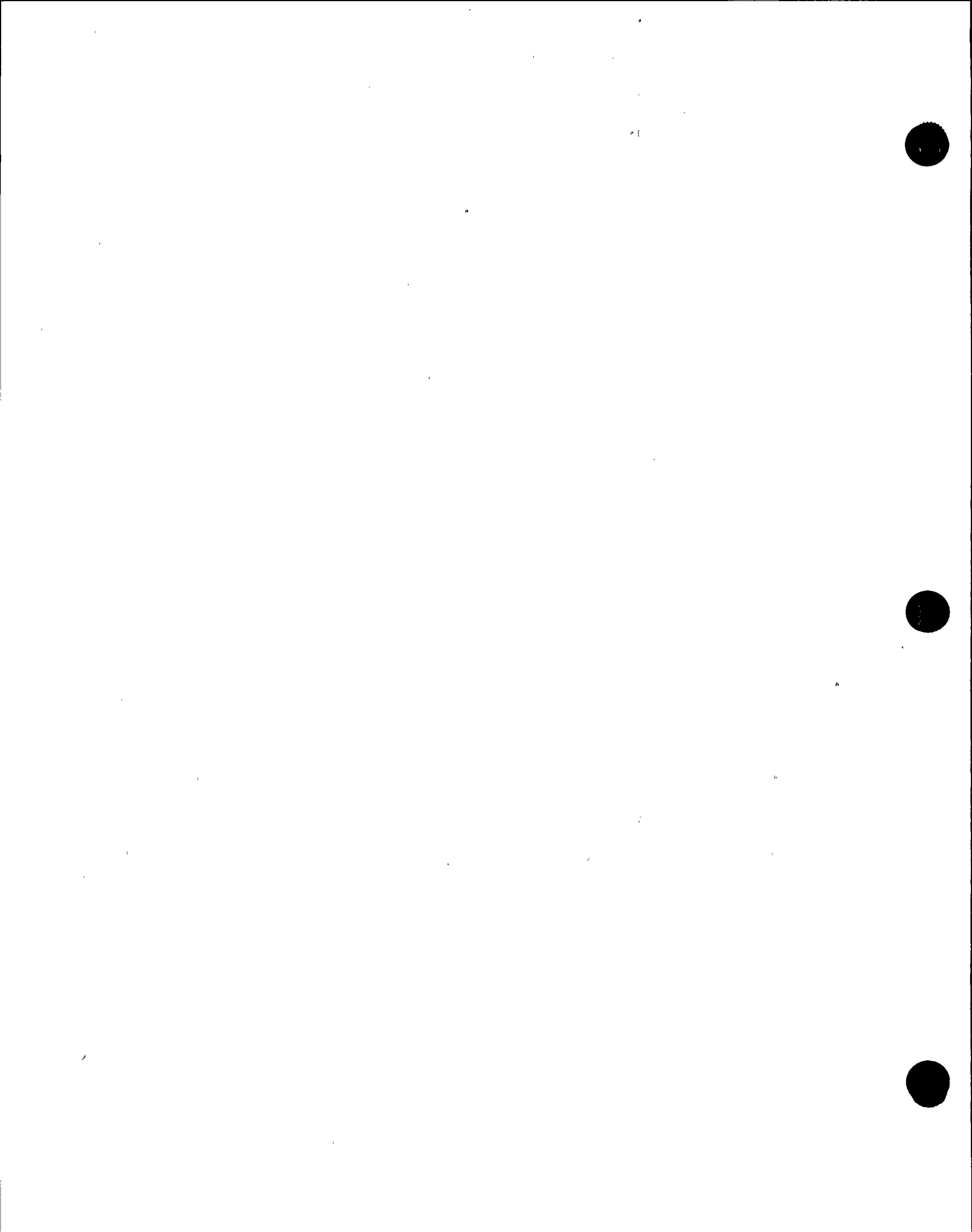
REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*MOV24A	1	31A D-5	A	12.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS ST-CS(O&C) LJ-R PI-T LK-R	SEE NOTE 2
2RHS*MOV24B	1	31B D-7	A	12.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS ST-CS(O&C) LJ-R PI-T LK-R	SEE NOTE 2
2RHS*MOV24C	1	31B C-5	A	12.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS ST-CS(O&C) LJ-R PI-T LK-R	NOTE 2
2RHS*MOV25A	2	31A E-2	A	16.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2RHS*MOV25B	2	31B B-3	A	16.00 GTV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*MOV26A	2	31D D-3	A	1.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2RHS*MOV26B	2	31E H-5	A	1.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2RHS*MOV27A	2	31D D-2	A	1.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2RHS*MOV27B	2	31E H-4	A	1.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2RHS*MOV2A	2	31F H-9	B	18.00 BFV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*MOV2B	2	31F G-3	B	18.00 BFV	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*MOV30A	2	31C D-6	A	18.00 BFV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2RHS*MOV30B	2	31C J-7	A	18.00 BFV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T LJ-R	GVRR-1	FE-Q ST-Q(O&C) PI-T LJ-R	
2RHS*MOV32A	2	31D J-4	B	4.00 GTV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T		FE-Q ST-Q(C) PI-T	
2RHS*MOV32B	2	31D H-2	B	4.00 GTV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T		FE-Q ST-Q(C) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*MOV33A	2	31C C-2	A	4.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T	GVRR-1	FE-Q ST-Q(O&C) LJ-R PI-T	
2RHS*MOV33B	2	31C I-3	A	4.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T	GVRR-1	FE-Q ST-Q(O&C) LJ-R PI-T	
2RHS*MOV37A	2	31D H-5	B	4.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T		FE-Q ST-Q(C) PI-T	
2RHS*MOV37B	2	31D G-2	B	4.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T		FE-Q ST-Q(C) PI-T	
2RHS*MOV40A	1	31A D-9	A	12.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS ST-CS(O&C) LJ-R PI-T LK-R	NOTE 2



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*MOV40B	1	31B C-10	A	12.00 GLV	MOA	C	OC	AI	FE-Q ST-Q(O&C) LJ-R PI-T LK-R	GVRR-1 RHS-CS-1	FE-CS ST-CS(O&C) LJ-R PI-T LK-R	NOTE 2
2RHS*MOV4A	2	31F E-5	B	6.00 GTV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*MOV4B	2	31E D-4	B	6.00 GTV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*MOV4C	2	31B I-9	B	6.00 GTV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*MOV67A	1	31A F-10	A	2.00 GLV	MOA	C	C	AI	LJ-R PI-T FE-Q ST-Q(C) LK-R	GVRR-1 RHS-CS-1	LJ-R FE-CS ST-CS(C) PI-T LK-R	NOTE 2





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*MOV67B	1	31A K-10	A	2.00 GLV	MOA	C	C	AI	LJ-R PI-T FE-Q ST-Q(C) LK-R	GVRR-1 RHS-CS-1	LJ-R FE-CS ST-CS(C) PI-T LK-R	NOTE 2
2RHS*MOV80A	2	31D H-9	A	1.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LK-R	RHS-CS-3	FE-CS ST-CS(C) PI-T LK-R	NOTE 2
2RHS*MOV80B	2	31G K-3	A	1.00 GLV	MOA	C	C	AI	FE-Q ST-Q(C) PI-T LK-R	RHS-CS-3	FE-CS ST-CS(C) PI-T LK-R	NOTE 2
2RHS*MOV8A	2	31F B-3	B	18.00 BFV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*MOV8B	2	31E B-5	B	18.00 BFV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

NMP2-IST-001

Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*MOV9A	2	31F M-2	B	18.00 BFV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*MOV9B	2	31E C-5	B	18.00 BFV	MOA	O	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2RHS*RV108	2	31D J-2	C	3.00 REV	SEA	C	O		RT-P2 VT-P2 LA-P2 BD-P2		RT-P2 VT-P2 LA-P2 BD-P2	
2RHS*RV110	2	31F I-8	C	0.75 REV	SEA	C	O		RT-P2 VT-P2 LA-P2 BD-P2		RT-P2 VT-P2 LA-P2 BD-P2	
2RHS*RV152	2	31A G-10	AC	0.75 REV	SEA	C	O		RT-P2 VT-P2 LA-P2 LJ-R	GVR-1	RT-P2 VT-P2 LA-P2 LJ-R	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION		ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF FAL				
2RHS*RV20A	2	31C A-5	C	0.75 REV	SEA	C	O	RT-P2 VT-P2 LA-P2 BD-P2		RT-P2 VT-P2 LA-P2 BD-P2	
2RHS*RV20B	2	31B F-10	C	0.75 REV	SEA	C	O	RT-P2 VT-P2 LA-P2 BD-P2		RT-P2 VT-P2 LA-P2 BD-P2	
2RHS*RV20C	2	31B H-6	C	0.75 REV	SEA	C	O	RT-P2 VT-P2 LA-P2 BD-P2		RT-P2 VT-P2 LA-P2 BD-P2	
2RHS*RVV35A	2	31C D-4	AC	10.00 VRV	SEA	C	OC	RT-P2 FE-P2 (O&C) LJ-R	GVRR-1	RT-P2 FE-P2 (O&C)	
2RHS*RVV35B	2	31C I-5	AC	10.00 VRV	SEA	C	OC	RT-P2 FE-P2 (O&C) LJ-R	GVRR-1	RT-P2 FE-P2 (O&C)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
Rev. 4

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*RVV36A	2	31C D-4	AC	10.00 VRV	SEA	C	OC		LJ-R RT-P2 FE-P2 (O&C)	GVRR-1	RT-P2 FE-P2 (O&C)	
2RHS*RVV36B	2	31C J-5	AC	10.00 VRV	SEA	C	OC		RT-P2 FE-P2 (O&C) LJ-R	GVRR-1	RT-P2 FE-P2 (O&C)	
2RHS*SOV126	3	31E C-9	B	0.75 GLV	SOA	O	C		FE-Q ST-Q(C) PI-T		FE-Q ST-Q(C) PI-T	
2RHS*SOV35A	2	31D G-7	A	0.75 GLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LK-R		FE-Q ST-Q(C) FS-Q PI-T LK-R	NOTE 3
2RHS*SOV35B	2	31E D-8	A	0.75 GLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LK-R		FE-Q ST-Q(C) FS-Q PI-T LK-R	NOTE 3





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*SOV36A	2	31D G-6	A	0.75 GLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LK-R		FE-Q ST-Q(C) FS-Q PI-T LK-R	NOTE 3
2RHS*SOV36B	2	31E D-7	A	0.75 GLV	SOA	C	C	C	FE-Q ST-Q(C) FS-Q PI-T LK-R		FE-Q ST-Q(C) FS-Q PI-T LK-R	NOTE 3
2RHS*SOV70A	2	31D E-10	B	1.00 GLV	SOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	
2RHS*SOV70B	2	31E J-5	B	1.00 GLV	SOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T	GVR-3	FE-Q ST-Q(C) FS-Q PI-T	
2RHS*SOV71A	2	31D E-10	B	1.00 GLV	SOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*SOV71B	2	31E J-6	B	1.00 GLV	SOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T	GVRR-3	FE-Q ST-Q(C) FS-Q PI-T	
2RHS*SOV72A	2	31D G-9	B	1.00 GLV	SOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	
2RHS*SOV72B	2	31G J-5	B	1.00 GLV	SOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T	GVRR-3	FE-Q ST-Q(C) FS-Q PI-T	
2RHS*SOV73A	2	31D G-9	B	1.00 GLV	SOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T	GVRR-3	FE-Q ST-Q(C) FS-Q PI-T	
2RHS*SOV73B	2	31G J-5	B	1.00 GLV	SOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T	GVRR-3	FE-Q ST-Q(C) FS-Q PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*SV34A	2	31D B-2	C	4.00 REV	SEA	C	OC		RT-P2 VT-P2 LA-P2 BD-P2 LJ-R	GVRR-1	RT-P2 VT-P2 LA-P2 BD-P2	
2RHS*SV34B	2	31E I-4	C	4.00 REV	SEA	C	OC		RT-P2 VT-P2 LA-P2 BD-P2 LJ-R	GVRR-1	RT-P2 VT-P2 LA-P2 BD-P2	
2RHS*SV62A	2	31D A-2	C	6.00 REV	SEA	C	OC		RT-P2 VT-P2 LA-P2 BD-P2 LJ-R	GVRR-1	RT-P2 VT-P2 LA-P2 BD-P2	
2RHS*SV62B	2	31E J-3	C	6.00 REV	SEA	C	OC		RT-P2 VT-P2 LA-P2 BD-P2 LJ-R	GVRR-1	RT-P2 VT-P2 LA-P2 BD-P2	
2RHS*V1	2	31F C-5	C	18.00 GHV	SEA	C	O -		FE-Q(F)		FE-Q(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

NMP2-IST-001

Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*V143	2	31B C-2	C	6.00 CHV	SEA	C	O	-	FE-Q(F)	RHS-CS-2	FE-CS(F)	
2RHS*V17	2	31G D-3	BC	2.00 SCV	SEA	O	C	-	FE-Q(R)	GVRR-4	FE-Q(R)	
2RHS*V18	2	31G D-9	C	2.00 CHV	SEA	OC	C	-	FE-Q(R)	GVRR-4	FE-Q(R)	
2RHS*V192	2	31E J-2	A	0.75 GLV	MAA	LC	LC	AI	LJ-R	GVRR-1	LJ-R	
2RHS*V2	2	31E C-4	C	18.00 CHV	SEA	C	O	-	FE-Q(F)		FE-Q(F)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: RESIDUAL HEAT REMOVAL SYSTEM

NMP2-IST-001  
Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2RHS*V3	2	31G B-3	C	18.00 CHV	SEA	C	O	-	FE-Q(F)		FE-Q(F)	
2RHS*V47	2	31F C-4	BC	2.00 SCV	SEA	O	C	-	FE-Q(R)	GVRR-4	FE-Q(R)	
2RHS*V48	2	31F D-4	C	2.00 CHV	SEA	OC	C	-	FE-Q(R)	GVRR-4	FE-Q(R)	
2RHS*V60	2	31G E-2	C	2.00 CHV	SEA	OC	C	-	FE-Q(R)	GVRR-4	FE-Q(R)	
2RHS*V61	2	31G E-1	BC	2.00 SCV	SEA	O	C	-	FE-Q(R)	GVRR-4	FE-Q(R)	



**NOTES FOR "RHS" VALVE TABLE**

**SYSTEM : RESIDUAL HEAT REMOVAL (RHR)**

**NOTE NUMBER :**

- (1) Hookup air for ASME Section XI testing
- (2) Pressure Isolation Valve testing required by Technical Specification 3.4.3.2.d and 4.4.3.2.2.
- (3) Hydraulic leak testing required by Technical Specification 4.6.1.2.d.3.



## COLD SHUTDOWN TEST JUSTIFICATION RHS-CS-1

System : Residual Heat Removal

Valve(s) : 2RHS\*AOV16A,B,C  
2RHS\*AOV39A,B  
2RHS\*MOV23A,B  
2RHS\*MOV24A,B,C  
2RHS\*MOV40A,B  
2RHS\*MOV67A,B  
2RHS\*MOV104  
2RHS\*MOV112  
2RHS\*MOV113

Category : A (MOV's)  
AC (AOV's)

Class : 1

Function : Reactor coolant system pressure isolation valves and RHS system high to low pressure isolations

Quarterly Test Requirements : Exercise and stroke time (all MOV's); verify forward and reverse flow operability (all AOV's)

Cold Shutdown Test Justification : The MOV's are interlocked to prevent them from opening when the reactor is at a higher pressure than the design of the low pressure RHS piping. The AOV's are testable check valves that can only be operated either by using system flow, which requires opening of the associated interlocked MOV, or by using the air test operator when differential pressure across the valve is zero. Since, during power operation, reactor pressure is greater than the interlock value and reactor pressure is imposed on the check valve disk, causing a large differential pressure across the valve, testing is impossible during normal power operations.

Quarterly Partial Stroke Testing : Partial stroke exercising results in the same situation as full stroke exercising.

Cold Shutdown Testing : All required quarterly testing listed above will be performed.



## COLD SHUTDOWN TEST JUSTIFICATION RHS-CS-2

System : Residual Heat Removal

Valve(s) : 2RHS\*V143

Category : C

Class : 1

Function : RHR system reactor vessel head spray line check valve

Quarterly Test Requirements : Verify forward flow operability

Cold Shutdown Test Justification : Verifying forward flow operability of this valve would require the flow of water from the RHS to ICS through valve 2RHS\*MOV104. Due to an interlock on 2RHS\*MOV104, which is not permitted to be defeated by Technical Specifications, testing can be accomplished only at cold shutdown.

Quarterly Partial Stroke Testing : Partial stroking would require the same operation conditions as full stroke exercising.

Cold Shutdown Testing : Verify forward flow operability





### COLD SHUTDOWN TEST JUSTIFICATION RHS-CS-3

System : Residual Heat Removal

Valve(s) : 2RHS\*MOV22A,B  
2RHS\*MOV80A,B

Category : A

Class : 2

Function : ICS to RHS cross tie for Steam Condensing Mode

Quarterly Test Requirements : Exercise and stroke time (MOV's); exercise, stroke time, fail-safe test (PV's)

Cold Shutdown Test Justification : These valves provide isolation between the ICS piping which is at reactor pressure and the low pressure RHS piping. Opening of these valves during power operation could overpressurize the low pressure RHS piping and result in an intersystem LOCA.

Quarterly Partial Stroke Testing : Partial stroke exercising results in the same situation as full stroke exercising.

Cold Shutdown Testing : All required quarterly testing listed above will be performed.



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE AIR

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SAS*HCV160	2	19J H-6	A	2.00 GLV	MAA	C	C	-	LJ-R PI-T	GVRR-1	LJ-R PI-T	
2SAS*HCV161	2	19J H-4	A	2.00 GLV	MAA	C	C	-	LJ-R PI-T	GVRR-1	LJ-R PI-T	
2SAS*HCV162	2	19J I-6	A	2.00 GLV	MAA	C	C	-	LJ-R PI-T	GVRR-1	LJ-R PI-T	
2SAS*HCV163	2	19J I-4	A	2.00 GLV	MAA	C	C	-	LJ-R PI-T	GVRR-1	LJ-R PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 SYSTEM: FUEL POOL COOLING AND CLEANUP

NMP2-IST-001  
 Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SFC*AOV153	3	38A I-10	B	8.00 BFV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	SEE NOTE 1
2SFC*AOV154	3	38A J-10	B	8.00 BFV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	SEE NOTE 1
2SFC*AOV19A	3	38C D-7	B	8.00 BFV	AOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	SEE NOTE 1
2SFC*AOV19B	3	38C D-6	B	8.00 BFV	AOA	OC	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	SEE NOTE 1
2SFC*HV17A	3	38B J-3	B	8.00 BFV	AOA	OC	O	O	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	SEE NOTE 1



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: FUEL POOL COOLING AND CLEANUP

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SFC*HV17B	3	38A J-10	B	8.00 BFV	AOA	OC	O	O	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	SEE NOTE 1
2SFC*HV18A	3	38B J-4	B	8.00 BFV	AOA	OC	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T		FE-Q ST-Q(O&C) FS-Q PI-T	SEE NOTE 1
2SFC*HV18B	3	38A H-10	B	8.00 BFV	AOA	OC	OC	C	FE-Q ST-Q(O&C) FS-Q PI-T		FE-Q ST-Q(O&C) FS-Q PI-T	SEE NOTE 1
2SFC*HV37A	3	38C B-3	B	8.00 BFV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	SEE NOTE 1
2SFC*HV37B	3	38C C-3	B	8.00 BFV	AOA	O	C	C	FE-Q ST-Q(C) FS-Q PI-T		FE-Q ST-Q(C) FS-Q PI-T	SEE NOTE 1





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 SYSTEM: FUEL POOL COOLING AND CLEANUP

NMP2-IST-001  
 Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SFC*HV6A	3	B8A J-10	B	10.00 BFV	AOA	O	C	C	FE-Q FS-Q PI-T ST-Q(C)		FE-Q FS-Q PI-T ST-Q(C)	
2SFC*HV6B	3	38A J-5	B	10.00 BFV	AOA	O	C	C	FE-Q FS-Q PI-T ST-Q(C)		FE-Q FS-Q PI-T ST-Q(C)	
2SFC*V11	3	38B C-10	C	8.00 CHV	SEA	OC	O	-	FE-Q		FE-Q(F)	SEE NOTE 1
2SFC*V203	2	38C F-7	A	1.50 GLV	MAA	C	C	-	LJ-R	GVERR-1	LJ-R	SEE NOTE 1
2SFC*V204	2	38C F-8	A	1.50 GLV	MAA	C	C	-	LJ-R	GVERR-1	LJ-R	SEE NOTE 1



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: FUEL POOL COOLING AND CLEANUP

NMP2-IST-001  
Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SFC*V20A	3	38B G-3	C	8.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	SEE NOTE 1
2SFC*V20B	3	38A F-10	C	8.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	SEE NOTE 1
2SFC*V9	3	38A D-1	C	8.00 CHV	SEA	OC	O	-	FE-Q(F)		FE-Q(F)	SEE NOTE 1



NOTES FOR "SFC" VALVE TABLE

SYSTEM : SPENT FUEL POOL COOLING AND CLEANUP

NOTE NUMBER :

1. Commence testing when system is placed in service.



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: STANDBY LIQUID CONTROL

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SLS*MOV1A	2	36A E-5	B	3.00 GLV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SLS*MOV1B	2	36A E-9	B	3.00 GLV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SLS*MOV5A	1	36A K-3	AC	2.00 SCV	MOA	OC	OC	-	FE-Q(F&R) ST-Q(C) PI-T LJ-R	GVRR-1 SLS-VRR-1	FE-R(F&R) ST-Q(C) PI-T LJ-R	SEE NOTES 1, 2
2SLS*MOV5B	1	36A J-3	AC	2.00 SCV	MOA	OC	OC	-	FE-Q(F&R) ST-Q(C) PI-T LJ-R	GVRR-1 SLS-VRR-1	FE-R(F&R) ST-Q(C) PI-T LJ-R	SEE NOTES 1, 2
2SLS*RV2A	2	36A H-4	C	0.75 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: STANDBY LIQUID CONTROL

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SLS*RV2B	2	36A H-7	C	0.75 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2SLS*V10	1	36A J-1	AC	2.00 CHV	SEA	C	OC	-	FE-Q (F&R) LJ-R	GVRR-1 SLS-CS-1 SLS-VRR-1	FE-CS (R) FE-R (F) LJ-R	
2SLS*V12	2	36A H-5	C	1.50 CHV	SEA	C	OC	-	FE-Q (F&R)		FE-Q (F&R)	
2SLS*V14	2	36A H-8	C	1.50 CHV	SEA	C	OC	-	FE-Q (F&R)		FE-Q (F&R)	
2SLS*VEX3A	1	36A J-5	D	1.50 EXV	EXA	C	O	-	EX-P5		EX-P5	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
Rev. 4

SYSTEM: STANDBY LIQUID CONTROL

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION NRM SAF FAL	ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
2SLS*VEX3B	1	36A J-8	D	1.50 EXV	EXA	C O -	EX-P5		EX-P5	

III - SLS - 3



NOTES FOR "SLS" VALVE TABLE

SYSTEM : STANDBY LIQUID CONTROL (SLC)

NOTE NUMBER :

1. Reference Technical Specification 4.1.5.d.1
2. In addition to the quarterly stroke time test which operates the stem (shaft), reverse flow closure will be verified during App. J, Type C testing during refueling outages.



## COLD SHUTDOWN JUSTIFICATION SLS-CS-1

System : Standby Liquid Control

Valve(s) : 2SLS\*V10

Category : A,C

Class : 1

Function : SLS injection inside containment isolation valve

Quarterly Test Requirements : Verify reverse flow operability

Basis for Relief : This check valve is located inside the drywell and has full reactor pressure imposed on the seat in the reverse direction during reactor operation. The only method to quarterly test this valve in the reverse direction during reactor operation is by opening the upstream test connection valves 2SLS\*V30, 31 located outside the drywell. However, if the check valve is failed in the open position, opening the test connection valves would result in water at full reactor pressure and temperature (approximately 1000 psig and 500°F) issuing from the test connection. Therefore, opening the test connection valves poses a safety hazard to operations personnel and possible radiation release to the secondary containment.

During cold shutdown, testing using the above method is possible because adequate head pressure exists with the reactor depressurized and vessel water level in normal band.

Alternate Testing : Reverse flow exercising of this valve will be performed during cold shutdown.





**RELIEF REQUEST NO. SLS-VRR-1**

**System** : Standby Liquid Control

**Valve(s)** : 2SLS\*MOV5A,B  
2SLS\*V10

**Category** : AC

**Class** : 1

**Function** : SLS injection inside and outside containment isolation valves

**Quarterly Test Requirement** : Verify forward flow operability

**Basis for Relief** : Verifying forward flow operability during any operational mode requires firing a squib valve and injecting water into the reactor coolant system, using the SLS pumps. Injecting water during normal operation could result in adverse plant conditions, such as changes in reactivity, power transients, thermal shock-induced cracking, and a possible plant trip.

Since the firing of the squib valve destroys the valve internals, it should be minimized. Therefore, forward flow testing of the check valves will be performed at refueling during the SLS injection test required by Technical Specifications. The technical specification testing further reduces the firing of the squib valves by alternating the firing between squib valves 2SLS\*VEX3A&B.

**Alternate Testing** : Forward flow operability will be verified at refueling during the SLS injection test.



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

NMP2-IST-001  
Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SVV*RVV101	3	1A D-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV102	3	1C D-5	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV103	3	1D D-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV104	3	1B D-5	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV105	3	1C F-5	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

NMP2-IST-001  
Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SVV*RVV106	3	1D F-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV107	3	1A F-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV108	3	1B E-5	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV109	3	1C G-5	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV110	3	1D H-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

NMP2-IST-001  
Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SVV*RVV111	3	1A G-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV112	3	1B G-5	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P (O&C)	
2SVV*RVV113	3	1C I-5	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV114	3	1D J-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV115	3	1A I-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

NMP2-IST-001  
Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SVV*RVV116	3	1B H-5	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV117	3	1C J-5	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV118	3	1B J-5	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV201	3	1A D-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV202	3	1C D-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 SYSTEM: MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

NMP2-IST-001  
 Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SVV*RVV203	3	1D D-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV204	3	1B D-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV205	3	1C F-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV206	3	1D F-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV207	3	1A F-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 SYSTEM: MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

NMP2-IST-001  
 Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION NRM SAF FAL	ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
2SVV*RVV208	3	1B E-6	C	10.00 VRV	SEA	C O -	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV209	3	1C G-6	C	10.00 VRV	SEA	C O -	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV210	3	1D H-6	C	10.00 VRV	SEA	C O -	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV211	3	1A G-6	C	10.00 VRV	SEA	C O -	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV212	3	1B G-6	C	10.00 VRV	SEA	C O -	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 SYSTEM: MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

NMP2-IST-001  
 Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SVV*RVV213	3	1C I-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV214	3	1D J-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV215	3	1A I-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV216	3	1B H-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV217	3	1C J-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
Rev. 4

SYSTEM: MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SVV*RVV218	3	1B J-6	C	10.00 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV301	3	1A C-6	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV302	3	1C D-5	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV303	3	1D E-6	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV304	3	1B D-5	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

NMP2-IST-001  
Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SVV*RVV305	3	1C F-5	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV306	3	1D G-6	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV307	3	1A F-6	C	2.50 VRV	SEA	C	O	-	VT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV308	3	1B E-6	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV309	3	1C G-5	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	



1

REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 SYSTEM: MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

NMP2-IST-001  
 Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SVV*RVV310	3	1D I-6	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV311	3	1A G-6	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV312	3	1B G-5	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV313	3	1C I-5	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV314	3	1D K-6	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

NMP2-IST-001  
Rev. 4

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SVV*RVV315	3	1A I-6	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV316	3	1B I-5	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV317	3	1C J-5	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	
2SVV*RVV318	3	1B J-5	C	2.50 VRV	SEA	C	O	-	RT-P2 FE-P2 (O&C)		RT-P2 FE-P2 (O&C)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*AOV154A	3	11F H-9	B	1.50 PGV	AOA	OC	0	0	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV154B	3	11F D-8	B	1.50 PGV	AOA	OC	0	0	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV20A	3	11C F-4	B	1.50 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV20B	3	11P G-7	B	2.00 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV22A	3	11C H-3	B	1.50 GTV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*AOV22B	3	11P J-10	B	2.00 GTV	AOA	C	O	O	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV571	3	11F E-4	B	1.50 PGV	AOA	OC	O	O	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV572	3	11P A-5	B	2.50 PGV	AOA	OC	O	O	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV573	3	11F J-9	B	2.00 PGV	AOA	OC	O	O	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV574	3	11F F-9	B	2.00 PGV	AOA	OC	O	O	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	



FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*AOV581	3	11F B-9	B	1.50 PGV	AOA	OC	0	0	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV78A	3	11Q E-9	B	2.00 PGV	AOA	OC	0	0	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV78B	3	11Q J-9	B	2.00 PGV	AOA	OC	0	0	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV97A	3	11E D-6	B	6.00 PGV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	
2SWP*AOV97B	3	11F I-5	B	6.00 PGV	AOA	C	0	0	FE-Q ST-Q(O) FS-Q PI-T		FE-Q ST-Q(O) FS-Q PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*FV47A	3	11H G-7	B	30.00	HOA	O	C	C	FE-Q ST-Q(C) FS-Q	SWP-CS-3	FE-CS ST-CS(C) FS-CS	
2SWP*FV47B	3	11H E-7	B	30.00	HOA	O	C	C	FE-Q ST-Q(C) FS-Q	SWP-CS-3	FE-CS ST-CS(C) FS-CS	
2SWP*FV54A	3	11H G-8	B	30.00	HOA	O	C	C	FE-Q ST-Q(C) FS-Q	SWP-CS-3	FE-CS ST-CS(C) FS-CS	
2SWP*FV54B	3	11H D-9	B	30.00	HOA	O	C	C	FE-Q ST-Q(C) FS-Q	SWP-CS-3	FE-CS ST-CS(C) FS-CS	
2SWP*MOV15A	3	11P G-2	B	2.50 GTV	MOA	O	O	AI	PI-T		PI-T	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT..	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*MOV15B	3	11G B-7	B	2.50 GTV	MOA	O	O	AI	PI-T		PI-T	
2SWP*MOV17A	3	11P J-3	B	12.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SWP*MOV17B	3	11G I-8	B	12.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SWP*MOV18A	3	11P J-4	B	12.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SWP*MOV18B	3	11G I-9	B	12.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*MOV19A	3	11D B-3	B	20.00 BFV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T	SWP-CS-1	FE-CS ST-CS(C) PI-T	
2SWP*MOV19B	3	11D C-3	B	20.00 BFV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T	SWP-CS-1	FE-CS ST-CS(C) PI-T	
2SWP*MOV1A	3	11B E-5	B	4.00 BALL	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2SWP*MOV1B	3	11A J-2	B	4.00 BALL	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-2		FE-Q ST-Q(O&C) PI-T	
2SWP*MOV1C	3	11A J-7	B	4.00 BALL	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*MOV1D	3	11A F-2	B	4.00 BALL	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2SWP*MOV1E	3	11B K-5	B	4.00 BALL	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2SWP*MOV1F	3	11A F-7	B	4.00 BALL	MOA	C	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2SWP*MOV21A	3	11E H-3	B	3.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SWP*MOV21B	3	11F H-2	B	3.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*MOV30A	3	11H D-4	B	72.00 GTV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T		FE-Q ST-Q(C) PI-T	
2SWP*MOV30B	3	11H D-4	B	72.00 GTV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T		FE-Q ST-Q(C) PI-T	
2SWP*MOV33A	3	11C K-6	B	18.00 BFV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SWP*MOV33B	3	11P E-10	B	18.00 BFV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SWP*MOV3A	3	11B K-3	B	30.00 BFV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T	SWP-CS-1	FE-CS ST-CS(C) PI-T	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*MOV3B	3	11B K-3	B	30.00 BFV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T	SWP-CS-1	FE-CS ST-CS(C) PI-T	
2SWP*MOV50A	3	11A H-6	B	36.00 BFV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T	SWP-CS-1	FE-CS ST-CS(C) PI-T	
2SWP*MOV50B	3	11A G-6	B	36.00 BFV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T	SWP-CS-1	FE-CS ST-CS(C) PI-T	
2SWP*MOV599	3	11H B-8	B	30.00 BFV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T	SWP-CS-3	FE-CS ST-CS(C) PI-T	
2SWP*MOV66A	3	11L B-6	B	8.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*MOV66B	3	11L E-6	B	8.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SWP*MOV67A	3	11J I-2	B	4.00 GTV	MOA	OC	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SWP*MOV67B	3	11J D-2	B	4.00 GTV	MOA	OC	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SWP*MOV74A	3	11B E-3	B	18.00 BFV	MOA	OC	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2SWP*MOV74B	3	11A J-2	B	18.00 BFV	MOA	OC	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*MOV74C	3	11A J-7	B	18.00 BFV	MOA	OC	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2SWP*MOV74D	3	11A E-2	B	18.00 BFV	MOA	OC	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2SWP*MOV74E	3	11B J-4	B	18.00 BFV	MOA	OC	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2SWP*MOV74F	3	11A E-7	B	18.00 BFV	MOA	OC	OC	AI	FE-Q ST-Q(O&C) PI-T		FE-Q ST-Q(O&C) PI-T	
2SWP*MOV77A	3	11H D-3	B	54.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T	SWP-VRR-1	PI-T FE-R ST-R(O)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*MOV77B	3	11H D-3	B	54.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T	SWP-VRR-1	PI-T FE-R ST-R(O)	
2SWP*MOV90A	3	11C K-4	B	18.00 BFV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		PI-T FE-Q ST-Q(O)	
2SWP*MOV90B	3	11P E-8	B	18.00 BFV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		PI-T FE-Q ST-Q(O)	
2SWP*MOV93A	3	11H J-10	B	24.00 BFV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T	SWP-CS-3	FE-CS ST-CS(C) PI-T	
2SWP*MOV93B	3	11H H-10	B	24.00 BFV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T	SWP-CS-3	FE-CS ST-CS(C) PI-T	





SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*MOV94A	3	11L I-8	B	8.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SWP*MOV94B	3	11L H-7	B	8.00 GTV	MOA	C	O	AI	FE-Q ST-Q(O) PI-T		FE-Q ST-Q(O) PI-T	
2SWP*MOV95A	3	11L C-2	B	8.00 GTV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T		FE-Q ST-Q(C) PI-T	
2SWP*MOV95B	3	11L F-3	B	8.00 GTV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T		FE-Q ST-Q(C) PI-T	
2SWP*RV34A	3	11C L-5	C	4.00 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*RV34B	3	11P E-8	C	4.00 REV	SEA	C	O	-	RT-P2 VT-P2 LA-P2		RT-P2 VT-P2 LA-P2	
2SWP*V1002A	3	11E H-3	C	3.00 CHV	SEA	C	O	-	FE-Q(F)	SWP-VRR-2	DI-R(F) PE-Q(F)	
2SWP*V1002B	3	11F H-2	C	3.00 CHV	SEA	C	O	-	FE-Q(F)	SWP-VRR-2	DI-R(F) PE-Q(F)	
2SWP*V1024	3	11E I-2	C	6.00 CHV	SEA	O	OC	-	FE-Q(F&R)		FE-Q(F) FE-Q(R)	
2SWP*V1025	3	11F F-1	C	6.00 CHV	SEA	O	OC	-	FE-Q(F&R)		FE-Q(F) FE-Q(R)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*V1027	3	11A B-7	C	30.00 CHV	SEA	OC	OC	-	FE-Q(F&R)	SWP-CS-2 SWP-CS-4	PE-Q(F) FE-CS(F&R)	
2SWP*V1A	3	11B E-8	C	18.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2SWP*V1B	3	11A J-5	C	18.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2SWP*V1C	3	11A J-9	C	18.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2SWP*V1D	3	11A F-4	C	18.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*V1E	3	11B J-8	C	18.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2SWP*V1F	3	11A F-10	C	18.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2SWP*V201A	3	11F B-6	C	1.25 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2SWP*V201B	3	11F B-6	C	1.25 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2SWP*V202A	3	11B C-2	C	30.00 CHV	SEA	OC	OC	-	FE-Q(F&R)	SWP-CS-2 SWP-CS-4	PE-Q(F) FE-CS(F&R)	





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*V202B	3	11H C-8	C	30.00 CHV	SEA	0	C	-	FE-Q(R)	SWP-CS-3	FE-CS(R)	
2SWP*V219A	3	11J I-3	C	4.00 CHV	SEA	OC	O	-	FE-Q(F)		FE-Q(F)	
2SWP*V219B	3	11J D-3	C	4.00 CHV	SEA	OC	O	-	FE-Q(F)		FE-Q(F)	
2SWP*V240A	3	11J J-5	C	4.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2SWP*V240B	3	11J E-5	C	4.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*V259	3	11L I-3	C	8.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2SWP*V260	3	11L I-3	C	8.00 CHV	SEA	OC	OC	-	FE-Q(F&R)		FE-Q(F&R)	
2SWP*V75A	3	11L D-7	C	8.00 CHV	SEA	C	O	-	FE-Q(F)		FE-Q(F)	
2SWP*V75B	3	11L E-7	C	8.00 CHV	SEA	C	O	-	FE-Q(F)		FE-Q(F)	
2SWP*V800A	3	11F B-9	C	1.25 CHV	SEA	OC	O	-	FE-Q(F)		FE-Q(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: SERVICE WATER

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2SWP*V800B	3	11F C-9	C	1.25 CHV	SEA	OC	0	-	FE-Q(F)		FE-Q(F)	
2SWP*V802A	3	11F B-10	C	3.00 CHV	SEA	OC	0	-	FE-Q(F)		FE-Q(F)	
2SWP*V802B	3	11F C-10	C	3.00 CHV	SEA	OC	0	-	FE-Q(F)		FE-Q(F)	



## COLD SHUTDOWN TEST JUSTIFICATION SWP-CS-1

System : Service Water

Valve(s) : 2SWP\*MOV3A,B  
2SWP\*MOV19A,B  
2SWP\*MOV50A,B

Category : B

Class : 3

Function : Safety-related to non-safety-related isolation valves (2SWP\*MOV3A, 3B, 19A, 19B); SWP header cross connect valves (2SWP\*MOV50A, B)

Quarterly Test Requirements : Exercise and stroke time

Cold Shutdown Test Justification : The closing of 2SWP\*MOV19A, B, with the subsequent failure of either valve to reopen, would result in a complete loss of cooling to CCP heat exchangers. This loss of cooling would result in loss of cooling to the reactor recirculation pumps and to the drywell cooling system.

The closing of 2SWP\*MOV3A, B, with subsequent failure of either valve to reopen, would result in a complete loss of cooling to the CCS heat exchangers which cool the turbine generator. This loss of cooling water would require tripping the turbine generator and a subsequent power transient that could result in a reactor trip.

Both CCP and CCS are supplied from the A SWP division. Since they are the largest SWP loads during normal plant operation, a large load imbalance exists between the A&B SWP divisions. To ensure adequate cooling is available to these loads, SWP is operated cross-connected; therefore, the closing of either 2SWP\*MOV50A or 50B would result in a significant reduction in cooling water to both CCP and CCS loads and possible runout of the A division pumps.





**Cold Shutdown Test Justification SWP-CS-1 (Cont'd.)**

**Quarterly Partial  
Stroke Testing** : The operation circuitry of these valves only permits full stroke operation.

**Cold Shutdown  
Testing** : Exercise and stroke time



### COLD SHUTDOWN JUSTIFICATION SWP-CS-2

System : Service Water

Valve(s) : 2SWP\*V202A  
2SWP\*V1027

Category : C

Class : 3

Function : Flow isolation to prevent water hammer on pump restart after trip.

Quarterly Test Requirements : Reverse flow exercise

Basis for Relief : Reverse flow closure of the valves during normal plant operation is accomplished by isolation of either SWP safety-related division and by tripping all pumps on the isolated division. In addition to safety-related loads, the A division of SWP supplies the Reactor Building Closed Cooling Water (CCP) and Turbine Building Closed Cooling Water (CCS) Heat Exchangers. Since CCP and CCS are the largest SWP loads during normal plant operation, this creates a significant load imbalance between the A and B SWP divisions. Therefore, the divisions are normally operated cross-connected to ensure adequate cooling is provided. Isolation of either division during power operation would result in an undesirable transient which could cause a trip of the turbine generator (cooled by CCS) or cause a high drywell (cooled by CCP) pressure condition which would lead to a reactor scram.

Alternate Testing : Reverse flow exercise during cold shutdown



### COLD SHUTDOWN TEST JUSTIFICATION SWP-CS-3

System : Service Water

Valve(s) : 2SWP\*FV47A,B  
2SWP\*FV54A,B  
2SWP\*MOV93A,B  
2SWP\*MOV599  
2SWP\*V202B

Category : All valves are Category B except V202B, which is Category C.

Class : 3

Function : Safety-related valves

Quarterly Test Requirements : Category B - exercise and stroke time  
Category C - exercise reverse flow closure

Cold Shutdown Test Justification : These valves isolate Service Water flow in the event of a loss of offsite power to protect the system from water hammer when the pumps restart. During normal operation, the valve position is set to provide system flow balance. Exercising these valves would disrupt the flow balance which could lead to a trip of the turbine generator and subsequent reactor scram.

Quarterly Partial Stroke Testing : The flow valves, FV47A, B, and FV54A, B modulate during normal operation. Partial stroke exercising of the other valves results in the same problem as full stroke exercising.

Cold Shutdown Testing : All required quarterly testing listed above will be performed.



## COLD SHUTDOWN TEST JUSTIFICATION SWP-CS-4

SYSTEM : SERVICE WATER

Valve(s) : 2SWP\*V202A  
2SWP\*V1027

Category : C

Class : 3

Function : flow isolation to prevent water hammer on pump restart after trip

Testing Requirement : IWV-3521 Test Frequency, for forward flow exercise; check valves shall be exercised at least once every 3 months, except as provided by IWV-3522.

Cold Shutdown Test Justification : Check valves 2SWP\*V202A and 2SWP\*V1027 are located off the main service water headers and are not provided flow indication. Generic Letter 89-04 states the NRC's position on acceptable forward flow testing. "A check valve's full-stroke to the open position may be verified by passing the maximum required flow through the valve...Any flow rate less than this will be considered a partial-stroke exercise." The testing of 2SWP\*V202A would require the closing of one of the safety-related to non-safety-related isolation valves (2SWP\*MOV3A or 2SWP\*MOV3B). The testing of 2SWP\*V1027 would require the closing of one of the SWP header cross connect valves (2SWP\*MOV50A or 2SWP\*MOV50B).

The closing of 2SWP\*MOV3A/B, with the subsequent failure of either valve to reopen, would result in a complete loss of cooling to the CCS heat exchangers which cool the turbine generator. This loss of cooling water would require tripping the turbine generator and a subsequent power transient that could result in a reactor trip.





## Cold Shutdown Test Justification SWP-CS-4 (Cont'd.)

Both CCP and CCS are supplied from the A SWP division. Since they are the largest SWP loads during normal plant operation, a large load imbalance exists between the A&B SWP divisions. To ensure adequate cooling is available to these loads, SWP is operated cross-connected. Therefore, the closing of either 2SWP\*MOV50A or 50B would result in a significant reduction in cooling water to both CCP and CCS loads and possible runout of the A division pumps.

Quarterly Partial  
Forward Testing

: The partial forward exercising of these valves will be verified by observing the position of the valve's lever arm.

Cold Shutdown  
Testing

: The full flow forward exercising of these valves will be verified by diverting the divisions' flow through the valves and measuring the SWP pumps' flow.



RELIEF REQUEST NO. SWP-VRR-1

System : Service Water

Valve(s) : 2SWP\*MOV77A,B

Category : B

Class : 3

Function : Traveling water screen bypass for SWP

Quarterly Test Requirements : Exercise and stroke time

Basis for Relief : These valves open automatically when the traveling screens fail and cause the screenwall level to decrease. When open, the valves permit water to bypass the traveling water screens. During this time, debris from Lake Ontario (i.e., twigs, leaves, or marine life) may enter the service water system. Since all the SWP pumps take suction on the same bay, there is no way to completely stop flow through the associated bypass valve during valve cycling. Therefore, to minimize the chance of fouling of safety-related SWP components, testing of these valves will be performed during each refueling outage.

Alternate Testing : Exercise and stroke time during each refueling outage.



RELIEF REQUEST NO. SWP-VRR-2

SYSTEM : SERVICE WATER SYSTEM

Valve(s) : 2SWP\*V1002A  
2SWP\*V1002B

Category : C

Class : 3

Function : SWP system supply to the spent fuel pool

Testing Requirement : IWV-3521 Test Frequency, forward flow exercise. Check valves shall be exercised at least once every 3 months, except as provided by IWV-3522.

Basis for Relief : Check valves 2SWP\*V1002A and 2SWP\*V1002B cannot be tested with current plant configuration. These are 3" CHV's which provide emergency makeup to the fuel pool, using service water. Maximum safety flow for these valves has been determined to be 67 gpm. The only available test path is through a 3/4" drain valve. The flow which can pass through the 3/4" valve is considerably less than 67 gpm. This provides only a partial exercise, per Generic Letter 89-04. GL89-04 states the NRC's position on acceptable forward flow testing: "A check valve's full-stroke to the open position may be verified by passing the maximum required flow through the valve." Achieving full flow would require the discharge of large quantities of untreated service water in to the spent fuel pool, thereby degrading water quality and increasing radwaste.

Quarterly Partial Testing : A partial forward exercising of these valves will be performed quarterly.



Relief Request No. SWP-VRR-2 (Cont'd.)

Alternate  
Testing

: One of the valves shall be disassembled and inspected once every fuel cycle on an alternate basis.

Since these valves provide emergency makeup to the fuel pool and their availability is considered vital during core offload, the disassembly and inspection may be performed before refueling.

The disassembly and inspection shall be performed in accordance with NRC staff position stipulated in NRC GL 89-04, Position 2.





REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
 Rev. 4

SYSTEM: REACTOR WATER CLEANUP SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2WCS*EFV221	2	37A G-7	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2WCS*EFV222	2	37A G-5	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2WCS*EFV223	2	37A H-4	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2WCS*EFV224	2	37A H-3	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	
2WCS*EFV300	2	37A G-6	AC	0.75 CHV	SEA	O	C	-	PI-T LJ-R FE-Q(F)	GVRR-1 GVRR-2	PI-T FE-R(F)	



REPORT DATE: 10/22/93

FIRST TEN YEAR INTERVAL - VALVES

NINE MILE POINT NUCLEAR POWER STATION - UNIT 2

NMP2-IST-001  
Rev. 4

SYSTEM: REACTOR WATER CLEANUP SYSTEM

VALVE NO.	AS ME CL	P&ID & COOR	VALVE CAT.	SIZE (IN) & TYPE	ACTU TYPE	POSITION			ASME XI TEST/FREQ/DIR	RELIEF REQ C.S.JUST.	IST PROG.PLN COMMITMENT TEST/FREQ/DIR	REMARKS
						NRM	SAF	FAL				
2WCS*MOV102	1	37A F-5	A	8.00 GLV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1 WCS-CS-1	FE-CS ST-CS(C) PI-T LJ-R	
2WCS*MOV112	1	37A G-5	A	8.00 GLV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1 WCS-CS-1	FE-CS ST-CS(C) PI-T LJ-R	
2WCS*MOV200	1	37B G-5	A	8.00 GLV	MOA	O	C	AI	FE-Q ST-Q(C) PI-T LJ-R	GVRR-1 WCS-CS-1	FE-CS ST-CS(C) PI-T LJ-R	



## COLD SHUTDOWN TEST JUSTIFICATION WCS-CS-1

System : Reactor Water Cleanup

Valve(s) : 2WCS\*MOV102  
2WCS\*MOV112  
2WCS\*MOV200

Category : A

Class : 1

Function : Reactor Water Cleanup system primary containment isolation valves

Quarterly Test Requirements : Exercise and stroke time

Cold Shutdown Test Justification : Reactor coolant water chemistry control is required during all normal operating modes. Failure to maintain water chemistry control would result in a forced shutdown of the reactor. The WCS System operates on a very delicate heat balance; therefore, the stopping of flow through the system, even momentarily, would require performing a lengthy heat up procedure to prevent thermal shocking of system piping and components. In addition, performing of this heat up procedure requires local temperatures to be taken on the WCS piping; since this piping contains reactor coolant, high personnel exposure rates would result. Finally, 2WCS\*MOV102 is located inside the primary containment which is inaccessible during power due to high radiation levels and the inerted atmosphere; failure in the closed position would result in a complete loss of WCS.

Quarterly Partial Stroke Testing : The operating circuitry of these valves only permits full stroke operation.

Cold Shutdown Testing : Exercise and stroke time.



NMP2-IST-001, REV. 4

NIAGARA MOHAWK POWER CORPORATION  
NINE MILE POINT NUCLEAR STATION UNIT 2

PUMP AND VALVE INSERVICE TESTING PROGRAM PLAN  
APPENDIX A - EXCLUSION/JUSTIFICATION TABLE





NIAGARA MOHAWK POWER CORPORATION  
NINE MILE POINT NUCLEAR STATION UNIT 2

Pump and Valve Inservice Testing Program Plan  
Appendix A - Exclusion/Justification Table

TABLE OF CONTENTS

SECTION I - OVERVIEW . . . . . PAGE

	Reference Summary . . . . .	I-1
I-1.0	Introduction . . . . .	I-2
I-2.0	Basis . . . . .	I-3
I-3.0	Definitions . . . . .	I-4
I-4.0	References . . . . .	I-5

SECTION II - COMPONENT EXCLUSION/JUSTIFICATION

II-1.0	Introduction . . . . .	II-1
II-2.0	Code Interpretation . . . . .	II-2
II-2.1	Pumps . . . . .	II-3
II-2.2	Valves . . . . .	II-3
II-3.0	Component Exclusion/Justification Table Formats . . . . .	II-4
II-4.0	Component Exclusion/Justification Tables & Index . . . . .	II-5
II-4.1*	AAS Breathing Air . . . . .	II-IAS-1
II-4.2	CCP Reactor Bldg. Closed Loop Cooling Water . . . . .	II-CCP-1
II-4.3	CMS Containment Atmosphere Monitoring . . . . .	II-CMS-1
II-4.4*	CPS Primary Containment Purge . . . . .	II-CPS-1
II-4.5	CSH High Pressure Core Spray . . . . .	II-CSH-1
II-4.6	CSL Low Pressure Core Spray . . . . .	II-CSL-1
II-4.7	DER Drywell Equipment Drains . . . . .	II-DER-1
II-4.8	DFR Reactor Bldg. Floor Drains . . . . .	II-DFR-1
II-4.9	EGA Air Start - Standby Diesel Generator . . . . .	II-EGA-1
II-4.10	EGF Fuel Oil - Standby Diesel Generator . . . . .	II-EGF-1
II-4.11	FPW Fire Protection - Water . . . . .	II-FPW-1
II-4.12*	FWS Feedwater System . . . . .	II-FWS-1
II-4.13	GSN N2 Inserting . . . . .	II-GSN-1
II-4.14	HCS DBA Hydrogen Recombiner . . . . .	II-HCS-1

\*System for which no components have been exempted from the Program Plan



Table of Contents (Cont'd.)

II-4.15	HVK	Control Bldg. Chilled Water . . . . .	II-HVK-1
II-4.16	IAS	Instrument Air System . . . . .	II-IAS-1
II-4.17	ICS	Reactor Core Isolation Cooling . . . . .	II-ICS-1
II-4.18	ISC	Reactor Vessel Instrumentation . . . . .	II-ISC-1
II-4.19	LMS	Leakage Monitoring System . . . . .	II-LMS-1
II-4.20	MSS	Main Steam System . . . . .	II-MSS-1
II-4.21	NMS	Neutron Monitoring System . . . . .	II-NMS-1
II-4.22	RCS	Reactor Coolant-Recirculation . . . . .	II-RCS-1
II-4.23	RDS	Control Rod Drive-Hydraulic . . . . .	II-RDS-1
II-4.24	RHS	Residual Heat Removal . . . . .	II-RHS-1
II-4.25	SAS	Service Air System . . . . .	II-SAS-1
II-4.26	SFC	Spent Fuel Pool Cooling and Cleanup . . . . .	II-SFC-1
II-4.27*	SLS	Standby Liquid Control . . . . .	II-SLS-1
II-4.28	SVV	MSS Safety Valve Vents . . . . .	II-SVV-1
II-4.29	SWP	Service Water System . . . . .	II-SWP-1
II-4.30	WCS	Reactor Water Cleanup System . . . . .	II-WCS-1
II-4.31	PMPS	Pumps . . . . .	II-PMPS-1

\*System for which no components have been exempted from the Program Plan



PUMP AND VALVE INSERVICE TESTING PROGRAM PLAN  
EXCLUSION/JUSTIFICATION DOCUMENT  
FOR  
NINE MILE POINT NUCLEAR POWER STATION UNIT 2

SECTION I - OVERVIEW



**EXCLUSION/JUSTIFICATION DOCUMENT  
REFERENCE SUMMARY**

SYSTEM	PR9301 SUPPLEMENT	CHANGE REQUEST	APPENDIX B DETERMINATION
AAS	30	-	-
CCP	16	2-90-IST-011 & R1	90-299 R1
CMS	20	2-90-IST-016 & R1	90-296 R1
CNS	26	-	-
CPS	19	-	-
CSH	5	2-90-IST-007	89-32 R3; 90-292
CSL	7	2-90-IST-005	89-32 R3; 90-291
DER	17	-	-
DFR	18	-	-
EGA	6	2-90-IST-012 R1	-
EGF	8	-	-
FPW	28	2-90-IST-028	-
FWS	24	2-90-IST-033	-
GSN	14	2-90-IST-022	90-301
GTS	31	2-90-IST-027	-
HCS	13	2-90-IST-015	-
HVC	32	2-90-IST-026	-
HVK	12	2-90-IST-018 R1	-
HVR	33	-	-
HVY	-	-	-
IAS	27	2-90-IST-023	-
ICS	25	2-90-IST-030	89-32 R3; 90-302
ISC	3	2-90-IST-009	90-300
LMS	21	2-90-IST-025	-
MSS	23	2-90-IST-031	90-297
NMS	2	-	-
RCS	15	-	-
RDS	4	2-90-IST-017	-
RHS	Original 1	2-90-IST-010	89-32 R3; 90-288; 90-248, 249; 90-294, 295
SAS	29	-	-
SFC	26	2-90-IST-024/034	90-298/91-010
SLS	10	-	-
SSP	33	-	-
SVV	22	-	-
SWP	Original 9	2-90-IST-019 R1	90-289
WCS	11	-	-
PUMPS	5,7	2-90-IST-007	89-32 R3, 90-292





## 1.0 INTRODUCTION

This document presents justification for excluding various safety-related pump and valve testing from the 1st Interval Inservice Testing (IST) Program Plan at Nine Mile Point Unit 2 (NMP2).

Justification for exclusion of these components are listed in the respective attachments appended to this document.



## 2.0 BASIS

The Nine Mile Point Unit 2 P&ID drawings were used in conjunction with the ASME XI Code, Generic Letter 89-04, the Niagara Mohawk USAR, and ANSI/ASME OM-1 to prepare the NMP2 1st Interval IST Program Plan and the Exclusion/Justification document.

The Exclusion/Justification document contains components which would otherwise be found in the IST Program, but for special cases have been exempted from the Plan.

The bases for excluding these components may be summarized as:

- o The component is exempt from testing per ASME XI IWV-1200. This includes valves used for operating convenience, valves used for system control, and valves used only for maintenance or test.
- o The component is safety-related, but considered passive with respect to its function during an accident. The component function has been evaluated by Niagara Mohawk Design Engineering and/or Licensing.

Components required to operate post-accident have DIV I or DIV III Class 1E power available. The Class 1E power designation, called "overcoding", is represented by yellow or green, and is identified on the P&ID at each safety-related component mark number. Components which are not safety-related (pipe class 4 or N), or do not receive Class 1E power post-accident, are not required to be tested per ASME XI and, consequently, are not contained in this document. Passive components which do not have to change position to perform their intended safety function(s) will be listed and comprise many of the entries in this document.

As part of the development of this document, a problem report (PR9301) and 33 associated supplements were prepared to identify components subject to testing. The Engineering dispositions to these PR Supplements and the Program Change Requests were generated to define the IST Program at Unit 2. All safety-related components considered passive during an accident were evaluated by Engineering via a PR Supplement or by Licensing via a 10CFR50 Appendix B Quality Determination and inserted into the Exclusion/Justification Document. The attached Table contains a listing of the justification material used to substantiate this document.



### 3.0 DEFINITIONS

The terms below, when used in the Inservice Testing Program Plan, Exclusion/Justification Document, are defined as follows:

- Piping & Instrumentation Drawings (P&ID's) : controlled drawings which delineate the boundaries of systems and associated components
- Active : any valve which is required to change position to accomplish its safety-related function
- Passive : any valve which is not required to change position to accomplish its safety-related function
- Electrical Overcoding : the symbol used at certain safety-related components to designate DIV I, DIV II, Class 1E power, and identified by a "Y" (yellow) or "G" (green) designator on the component ID number
- \* (Asterisk) : designates the component is safety-related and has been designed to ASME Class 1, 2, or 3 requirements
- Out of Service : a condition whereupon a component is not relied upon to support accident or mitigating conditions, and may be considered passive for the interval of time it is not being used
- Skid Mounted : systems or components which have been vendor supplied and may be safety-related or important to safety, but may have been designed to ASME Class 1, 2, or 3 requirements



## 4.0 REFERENCES

- 4.1 ASME Boiler and Pressure Vessel Code, Section XI, Rules for Inservice Inspection of Nuclear Power Plant Components, 1983 Edition, Summer 1983 Addenda
- 4.2 Nine Mile Point Unit 2, Section XI Pump and Valve Inservice Testing Program Plan, 1st Interval (NMP2-IST-001)
- 4.3 Technical Specifications, Niagara Mohawk Power Corporation, Nine Mile Point Nuclear Station Unit 2
- 4.4 Final Safety Analysis Report (UPDATED), Nine Mile Point Nuclear Station Unit 2
- 4.5 Nine Mile Point Nuclear Station Unit 2 Piping and Instrumentation Drawings (P&ID's)
- 4.6 NRC Letter; Summary of December 3-4, 1987 meeting with NMPC to discuss the Inservice Testing Program for NMP2, dated Jan. 15, 1988
- 4.7 PR 9301 (including Attachments 1 and 2) and Supplements 1-33; "Review of the NMP2-IST-001 Rev. 2 Program Plan"
- 4.8 NRC SER for the IST Program Plan, dated October 29, 1990 (TAC No. 63429)





**PUMP AND VALVE INSERVICE TESTING PROGRAM PLAN  
EXCLUSION/JUSTIFICATION DOCUMENT  
FOR  
NINE MILE POINT NUCLEAR POWER STATION UNIT 2**

**SECTION II - COMPONENT EXCLUSION/JUSTIFICATION**



## 1.0 INTRODUCTION

This Section presents justification for excluding safety-related pumps and valves from the Inservice Testing Program Plan at Unit 2 of the Nine Mile Point Nuclear Station. The Program Plan has been prepared to the requirements of the ASME Boiler and Pressure Vessel Code, Section XI, Subsection IWV, 1983 Edition through the Summer 1983 Addenda, and ASME/ANSE OM-1 and OM-6, 1988 for relief valve and pump testing respectively.

The components which are detailed in this document comprise safety-related pumps and valves, passive components, and certain non-ASME skid-mounted components which are excluded from testing by the ASME XI Code.



## 2.0 CODE INTERPRETATION

The ASME XI Code has two general conditions which must be met for pumps to be considered for addition to the IST Program Plan. The safety-related centrifugal or displacement type pumps must perform a specific function in shutting down the reactor or in mitigating the consequences of an accident, and must be provided with an emergency on-site power source, as designated by the electrical overcoding information on the component ID number.

The ASME XI Code has two general conditions which must be met for valves to be considered for addition to the IST Program Plan. The safety-related valves must perform a specific function in shutting down a reactor to the cold shutdown condition or in mitigating the consequences of an accident and, for the case of automatic actuating valves, must be provided with an emergency on-site power source, as designated by the electrical overcoding information on the component ID number.



## 2.1 Pumps

Pumps which are excluded from the IST Program Plan include those pumps which meet the conditions listed below:

- 2.1.1 The pump is safety-related, but does not have an emergency on-site power supply (IWP-1100);
- 2.1.2 The pump is supplied with emergency power solely for operating convenience (IWP-1200(b)) and is considered passive during accident conditions;
- 2.1.3 The pumps were supplied as skid-mounted vendor equipment and do not receive safety-related power;
- 2.1.4 Fans and blowers that are part of safety-related ventilation systems, whether installed in duct or pipe.

## 2.2 Valves

Valves which are excluded from the IST Program Plan include those valves which meet the conditions listed below:

- 2.2.1 Safety-related valves used only for operating convenience, such as manual vent, drain, instrument, and test valves (IWV-1200(a)). These valves are not listed in this document.
- 2.2.2 Valves are used for system control, such as self-contained pressure regulating valves, and do not have a fail safe position (IWP-1200(a)).
- 2.2.3 Valves are used solely for maintenance (IWV-1200(a)).
- 2.2.4 External control and protection systems responsible for sensing plant conditions and providing signals for valve operation (IWV-1200(b)). These valves are not listed in this document.
- 2.2.5 Valves which are not required to change position to accomplish a specific function. This includes Category A, B, or C safety-related passive valves (IWV-3700).
- 2.2.6 Non-ASME valves which are supplied as skid-mounted vendor equipment
- 2.2.7 Valves or dampers which are part of safety-related ventilation systems, whether installed in duct or pipe.





### 3.0 COMPONENT EXCLUSION/JUSTIFICATION TABLE FORMATS

#### 3.1 Valves

Valve ID No.	Unique number assigned to each valve.
ASME Class	The ASME component classification (Class 1,2, or 3).
P&ID and Coordinate	The reference drawing and the component location coordinates.
Valve Category	Valve category is defined in Subarticle IWV-2200.
Size (in.) and Type	Valve size is the nominal diameter of the valve in inches.  Valve type is the specific type of valve, as abbreviated in Table 3.0-1, Valve Table Codes.
Actu. Type	The type of Actuator used to operate the valve, as abbreviated in Table 3.0-1, Valve Table Codes.
Valve Posit.	The valve position during normal plant operation, accident, and failed (failsafe) conditions.
Justification	Statement providing the basis for exclusion from the IST Program Plan.
Change Request	Any applicable Change Requests related to the component.

#### 3.2 Pumps

Pump ID No. and System	Unique number assigned to each pump and the system name to which it belongs.
ASME Class	The ASME component classification (Class 1, 2, or 3).
P&ID and Coordinate	The reference drawing and the component location coordinates.
Justification	Statement providing the basis for exclusion from the IST Program Plan.



#### 4.0 COMPONENT EXCLUSION/JUSTIFICATION TABLE INDEX

System	Drawing No.*	Rev. No.	Attachment No.
Breathing Air (AAS)	(none)	-	1
Reactor Bldg. Closed Loop Cooling Water (CCP)	(none)	-	2
Containment Atmosphere Monitoring (CMS)	82A 82B	11 16	3
Primary Containment Purge (CPS)	61A 61B	9 16	4
High Pressure Core Spray (CSH)	33A 33B	12 9	5
Low Pressure Core Spray (CSL)	32A	9	6
Drywell Equipment Drains (DER)	67A	13	7
Reactor Bldg. Floor Drains (DFR)	63A 63E	10 11	8
Air Start - Standby Diesel Generator (EGA)	104A	16	9
Fuel Oil - Standby Diesel Generator (EGF)	104B 104C	9 7	10
Fire Protection - Water (FPW)	43G	13	11
Feedwater System (FWS)	6B	13	12
N2 Inserting (GSN)	105B	13	13

**NOTE:** Revision numbers listed are those current during Program Plan development and may not reflect the most current drawing revision available.

\*Preceded by 12177-PID-



#### 4.0 Component Exclusion/Justification Table Index (Cont'd.)

<u>System</u>	<u>Drawing No.*</u>	<u>Rev. No.</u>	<u>Attachment No.</u>
DBA Hydrogen Recombiner (HCS)	62A	10	14
	62B	9	
Control Bldg. Chilled Water (HVK)	53A	11	15
	53B	13	
Instrument Air System (IAS)	19D	13	16
	19E	11	
	19F	10	
	19G	18	
	19L	5	
	19M	4	
Reactor Core Isolation Cooling (ICS)	35A	7	17
	35B	9	
	35C	12	
	35D	7	
Reactor Vessel Instrumentation (ISC)	28A	13	18
	28B	6	
	28C	8	
Leakage Monitoring System (LMS)	81A	8	19
Main Steam System (MSS)	1A	6	20
	1B	5	
	1C	5	
	1D	5	
	1E	12	
	1F	12	

**NOTE:**

Revision numbers listed are those current during Program Plan development and may not reflect the most current drawing revision available.

\*Preceded by 12177-PID-



#### 4.0 Component Exclusion/Justification Table Index (Cont'd.)

<u>System</u>	<u>Drawing No.*</u>	<u>Rev. No.</u>	<u>Attachment No.</u>
Neutron Monitoring System (NMS)	EM-38A	5	21
Reactor Coolant - Recirculation (RCS)	29A	7	22
	29B	15	
	29C	15	
Control Rod Drive - Hydraulic (RDS)	30B	8	23
	30C	9	
Residual Heat Removal (RHS)	31A	9	24
	31B	8	
	31C	7	
	31D	10	
	31E	10	
	31F	11	
	31G	8	
Service Air System (SAS)	(none)		25
Spent Fuel Pool Cooling and Cleanup (SFC)	38A	10	26
	38B	10	
	38C	9	

**NOTE:**

Revision numbers listed are those current during Program Plan development and may not reflect the most current drawing revision available.

\*Preceded by 12177-PID-





4.0 Component Exclusion/Justification Table Index (Cont'd.)

<u>System</u>	<u>Drawing No.*</u>	<u>Rev. No.</u>	<u>Attachment No.</u>
Standby Liquid Control (SLS)	36A	14	27
MSS Safety Valve Vents (SVV)	1A	6	28
	1B	5	
	1C	5	
	1D	5	
Service Water System (SWP)	11A	12	29
	11B	12	
	11C	12	
	11E	9	
	11F	19	
	11G	14	
	11H	20	
	11J	12	
	11L	15	
	11M	13	
	11P	20	
	11Q	7	
Reactor Water Cleanup System (WCS)	37A	11	30
	37B	11	

NOTE:

Revision numbers listed are those current during Program Plan development and may not reflect the most current drawing revision available.

\*Preceded by 12177-PID-



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : BREATHING AIR

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
BREATHING AIR SYSTEM								SAFETY-RELATED AAS SYSTEM VALVES ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : REACTOR BLDG. CLOSED LOOP COOLING WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2CCP*RV60A	3	13E K-3	0.75 REV	SEA	C	-	-	THERMAL RELIEF - EXEMPT PER IWV-122A. USED FOR MAINTENANCE OF 2RHS*P1A SEAL COOLER.
2CCP*RV60B	3	13E D-9	0.75 REV	SEA	C	-	-	THERMAL RELIEF - EXEMPT PER IWV-122A. USED FOR MAINTENANCE OF 2RHS*P1B SEAL COOLER
2CCP*RV60C	3	13E E-9	0.75 REV	SEA	C	-	-	THERMAL RELIEF - EXEMPT PER IWV-122A. USED FOR MAINTENANCE OF 2RHS*P1C SEAL COOLER.
2CCP*V143	3	13E D-10	12.00 CHV	SEA	O	C	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-299 R/I. SEE PR 9301, SUPPLEMENT 16.
2CCP*V148	3	13E H-10	12.00 CHV	SEA	O	C	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-299 R/I. SEE PR 9301, SUPPLEMENT 16.
2CCP*V161	3	13E G-6	12.00 CHV	SEA	O	C	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-299 R/I. SEE PR 9301, SUPPLEMENT 16



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : REACTOR BLDG. CLOSED LOOP COOLING WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2CCP*V277	3	13E J-4	1.50 CHV	SEA	O	C	-	SR PASSIVE, PER APPENDIX B DETERMINATION 90-299 R/I. SEE PR 9301, SUPPLEMENT 16.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : CONTAINMENT ATMOSPHERE MONITORING

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2CMS*SOV25A	2	82B G-3	0.75 SOV	SOA	0	0	-	SR PASSIVE PER SAFETY EVALUATION 91-84 AND PM #89-94
2CMS*SOV25B	2	82B E-3	0.75 SOV	SOA	0	0	-	SR PASSIVE PER SAFETY EVALUATION 91-84 AND PM #89-94
2CMS*SOV25C	2	82B J-5	0.75 SOV	SOA	0	0	-	SR PASSIVE PER SAFETY EVALUATION 91-84 AND PM #89-94
2CMS*SOV25D	2	82B E-5	0.75 SOV	SOA	0	0	-	SR PASSIVE PER SAFETY EVALUATION 91-84 AND PM #89-94
2CMS*SOV76A	2	82A L-4	0.75 GLV	SOA	C	OC	C	SR PASSIVE PER APPENDIX B DETERMINATION 90-296, REV. 1. SEE PR 9301, SUPP. 20.
2CMS*SOV76B	2	82A B-4	0.75 GLV	SOA	C	OC	C	SR PASSIVE PER APPENDIX B DETERMINATION 90-296, REV. 1. SEE PR 9301, SUPP. 20.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : CONTAINMENT ATMOSPHERE MONITORING

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2CMS*SOV77A	2	82A L-2	0.75 GLV	SOA	C	OC	C	SR PASSIVE PER APPENDIX B DETERMINATION 90-296, REV. 1. SEE PR 9301, SUPP. 20.
2CMS*SOV77B	2	82A B-9	0.75 GLV	SOA	C	OC	C	SR PASSIVE PER APPENDIX B DETERMINATION 90-296, REV. 1. SEE PR 9301, SUPP. 20.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : PRIMARY CONTAINMENT PURGE

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
CONTAINMENT PURGE & STANDBY GAS TREATMENT SYS.								SAFETY-RELATED VALVES OF CPS ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : HIGH-PRESSURE CORE SPRAY

REPORT DATE: 10/25/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2CSH*RV160	2	33B G-9	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. SR PASSIVE. VALVE NEEDED ONLY FOR THERMAL RELIEF DURING MAINTENANCE OF 2CSH*P2. SEE PR9301, SUPPLEMENT 5.
2CSH*V53	2	33A H-9	3.00 CHV	SEA	C	-	-	DOES NOT PROVIDE AN ACTIVE SAFETY FUNCTION PER PR9301, SUPP. 5 DISPOSITION. VALVE USED TO DRAIN CSH TO LWS AND IS EXEMPT PER IWV-1200.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : REACTOR BLDG. FLOOR DRAINS

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
REACTOR BLDG EQUIPMENT DRAIN								SAFETY-RELATED VALVES IN DFR ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : FIRE PROTECTION WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
FIRE PROTECTION								SAFETY-RELATED COMPONENTS OF THE FPW SYSTEM ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : DBA HYDROGEN RECOMBINER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
HYDROGEN RECOMBINER								SAFETY-RELATED VALVES IN THE HCS SYSTEM ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : REACTOR BLDG. FLOOR DRAINS

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
REACTOR BLDG EQUIPMENT DRAIN								SAFETY-RELATED VALVES IN DFR ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : FIRE PROTECTION WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
FIRE PROTECTION								SAFETY-RELATED COMPONENTS OF THE FPW SYSTEM ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : DBA HYDROGEN RECOMBINER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
HYDROGEN RECOMBINER								SAFETY-RELATED VALVES IN THE HCS SYSTEM ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : REACTOR BLDG. FLOOR DRAINS

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
REACTOR BLDG EQUIPMENT DRAIN								SAFETY-RELATED VALVES IN DFR ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : FIRE PROTECTION WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
FIRE PROTECTION								SAFETY-RELATED COMPONENTS OF THE FPW SYSTEM ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : DBA HYDROGEN RECOMBINER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
HYDROGEN RECOMBINER								SAFETY-RELATED VALVES IN THE HCS SYSTEM ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : CONTROL BLDG. CHILLED WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2HVK*RV14A	3	53A D-4	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A; USED AS A THERMAL RELIEF DURING MAINTENANCE OF 2HVK*CHL1A.
2HVK*RV14B	3	53A D-8	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A; USED AS A THERMAL RELIEF DURING MAINTENANCE OF 2HVK*CHL1A.
2HVK*RV35A	3	53A D-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A; USED AS A THERMAL RELIEF DURING MAINTENANCE OF 2HVC*ACU2A.
2HVK*RV35B	3	53A D-8	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A; USED AS A THERMAL RELIEF DURING MAINTENANCE OF 2HVC*ACU2A.
2HVK*RV37A	3	53A D-6	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A; USED AS A THERMAL RELIEF DURING MAINTENANCE OF 2HVC*ACU3A.
2HVK*RV37B	3	53A D-10	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A; USED AS A THERMAL RELIEF DURING MAINTENANCE OF 2HVC*ACU3B.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : CONTROL BLDG. CHILLED WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2HVK*RV43A	3	53A H-4	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A; USED AS A THERMAL RELIEF DURING MAINTENANCE OF 2HVC*ACU1A.
2HVK*RV43B	3	53A H-8	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A; USED AS A THERMAL RELIEF DURING MAINTENANCE OF 2HVC*ACU1B.
2HVK*TV21A	3	53A H-3	4.00 FCV	EHA	OC	-	-	PER APPENDIX "B" DETERMINATION 91-027, THE VALVE SAFETY-RELATED FUNCTION IS TO MODULATE AND SO EXEMPTED PER IWV-1200A.
2HVK*TV21B	3	53A H-8	4.00 FCV	EHA	OC	-	-	PER APPENDIX "B" DETERMINATION 91-027, THE VALVE SAFETY-RELATED FUNCTION IS TO MODULATE AND SO EXEMPTED PER IWV-1200A.
2HVK*TV22A	3	53A E-2	4.00 FCV	EHA	OC	-	-	PER APPENDIX "B" DETERMINATION 91-027, THE VALVE SAFETY-RELATED FUNCTION IS TO MODULATE AND SO EXEMPTED PER IWV-1200A.
2HVK*TV22B	3	53A E-7	4.00 FCV	EHA	OC	-	-	PER APPENDIX "B" DETERMINATION 91-027, THE VALVE SAFETY-RELATED FUNCTION IS TO MODULATE AND SO EXEMPTED PER IWV-1200A.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : INSTRUMENT AIR

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2IAS*V371	3	19D H-8	1.00 CHV	SEA	C	-	-	SR PASSIVE. SEE PR9301, SUPP. 27, ADS COMPRESSOR C2 ABANDONED IN PLACE. UPSTREAM VALVE IAS*V136 IS NORMALLY CLOSED.
2IAS*V372	3	19D H-4	1.00 CHV	SEA	C	-	-	SR PASSIVE. SEE PR9301, SUPP. 27, ADS COMPRESSOR C2 ABANDONED IN PLACE. UPSTREAM VALVE IAS*V135 IS NORMALLY CLOSED.
2IAS*V411	3	19E J-2	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV128 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V416	3	19E D-2	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV127 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V426	3	19E F-2	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV126 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V436	3	19E H-2	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV125 IS NSR. SEE PR9301, SUPP. 27.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : INSTRUMENT AIR

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2IAS*V441	3	19E J-2	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV124 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V456	3	19E C-7	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV123 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V461	3	19E E-7	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV122 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V466	3	19E G-7	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV121 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V476	3	19E J-7	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV120 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V521	3	19F D-2	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV137 IS NSR. SEE PR9301, SUPP. 27.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : INSTRUMENT AIR

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2IAS*V531	3	19F F-2	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV136 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V536	3	19F H-2	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV135 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V541	3	19F J-2	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV134 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V551	3	19F B-6	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV133 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V556	3	19F D-6	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV132 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V561	3	19F F-6	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV131 IS NSR. SEE PR9301, SUPP. 27.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : INSTRUMENT AIR

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2IAS*V566	3	19F H-6	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV130 IS NSR. SEE PR9301, SUPP. 27.
2IAS*V576	3	19F J-6	1.25 CHV	SEA	C	-	-	SR PASSIVE. PRESSURE RELIEF MODE OF 2MSS*PSV129 IS NSR. SEE PR9301, SUPP. 27.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : REACTOR CORE ISOLATION COOLING

REPORT DATE: 10/25/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2ICS*FV108	2	35D D-2	4.00 GLV	MOA	C	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-302. SEE APP. B DET. 89-32, PR9301, SUPP. 25.
2ICS*HYV151	4	35B I-8	4.00 GTV	AOA	O	-	-	EXEMPT PER IWV-1200A, AND VALVE IS NON-ASME.
2ICS*MOV150	4	35B I-8	4.00 GTV	MOA	O	-	-	NON-ASME, MOUNTED ON TERRY TURBINE SKID. MAY GO INTO BOP TESTING PROGRAM.
2ICS*MOV170	2	35A E-5	1.00 GLV	MOA	C	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-302. SEE APP. B DET. 89-32, PR9301, SUPP. 25.
2ICS*V220	2	35A H-10	4.00 CHV	SEA	C	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-302. SEE APP. B DET. 89-32, PR9301, SUPP. 25.
2ICS*V36	2	35B G-8	1.00 CHV	SEA	C	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-302.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : REACTOR CORE ISOLATION COOLING

REPORT DATE: 10/25/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2ICS*V37	2	35D F-6	4.00 CHV	SEA	0	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-302. SEE APP. B DET. 89-32, PR9301, SUPP. 25.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : MAIN STEAM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2MSS*MOV108	1	1A J-4	2.00 GLV	MOA	O	-	AI	NO SR POWER. SR PASSIVE. RX HEAD VENT TO MAINSTEAM LINE EQUALIZING VALVE.
2MSS*MOV118	1	1A J-3	2.00 GLV	MOA	C	OC	AI	SR PASSIVE PER APPENDIX B DETERMINATION 90-297. SEE PR9301, SUPPLEMENT 23.
2MSS*MOV119	1	1A J-4	2.00 GLV	MOA	C	OC	AI	SR PASSIVE PER APPENDIX B DETERMINATION 90-297. SEE PR9301, SUPPLEMENT 23.
2MSS*MOV189	1	1E B-2	2.00 GLV	MOA	C	-	AI	NO SR POWER. SR PASSIVE. DRAIN LINE FOR ICS TURBINE STEAM HEADER.
2MSS*MOV207	1	1E F-4	6.00 GLV	MOA	C	-	AI	NO SR POWER. SR PASSIVE. DRAIN HEADER FOR MSL'S UPSTREAM OF INSIDE MSIV'S.
2MSS*RVV190	1	1A K-7	2.00 REV	SEA	C	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-297. SEE PR9301, SUPPLEMENT 23.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : REACTOR VESSEL INSTRUMENT

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2ISC*SOV119	2	28C C-6	0.50 SOV	SOA	C	OC	C	SR PASSIVE PER APPENDIX B DETERMINATION 90-300. SEE PR9301, SUPPLEMENT 3.
2ISC*SOV120	2	28C C-6	0.50 SOV	SOA	C	OC	C	SR PASSIVE PER APPENDIX B DETERMINATION 90-300. SEE PR9301, SUPPLEMENT 3.
2ISC*SOV123	2	28C B-6	0.50 SOV	SOA	C	-	C	NSR PER APPENDIX B DETERMINATION 90-300. SEE PR9301, SUPPLEMENT 3.
2ISC*SOV124	2	28C K-6	0.50 SOV	SOA	C	-	C	NSR PER APPENDIX B DETERMINATION 90-300. SEE PR9301, SUPPLEMENT 3.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : NEUTRON MONITORING SYSTEM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
NEUTRON MONITORING								SAFETY-RELATED VALVES ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS. SEE PR9301, SUPPLEMENT 2.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : CONT. LEAKAGE MONITORING

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
CONTAINMENT LEAKAGE MONITORING SYSTEM								SAFETY-RELATED VALVES IN THE LMS SYSTEM ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.



FIRST TEN HOUR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : REACTOR RECIRC. SYSTEM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2RCS*HYV17A	1	29B J-4	24.00 GTV	MOA	0	-	-	SR PASSIVE. NO SAFETY POWER.
2RCS*HYV17B	1	29C J-4	24.00 GTV	MOA	0	-	-	SR PASSIVE. NO SAFETY POWER.
2RCS*MOV10A	3	29B F-6	24.00 GTV	MOA	0	-	-	SR PASSIVE. NO SAFETY POWER.
2RCS*MOV10B	3	29C F-6	24.00 GTV	MOA	0	-	-	SR PASSIVE. NO SAFETY POWER.
2RCS*MOV18A	1	29B J-2	24.00 GTV	MOA	0	-	-	SR PASSIVE. NO SAFETY POWER.
2RCS*MOV18B	1	29C J-2	24.00 GTV	MOA	0	-	-	SR PASSIVE. NO SAFETY POWER.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : CRD HYDRAULIC SYSTEM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2RDS*PSE132 [XXXX]	N	30B E-10	RD	-	-	-	-	TYPICAL OF 185. GE RUPTURE DISK C12-D001-132.NO SR FUNCTION. BRACKET [XXXX] EPN VARIES. SR FOR PRESSURE BOUNDARY ONLY.
2RDS*SOV120 [XXXX]	N	30B C-10	SOV	SOA	OC	-	-	TYPICAL OF 185. GE C12-D001-120. NO SR FUNCTION. BRACKET [XXXX] EPN VARIES. SR FOR PRESSURE BOUNDARY ONLY.
2RDS*SOV121 [XXXX]	N	30B B-10	SOV	SOA	OC	-	-	TYPICAL OF 185. GE V/V C12-D001-121. NO SR FUNCTION. BRACKET [XXXX] EPN VARIES. SR FOR PRESSURE BOUNDARY ONLY.
2RDS*SOV122 [XXXX]	N	30B B-9	SOV	SOA	OC	-	-	TYPICAL OF 185. GE V/V C12-D001-121. NO SR FUNCTION. BRACKET [XXXX] EPN VARIES. SR FOR PRESSURE BOUNDARY ONLY.
2RDS*SOV123 [XXXX]	N	30B C-10	SOV	SOA	OC	-	-	TYPICAL OF 185. GE V/V C12-D001-121. NO SR FUNCTION. BRACKET [XXXX] EPN VARIES. SR FOR PRESSURE BOUNDARY ONLY.
2RDS*SOV136	N	30C H-2	1.00 SOV	SOA	O	-	-	SR ACTIVE TO BE TESTED IN BOP PROGRAM. 3-WAY SOV. O=DEENERGIZED. ALLOWS AIR TO SCRAM HEADER C=ENERGIZED. VENTS AIR.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : CRD HYDRAULIC SYSTEM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2RDS*SOV137	N	30C H-2	1.00 SOV	SOA	O	-	-	SR ACTIVE TO BE TESTED IN BOP PROGRAM. 3-WAY SOV. O=DEENERGIZED. ALLOWS AIR TO SCRAM HEADER. C=ENERGIZED. VENTS AIR.
2RDS*SOV156	N	30C J-7	1.00 SOV	SOA	C	O	C	SR ACTIVE. ATWS SCRAM AIR HEADER SOV. WILL BE TESTED IN A BOP PROGRAM.
2RDS*SOV157	N	30C J-8	1.00 SOV	SOA	C	O	C	SR ACTIVE. ATWS SCRAM AIR HEADER SOV. WILL BE TESTED IN A BOP PROGRAM.
2RDS*SOV158	N	30C K-8	1.00 SOV	SOA	C	O	C	SR ACTIVE. ATWS SCRAM AIR HEADER SOV. WILL BE TESTED IN A BOP PROGRAM.
2RDS*SOV159	N	30C K-7	1.00 SOV	SOA	C	O	C	SR ACTIVE. ATWS SCRAM AIR HEADER SOV. WILL BE TESTED IN A BOP PROGRAM.
2RDS*SOV160	N	30C A-5	1.00 SOV	SOA	C	O	-	GE C12-F163A





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : CRD HYDRAULIC SYSTEM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2RDS*SOV161	N	30C A-3	1.00 SOV	SOA	C	O	-	GE C12-F163B
2RDS*SOV162	N	30C E-2	1.00 SOV	SOA	O	-	-	SR ACTIVE TO BE TESTED IN BOP PROGRAM. 3-WAY SOV. O=DEENERGIZED. ALLOWS AIR TO SCRAM HEADER. C=ENERGIZED. VENTS AIR.
2RDS*SOV163	N	30C G-2	1.00 SOV	SOA	O	-	-	SR ACTIVE TO BE TESTED IN BOP PROGRAM. 3-WAY SOV. O=DEENERGIZED. ALLOWS AIR TO SCRAM HEADER. C=ENERGIZED. VENTS AIR.
2RDS*V137 [XXXX]	N	30B B-7	CHV	SEA	OC	-	-	TYPICAL OF 185. GE C12-D001-137. BRACKET [XXXX] EPN VARIES. SR FOR PRESSURE BOUNDARY ONLY.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : RESIDUAL HEAT REMOVAL SYSTEM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2RHS*LV17A	2	31D G-5	4.00 GTV	AOA	OC	-	-	SR PASSIVE. SEE LDCN #U-1462 WHICH REMOVES VALVE FROM USAR TABLE 3.9A-1.
2RHS*LV17B	2	31E D-6	4.00 GTV	AOA	OC	-	-	SR PASSIVE. SEE LDCN #U-1462 WHICH REMOVES VALVE FROM USAR TABLE 3.9A-1.
2RHS*PV21A	2	31D E-9	8.00 GTV	AOD	C	O	O	SR PASSIVE PER APPENDIX B DETERMINATION 90-295. SEE PR9301.
2RHS*PV21B	2	31G J-3	8.00 GTV	AOD	C	O	O	SR PASSIVE PER APPENDIX B DETERMINATION 90-295. SEE PR9301.
2RHS*RV139	2	31F G-10	0.75 REV	SEA	C	-	-	THERMAL RELIEFS PER PR9301, SUPPLEMENT 1, AND EXEMPT PER IWV-1200.
2RHS*RV42A	2	31D E-7	0.75 REV	SEA	C	-	-	SR PASSIVE. EXEMPT PER IWV-1200A. USED ONLY FOR MAINTENANCE ISOLATION OF 2RHS*E1A.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : RESIDUAL HEAT REMOVAL SYSTEM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2RHS*RV42B	2	31E I-7	0.75 REV	SEA	C	-	-	SR PASSIVE. EXEMPT PER IWV-1200A. USED ONLY FOR MAINTENANCE ISOLATION OF 2RHS*E1A.
2RHS*RV56A	2	31D F-4	0.75 REV	SEA	C	-	-	THERMAL RELIEFS PER PR9301, SUPPLEMENT 1, AND EXEMPT PER IWV-1200.
2RHS*RV56B	2	31E F-4	0.75 REV	SEA	C	-	-	THERMAL RELIEFS PER PR9301, SUPPLEMENT 1, AND EXEMPT PER IWV-1200.
2RHS*RV61A	2	31F F-9	0.75 REV	SEA	C	-	-	THERMAL RELIEFS PER PR9301, SUPPLEMENT 1, AND EXEMPT PER IWV-1200.
2RHS*RV61B	2	31F H-2	0.75 REV	SEA	C	-	-	THERMAL RELIEFS PER PR9301, SUPPLEMENT 1, AND EXEMPT PER IWV-1200.
2RHS*RV61C	2	31G C-9	0.75 REV	SEA	C	-	-	THERMAL RELIEFS PER PR9301, SUPPLEMENT 1, AND EXEMPT PER IWV-1200.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : RESIDUAL HEAT REMOVAL SYSTEM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2RHS*SOV120	2	31C C-7	0.75 GLV	SOA	C	C	C	SR PASSIVE PER APPENDIX B DETERMINATION 90-294. SEE PR9301.
2RHS*SOV121	2	31C C-7	0.75 GLV	SOA	C	C	C	SR PASSIVE PER APPENDIX B DETERMINATION 90-294. SEE PR9301.
2RHS*V117	2	31E J-2	0.75 CHV	SEA	C	-	-	SR ACTIVE PER TECH. SPEC. TABLE 3.6.3-1. APPENDIX J TEST REQUIRED PER USAR TABLE 6.2-56.
2RHS*V118	2	31E I-2	0.75 CHV	SEA	C	-	-	SR ACTIVE PER TECH. SPEC. TABLE 3.6.3-1. APPENDIX J TEST REQUIRED PER USAR TABLE 6.2-56.
2RHS*V13	2	31D H-5	4.00 CHV	SEA	OC	C	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-249. SEE PR9301.
2RHS*V14	2	31D G-2	4.00 CHV	SEA	OC	C	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-249. SEE PR9301.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : RESIDUAL HEAT REMOVAL SYSTEM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2RHS*V7	2	31C C-6	6.00 CHV	SEA	C	-	-	VALVE INTERNAL HAS BEEN REMOVED PER SAFETY EVAL. 93-102, REV. 0.
2RHS*V8	2	31E E-4	6.00 CHV	SEA	C	-	-	VALVE INTERNAL HAS BEEN REMOVED PER SAFETY EVAL. 93-102, REV. 0
2RHS*V9	2	31B H-9	6.00 CHV	SEA	C	-	-	VALVE INTERNAL HAS BEEN REMOVED PER SAFETY EVAL. 93-102, REV. 0



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE AIR

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
SERVICE AIR SYSTEM								SAFETY-RELATED VALVES IN THE SAS SYSTEM ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : FUEL POOL COOLING AND CLEANUP

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SFC*AOV33A	3	38B J-9	4.00 BFV	AOA	C	-	C	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.
2SFC*AOV33B	3	38A I-2	4.00 BFV	AOA	C	-	C	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.
2SFC*HV114	3	38C E-10	2.50 GTV	AOA	O	-	-	SR PASSIVE. NO SR POWER.
2SFC*HV115	3	38B E-3	4.00 BFV	AOA	C	-	-	SR PASSIVE. NO SR POWER.
2SFC*HV116	3	38B D-4	4.00 BFV	AOA	C	-	-	SR PASSIVE. NO SR POWER.
2SFC*HV121	3	38B B-4	4.00 BFV	AOA	C	-	-	SR PASSIVE. NO SR POWER.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : FUEL POOL COOLING AND CLEANUP

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SFC*HV148	3	38C E-10	2.50 GTV	AOA	0	-	-	SR PASSIVE. NO SR POWER.
2SFC*HV149	3	38C D-10	2.50 GTV	AOA	0	-	-	SR PASSIVE. NO SR POWER.
2SFC*HV35A	3	38B E-8	10.00 BFV	SOA	0	-	0	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.
2SFC*HV35B	3	38A H-4	10.00 BFV	SOA	0	-	0	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.
2SFC*HV54A	3	38B H-10	10.00 BFV	SOA	0	-	0	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.
2SFC*HV54B	3	38A H-4	10.00 BFV	SOA	0	-	0	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : FUEL POOL COOLING AND CLEANUP

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SFC*V102A	3	38A H-5	8.00 CHV	SEA	C	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.
2SFC*V102B	3	38B H-9	8.00 CHV	SEA	C	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.
2SFC*V106	3	38A E-4	4.00 CHV	SEA	C	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.
2SFC*V11	3	38B C-10	8.00 CHV	SEA	OC	O	-	PER APPENDIX B DETERMINATION 91-010, THE VALVES HAVE NO SR FUNCTION IN REVERSE DIRECTION.
2SFC*V3	3	38B J-7	10.00 CHV	SEA	C	-	-	SR PASSIVE. SEE PR 9301, SUPP. 26
2SFC*V4	3	38B J-7	10.00 CHV	SEA	C	-	-	SR PASSIVE. SEE PR 9301, SUPP. 26



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : FUEL POOL COOLING AND CLEANUP

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SFC*V7	3	38A K-8	8.00 CHV	SEA	C	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.
2SFC*V9	3	38A D-1	8.00 CHV	SEA	OC	O	-	PER APPENDIX B DETERMINATION 91-010, THE VALVES HAVE NO SR FUNCTION IN REVERSE DIRECTION.
2SFC*V95A	3	38C D-7	8.00 CHV	SEA	OC	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.
2SFC*V95B	3	38C D-6	8.00 CHV	SEA	OC	-	-	SR PASSIVE PER APPENDIX B DETERMINATION 90-298. SEE PR 9301, SUPP. 26.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : STANDBY LIQUID CONTROL

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
STANDBY LIQUID CONTROL								SAFETY-RELATED ACTIVE COMPONENTS ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS IN SLS SYSTEM.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : MAIN STEAM SAFETY VALVES, VENTS, AND DRAINS

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
								SAFETY-RELATED VALVES IN THE SVV SYSTEM ARE IN THE IST PROGRAM PLAN. THERE ARE NO EXCLUSIONS.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*EFV34A	3	11H H-10	1.00 EFV	SEA	C	-	-	PASSIVE INSTRUMENTS 2SWP-AE143A, CE144A ABANDONED IN PLACE. FLOW BLOCKED BY *V912A.
2SWP*EFV34B	3	11H D-9	1.00 EFV	SEA	O	-	-	PASSIVE INSTRUMENTS 2SWP-AE143B, CE144A ABANDONED IN PLACE. FLOW BLOCKED BY *V912B.
2SWP*MOV15A	3	11P G-2	2.50 GTV	MOA	O	-	AI	SR PASSIVE PER DISPOSITION OF PR9301, SUPPLEMENT 9.
2SWP*MOV15B	3	11G B-7	2.50 GTV	MOA	O	-	AI	SR PASSIVE PER DISPOSITION OF PR9301, SUPPLEMENT 9.
2SWP*MOV38A	3	11M J-8	6.00 GTV	MOA	C	-	-	EDC 2M 10133 REMOVES POWER. PASSIVE VALVE.
2SWP*MOV38B	3	11F G-3	6.00 GTV	MOA	C	-	-	EDC 2M 10133 REMOVES POWER. PASSIVE VALVE.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*MOV39A	3	11M J-9	6.00 GTV	MOA	C	-	-	EDC 2M 10133 REMOVES POWER. PASSIVE VALVE.
2SWP*MOV39B	3	11F G-4	6.00 GTV	MOA	C	-	-	EDC 2M 10133 REMOVES POWER. PASSIVE VALVE.
2SWP*RV10A	3	11C F-6	0.75 RVV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC402A. SEE PR9301, SUPP. 9.
2SWP*RV10B	3	11C F-5	0.75 RVV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC402B. SEE PR9301, SUPP. 9.
2SWP*RV11A	3	11F C-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC409A. SEE PR9301ORIGINAL.
2SWP*RV11B	3	11F B-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*409B. SEE PR9301 ORIGINAL.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*RV155A	3	11P F-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC412A.
2SWP*RV155B	3	11G K-8	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC412B.
2SWP*RV202A	3	11L B-4	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVP*UC1A.
2SWP*RV202B	3	11L E-4	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVP*UC1B.
2SWP*RV203	3	11L I-4	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVP*UC2.
2SWP*RV27A	3	11L C-5	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2EGS*EG1.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*RV27B	3	11L F-5	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2EGS*EG3.
2SWP*RV515	3	11F B-7	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVC*UC102. SEE PR9301 ORIGINAL.
2SWP*RV518	3	11L J-5	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2EGS*EG2.
2SWP*RV53A	3	11Q B-8	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVC*UC108A.
2SWP*RV53B	3	11Q H-8	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVC*UC108B.
2SWP*RV556	3	11L E-9	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC403.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*RV558	3	11P G-8	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC406.
2SWP*RV564	3	11P B-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC104.
2SWP*RV566	3	11F E-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVC*UC105. SEE PR9301ORIGINAL.
2SWP*RV575	3	11F J-7	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVC*UC106. SEE PR9301 ORIGINAL.
2SWP*RV576	3	11F F-7	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVC*UC107. SEE PR9301 ORIGINAL.
2SWP*RV58A	3	11J H-6	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVK*CHL1B.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*RV58B	3	11J D-6	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVK*CHL1A.
2SWP*RV68A	3	11E K-3	0.75 RVV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC414A. SEE PR9301 ORIGINAL.
2SWP*RV68B	3	11G I-4	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVC*UC414B. SEE PR9301 ORIGINAL.
2SWP*RV72A	3	11M J-8	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC415A.
2SWP*RV72B	3	11F I-2	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC415B. SEE PR9301 ORIGINAL.
2SWP*RV76B	3	11L E-7	8.00 CHV	-	-	-	-	PASSIVE. VALVE INTERNALS HAVE BEEN REMOVED.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*RV80A	3	11L B-9	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC401A.
2SWP*RV80B	3	11G C-4	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVC*UC401B. SEE PR9301 ORIGINAL.
2SWP*RV80C	3	11P G-9	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC401C.
2SWP*RV80D	3	11L C-9	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC401D.
2SWP*RV80E	3	11G D-4	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVC*UC401E. SEE PR9301 ORIGINAL.
2SWP*RV80F	3	11B H-9	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVC*UC401F.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*RV81A	3	11P H-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC403A.
2SWP*RV81B	3	11G D-8	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC403B.
2SWP*RV82A	3	11P E-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVC*UC404A.
2SWP*RV82C	3	11P C-10	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC404C.
2SWP*RV82D	3	11G G-8	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC404D.
2SWP*RV83A	3	11P L-6	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC407A.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*RV83B	3	11P M-6	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC407B.
2SWP*RV83C	3	11P J-6	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC407C.
2SWP*RV83D	3	11F A-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*407D. SEE PR9301 ORIGINAL.
2SWP*RV83E	3	11G E-4	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVC*UC407E. SEE PR9301 ORIGINAL.
2SWP*RV84A	3	11M L-8	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVR*UC410A.
2SWP*RV84B	3	11P C-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC410B. SEE PR9301ORIGINAL.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*RV84C	3	11G G-4	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVC*UC410C. SEE PR9301 ORIGINAL.
2SWP*RV85A	3	11E I-3	0.75 RVV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC411A. SEE PR9301 ORIGINAL.
2SWP*RV85B	3	11F D-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC411B. SEE PR9301 ORIGINAL.
2SWP*RV85C	3	11G J-4	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC411C.
2SWP*RV87A	3	11F I-7	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVC*UC101A. SEE PR9301 ORIGINAL.
2SWP*RV87B	3	11F D-7	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVC*UC101B. SEE PR9301 ORIGINAL.



FIRST TEN YEAR INTERVAL  
NINE MILE POINT NUCLEAR STATION - UNIT 2  
EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*RV89A	3	11J G-3	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVC*UC103A.
2SWP*RV89B	3	11J B-2	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF ONLY DURING MAINTENANCE OF 2HVC*UC103B.
2SWP*RV9A	3	11C C-6	0.75 RVV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC408A. SEE PR9301, ORIGINAL.
2SWP*RV9B	3	11C C-6	0.75 RVV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC408A. SEE PR9301, ORIGINAL.
2SWP*RVX157A	3	11M C-5	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVY*UC2A.
2SWP*RVX157B	3	11M G-5	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVY*UC2B.



FIRST TEN YEAR INTERVAL  
NINE MILE POINT NUCLEAR STATION - UNIT 2  
EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*RVX46A	3	11E D-3	0.75 RVV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC413AY. SEE PR9301, ORIGINAL.
2SWP*RVX46B	3	11F K-2	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC413B. SEE PR9301 ORIGINAL.
2SWP*RVY157A	3	11M B-5	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVY*UC2C.
2SWP*RVY157B	3	11M E-5	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED FOR THERMAL RELIEFDURING MAINTENANCE OF 2HVY*UC2D.
2SWP*RVY46A	3	11E B-3	0.75 RVV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC413A. SEE PR9301, ORIGINAL.
2SWP*RVY46B	3	11F J-2	0.75 REV	SEA	C	-	-	EXEMPT PER IWV-1200A. USED AS THERMAL RELIEF DURING MAINTENANCE OF 2HVR*UC413B. SEE PR9301 ORIGINAL.





FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*TV35A	3	11J G-7	4.00 GTV	EHA	OC	AI	-	EXEMPT PER IWV-1200B. SEE PR9301.
2SWP*TV35B	3	11J G-7	4.00 GTV	EHA	OC	AI	-	EXEMPT PER IWV-1200B. SEE PR9301.
2SWP*V1028	3	11H G-7	30.00 CHV	SEA	O	-	-	PROVIDE MAKEUP TO CWS WHICH IS ISOLATED ON LOSS OF POWER.
2SWP*V1029	3	11H E-7	30.00 CHV	SEA	O	-	-	PROVIDE MAKEUP TO CWS WHICH IS ISOLATED ON LOSS OF POWER.
2SWP*V203A	3	11C K-4	0.75 CHV	SEA	C	-	-	PREVENTS SWP BACKFLOW INTO MWS USED DURING FLUSH AND WET LAYUP OF 2RHS*E1A. SR PASSIVE. SEE PR9301, SUPPLEMENT 9.
2SWP*V203B	3	11P E-9	0.75 CHV	SEA	C	-	-	PREVENTS SWP BACKFLOW INTO MWS USED DURING FLUSH AND WET LAYUP OF 2RHS*E1B. SR PASSIVE.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : SERVICE WATER

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2SWP*V720A	3	11H K-9	1.00 CHV	SEA	C	-	-	PASSIVE INSTRUMENTS 2SWP-AE143A, CE144A ABANDONED IN PLACE. FLOW BLOCKED BY *V912A.
2SWP*V720B	3	11H C-10	1.00 CHV	SEA	C	-	-	PASSIVE INSTRUMENTS 2SWP-AE143B, CE144A ABANDONED IN PLACE. FLOW BLOCKED BY *V912B.
2SWP*V75A	3	11L D-7	8.00 CHV	SEA	C	-	-	PER APPENDIX B DETERMINATION 81-26, THE SAFETY FUNCTION IS TO OPEN ONLY.
2SWP*V75B	3	11L D-7	8.00 CHV	SEA	C	-	-	PER APPENDIX B DETERMINATION 81-26, THE SAFETY FUNCTION IS TO OPEN ONLY.
2SWP*V76A	3	11L B-7	8.00 CHV	-	-	-	-	PASSIVE. VALVE INTERNALS HAVE BEEN REMOVED.
2SWP*V76B	3	11L B-7	8.00 CHV	-	-	-	-	PASSIVE. VALVE INTERNALS HAVE BEEN REMOVED.



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : REACTOR WATER CLEANUP SYSTEM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
2WCS*MOV101	1	37A D-7	4.00 GTV	MOA	0	-	-	SR PASSIVE. NO SR POWER.
2WCS*MOV103	1	37A D-6	4.00 GLV	MOA	0	-	-	SR PASSIVE. NO SR POWER.
2WCS*MOV104	1	37A D-3	4.00 GTV	MOA	0	-	-	SR PASSIVE. NO SR POWER.
2WCS*MOV105	1	37A E-3	4.00 GTV	MOA	0	-	-	SR PASSIVE. NO SR POWER.
2WCS*MOV404A	1	37B E-9	8.00 GLV	MOA	0	-	-	SR PASSIVE; NO SR POWER PER SAFETY EVALUATION #91-087, REV. 2
2WCS*MOV404B	1	37B E-10	8.00 GLV	MOA	0	-	-	SR PASSIVE; NO SR POWER PER SAFETY EVALUATION #91-087, REV. 2



FIRST TEN YEAR INTERVAL  
 NINE MILE POINT NUCLEAR STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

SYSTEM : REACTOR WATER CLEANUP SYSTEM

REPORT DATE: 10/22/93

VALVE NO.	ASME CLASS	P&ID & COORD	SIZE & TYPE	ACTU TYPE	POSITION			JUSTIFICATION FOR EXCLUSION
					NRM	SAF	FAL	
								NOTE: SEVERAL COMPONENTS WITHIN WCS ARE IN SAFETY CLASS 3 PIPING BUT ARE NOT SAFETY-RELATED. THIS SYSTEM IS ISOLATED DURING AN ACCIDENT.





FIRST TEST YEAR INTERVAL  
 NINE MILE POINT NUCLEAR POWER STATION - UNIT 2  
 EXCLUSION JUSTIFICATION

PUMPS

PUMP ID	SYSEM	ASME CLASS	P&ID & COORD	JUSTIFICATION FOR EXCLUSION
2CMS*P2A	CMS	N	82A B-6	THE H2O2 VACUUM PUMPS ACT AS POSITIVE DISPLACEMENT AIR BLOWERS. THEY ARE NON-ASME COMPONENTS.
2CMS*P2B	CMS	N	82A L-6	THE H2O2 VACUUM PUMPS ACT AS POSITIVE DISPLACEMENT AIR BLOWERS. THEY ARE NON-ASME COMPONENTS.
2CSH*P2	CSH	3	33B H-9	KEEP FILL PUMP FOR CSH. SR PASSIVE PER APPENDIX B DETERMINATION 89-32, REV. 3.
2CSL*P2	CSL	3	32A E-6	KEEP FILL PUMP FOR CSL AND RHS (TRAIN A). SR PASSIVE PER APPENDIX B DETERMINATION 89-32, REV. 3.
2ICS*P2	ICS	3	35D G-5	KEEP FILL PUMP FOR ICS. SR PASSIVE PER APPENDIX B DETERMINATION 89-32, REV. 3.
2RHS*P2	RHS	3	31G F-4	KEEP FILL PUMP FOR RHS (TRAIN B&C). SAFETY-RELATED PASSIVE PER APPENDIX B DETERMINATION 89-32, REV. 3.

