

NORTHERN STATES POWER COMPANY  
MONTICELLO NUCLEAR GENERATING PLANT  
DOCKET NO. 50-263 LICENSE NO. DPR-22

ASME CODE SECTION XI  
INSERVICE INSPECTION AND TESTING PROGRAM

SECOND TEN YEAR INSPECTION INTERVAL  
JUNE 30, 1981 - JUNE 29, 1991

SUBMITTED: Revision 5  
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ASME Section XI Pump and Valve Testing Program

ASME Code Edition and Addenda: 1977 Edition through and including Summer  
1978 Addenda

Program Period: June 30, 1981 through June 29, 1991

Pump tests are summarized on the table on page 2-3. Valve tests are summarized on the table beginning on page 2-4. Requests for Relief are included in Section 3.

Key for Pump Testing Table

M - Monthly  
NR - Not Required (constant speed drive or fixed resistance system)  
NA - Not Applicable (sealed bearings)  
RR - See Request for Relief

Key for Valve Testing Table

Q - Quarterly  
R - Refuel  
5 - 5 years  
NR - Not Required  
RR - See Request for Relief  
VH - Vessel Hydro  
CSIQ - Cold Shutdown, Not More Often Than Quarterly  
Inservice valve testing at cold shutdown is defined as: Valve testing should commence not later than 48 hours after shutdown and continue until complete or plant is ready to return to power. Completion of all valve testing is not a prerequisite to return to power. Any testing not completed at one cold shutdown should be performed during the subsequent cold shutdowns to meet the code specified testing frequency.

Key for Valve Test Type

E - Exercise  
LRT - Leak Rate Test  
STPT - Setpoint

Table 2-1 ASME Code Section XI Pump Testing

Pump Description	Applicable ASME Code Class	Test Parameter*							Request for Relief
		N	Pi	P	Q	V	L/P	Tb	
11 Emergency Service Water	3	NR	RR	RR	RR	M	NA	RR	1, 2, 3, 27, 45, 47
12 Emergency Service Water	3	NR	RR	RR	RR	M	NA	RR	1, 2, 3, 27, 45, 47
11 Standby Liquid Control	2	NR	M	M	M	M	M	RR	2, 3, 44, 45, 47
12 Standby Liquid Control	2	NR	M	M	M	M	M	RR	2, 3, 44, 45, 47
11 Core Spray	2	NR	M	M	M	M	NA	RR	2, 3, 45, 47
12 Core Spary	2	NR	M	M	M	M	NA	RR	2, 3, 45, 47
11 Residual Heat Removal	2	NR	M	M	M	M	NA	RR	2, 3, 45, 47
12 Residual Heat Removal	2	NR	M	M	M	M	NA	RR	2, 3, 45, 47
13 Residual Heat Removal	2	NR	M	M	M	M	NA	RR	2, 3, 45, 47
14 Residual Heat Removal	2	NR	M	M	M	M	NA	RR	2, 3, 45, 47
11 RHR Service Water	3	NR	RR	RR	M	M	NA	RR	1, 2, 3, 45, 47
12 RHR Service Water	3	NR	RR	RR	M	M	NA	RR	1, 2, 3, 45, 47
13 RHR Service Water	3	NR	RR	RR	M	M	NA	RR	1, 2, 3, 45, 47
14 RHR Service Water	3	NR	RR	RR	M	M	NA	RR	1, 2, 3, 45, 47
High Pressure Coolant Injection	2	M	M	M	M	M	M	RR	2, 3, 45, 47
Reactor Core Isolation Cooling	2	M	M	M	M	M	M	RR	2, 3, 45, 47
11 Combustible Gas Control Service Water Booster Pumps	3	NR	M	M	M	M	M	RR	2, 3, 45, 47
12 Combustible Gas Control Service Water Booster Pumps	3	NR	M	M	M	M	M	RR	2, 3, 45, 47

\*Refer to Table IWP-3100-1, Inservice Test Quantities  
L/P refers to lubricant level or pressure

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TABLE 2.2 ASME CODE SECTION XI VALVE TESTING

System	Flow Diagram	Valve Number	Valve Description	ASME Code Class	Vlv Cat	Test Proc	Test Type	Test Freq	Applicable ASME Code Paragraph	Relief Request
CGCS	NH-94896	A0-7422A	Recombiner "A" Inlet Isol.	2	A	0255-10-IA-P1	E	Q	IWV-3410	28
						0255-21-IA-P3	E	CS1Q	IWV-3410	
						0137-25	LRT	R	N/A (App. J)	50
CGCS	NH-94897	A0-7422B	Recombiner "B" Inlet Isol.	2	A	0255-10-IA-P1	E	Q	IWV-3410	28
						0255-21-IA-P3	E	CS1Q	IWV-3410	
						0137-25	LRT	R	N/A (App. J)	50
CGCS	NH-94896	A0-7423A	Recombiner "A" Inlet Isol.	2	A	0255-10-IA-P1	E	Q	IWV-3410	28
						0255-21-IA-P3	E	CS1Q	IWV-3410	
						0137-25	LRT	R	N/A (App. J)	50
CGCS	NH-94897	A0-7423B	Recombiner "B" Inlet Isol.	2	A	0255-10-IA-P1	E	Q	IWV-3410	28
						0255-21-IA-P3	E	CS1Q	IWV-3410	
						0137-25	LRT	R	N/A (App. J)	50
CGCS	NH-94896	A0-7424A	A Recombiner 6" Line Isol.	2	A	0255-10-IA-P1	E	Q	IWV-3410	28
						0255-10-IA-P3	E	CS1Q	IWV-3410	
						0137-24	LRT	R	N/A (App. J)	50
CGCS	NH-94897	A0-7424B	B Recombiner 6" Line Isol.	2	A	0255-10-IA-P1	E	Q	IWV-3410	28
						0255-21-IA-P3	E	CS1Q	IWV-3410	
						0137-24	LRT	R	N/A (App. J)	50
CGCS	NH-94896	A0-7425A	A Recombiner 6" Line Isol.	2	A	0255-10-IA-P1	E	Q	IWV-3410	28
						0255-21-IA-P3	E	CS1Q	IWV-3410	
						0137-24	LRT	R	N/A (App. J)	50
CGCS	NH-94897	A0-7425B	B Recombiner 6" Line Isol.	2	A	0255-10-IA-P1	E	Q	IWV-3410	28
						0255-21-IA-P3	E	CS1Q	IWV-3410	
						0137-24	LRT	R	N/A (App. J)	50
CGCS	NH-94896	SV-4033A	Pump Inlet Valve	2	B	0255-21-IA-P1	E	Q	IWV-3410	28
CGCS	NH-94897	SV-4033B	Pump Inlet Valve	2	B	0255-21-IA-P2	E	Q	IWV-3410	28
CGCS	NH-94896	SV-4034A	Pump Bypass Valve	2	B	0255-21-IA-P1	E	Q	IWV-3410	28
CGCS	NH-94897	SV-4034B	Pump Bypass Valve	2	B	0255-21-IA-P2	E	Q	IWV-3410	28

TABLE 2.2 ASME CODE SECTION XI VALVE TESTING

System	Flow Diagram	Valve Number	Valve Description	ASME Code Class	Vlv Cat	Test Proc	Test Type	Test Freq	Applicable ASME Code Paragraph	Relief Request
CGCS	NH-94896	SV-4054A	Backflash Outlet Valve	3	B	0255-21-IA-P1	E	Q	IWV-3410	28
CGCS	NH-94897	SV-4054B	Backflash Outlet Valve	3	B	0255-21-IA-P2	E	Q	IWV-3410	28
CGCS	NH-94896	MO-4043A	Gas Inlet Valve	3	B	0255-21-IA-P1	E	Q	IWV-3410	28
CGCS	NH-94897	MO-4043B	Gas Inlet Valve	3	B	0255-21-IA-P2	E	Q	IWV-3410	28
CGCS	NH-94896	MO-4044A	Recirc. Valve	3	B	0255-21-IA-P1	E	Q	IWV-3410	28
CGCS	NH-94897	MO-4044B	Recirc. Valve	3	B	0255-21-IA-P2	E	Q	IWV-3410	28
CGCS	NH-94896	MO-4047A	Water Inlet Valve	3	B	0255-21-IA-P1	E	Q	IWV-3410	28
CGCS	NH-94897	MO-4047B	Water Inlet Valve	3	B	0255-21-IA-P2	E	Q	IWV-3410	28
CGCS	NH-94896	CGC 12-1	Pump Bypass Line Check	3	C	0255-21-1A-P1	E	Q	IWV-3520	
CGCS	NH-94897	CGC 12-2	Pump Bypass Line Check	3	C	0255-21-IA-P2	E	Q	IWV-3520	
CGCS	NH-94896	RV-4032A	Div I Pressure Relief Valve	3	C	0255-21-IB-P1	STPT	R	IWV-3510	
CGCS	NH-94897	RV-4032B	Div II Pressure Relief Valve	3	C	0255-21-IB-P2	STPT	R	IWV-3510	

System	Flow Diagram	Valve Number	Valve Description	ASME Code Class	Vlv Cat	Test Proc	Test Type	Test Freq	Applicable ASME Code Paragraph	Relief Request
Comp Air	NH-36049-1 (M-131A)	AS-39	Service Air Iso	2	A (P)	0137-19	E LRT	NR R	IWV-3416 N/A (App J)	50
Comp Air	NH-36049-3 (M-131)	CV-1478	Drywell Comp Air Iso	2	A	0137-18	LRT	R	N/A (App J)	28,50
Comp Air	NH-36049-3 (M-131)	CV-7956	Torus Inst Air Iso	2	A	0137-18	LRT	R	N/A (App J)	28,50
Cond Serv System	NH-36039 (M-108)	DM-58	Drywell Demin Wtr Iso	2	A (P)	0137-22	E LRT	NR R	IWV-3416 N/A (App J)	50
Core Spray	NH-36248 (M-122)	AO-14-13A	Loop Inj Check	1	A, C	0255-03-1A-P2A 0255-03-1A-P2B 0255-03-1D-P1	E E LRT	CS1Q R R	IWV-3520 IWV-3300 IWV-3420	
Core Spray	NH-36248 (M-122)	AO-14-13B	Loop Inj Check	1	A, C	0255-03-1A-P2A 0255-03-1A-P2B 0255-03-1D-P2	E E LRT	CS1Q R R	IWV-3520 IWV-3300 IWV-3420	
Core Spray	NH-36248 (M-122)	CS-9-1	11 Loop Pump Disch Check	2	C	0255-03-1A-P1	E	Q	IWV-3520	
Core Spray	NH-36248 (M-122)	CS-9-2	12 Loop Pump Disch Check	2	C	0255-03-1A-P1	E	Q	IWV-3520	
Core Spray	NH-36248 (M-122)	MO-1741	11 Loop Core Spray Suction	2	B	0255-03-1A-P1	E	Q	IWV-3410	28
Core Spray	NH-36248 (M-122)	MO-1742	12 Loop Core Spray Suction	2	B	0255-03-1A-P1	E	Q	IWV-3410	28
Core Spray	NH-36248 (M-122)	MO-1749	11 Loop Test Line to Torus	2	B	0255-03-1A-P1	E	Q	IWV-3410	28

System	Flow Diagram	Valve Number	Valve Description	ASME	Vlv Cat	Test Proc	Test Type	Test Freq	Applicable	Relief Request
				Code Class					ASME Code Paragraph	
Core Spray	NH-36248 (M-122)	MO-1750	12 Loop Test Line to Torus	2	B	0255-03-1A-P1	E	Q	IWV-3410	28
Core Spray	NH-36248 (M-122)	MO-1751	11 Loop Core Spray Injection Outboard	2	A	0255-03-1A-P1 0137-21-1	E LRT	Q R	IWV-3410 N/A (App J)	28 50
Core Spray	NH-36248 (M-122)	MO-1752	12 Loop Core Spray Injection Outboard	2	A	0255-03-1A-P1 0137-21-2	E LRT	Q R	IWV-3410 N/A (App J)	28 50
Core Spray	NH-36248 (M-122)	MO-1753	11 Loop Core Spray Injection Inboard	1	A	0255-03-1A-P1 0255-03-1D-P1 0137-21-1	E LRT LRT	Q R R	IWV-3410 IWV-3420 N/A (App J)	28 50
Core Spray	NH-36248 (M-122)	MO-1754	12 Loop Core Spray Injection Inboard	1	A	0255-03-1A-P1 0255-03-1D-P2 0137-21-2	E LRT LRT	Q R R	IWV-3410 IWV-3420 N/A (App J)	28 50
Core Spray	NH-36248 (M-122)	RV-1745	Disch Line Relief	2	C	0255-03-1B-P1	STPT	R	IWV-3510	
Core Spray	NH-36248 (M-122)	RV-1746	Disch Line Relief	2	C	0255-03-1B-P2	STPT	R	IWV-3510	
CRD	NH-36245 (M-119)	CRD-114	Scram Riser Check	2	C			RR		9
CRD	NH-36245 (M-119)	CRD-115	Accumulator Charging Water Check	2	C	0255-01-1D-P2	E	CS1Q	IWV-3520	55
CRD	NH-36245 (M-119)	CRD-138	Cooling Water Check	2	C	0255-01-1D-P1	E	R	IWV-3520	52
CRD	NH-36245 (M-119)	CV-126	Inlet Scram Valve	1	B			RR		9
CRD	NH-36245 (M-119)	CV-127	Outlet Scram Valve	2	B			RR		9



System	Flow Diagram	Valve Number	Valve Description	ASME Code Class	Vlv Cat	Test Proc	Test Type	Test Freq	Applicable ASME Code Paragraph	Relief Request
RCIC	NH-36252 (M-126)	RCIC-41	Check Valve to CST	2	C	0255-08-1A-P1	E	Q	IWV-3520	
RCIC	NH-36251 (M-125)	RCIC-57	Vac Bkr Check	2	C	0255-08-1D-P1	LRT	R	IWV-3420	65
RCIC	NH-36251 (M-125)	RCIC-59	Vac Bkr Check	2	C	0255-08-1D-P1	LRT	R	IWV-3420	65
RCIC	NH-36251 (M-125)	RV-2097	Relief Valve	3	C	0255-08-1B	STPT	R	IWV-3510	
RCIC	NH-36252 (M-126)	RV-2103	RCIC Suction Line Relief Valve	2	C	0255-08-1B	STPT	R	IWV-3510	
Recirc	NH-36243 (M-117)	CV-2790	Rx Water Sample Isolation	2	A	0255-09-1A-P1 0255-09-1A-P3 0137-23	E E LRT	Q R R	IWV-3410 IWV-3300 N/A App J)	10, 28 50
Recirc	NH-36243 (M-117)	CV-2791	Rx Water Sample Isolation	2	A	0255-09-1A-P1 0255-09-1A-P3 0137-23	E E LRT	Q R R	IWV-3410 IWV-3300 N/A App J)	10, 28 50
Recirc	NH-36243 (M-117)	MO-2-43A	Recirc Suction	1	B	0255-09-1A-P2 0255-09-1A-P3	E E	CSIQ Q	IWV-3410 IWV-3300	28
Recirc	NH-36243 (M-117)	MO-2-43B	Recirc Suction	1	B	0255-09-1A-P2 0255-09-1A-P3	E E	CSIQ Q	IWV-3410 IWV-3300	28
Recirc	NH-36243 (M-117)	MO-2-53A	Recirc Discharge	1	B	0255-09-1A-P2 0255-09-1A-P3	E E	CSIQ R	IWV-3410 IWV-3300	28
Recirc	NH-36243 (M-117)	MO-2-53B	Recirc Discharge	1	B	0255-09-1A-P2 0255-09-1A-P3	E E	CSIQ R	IWV-3410 IWV-3300	28

TABLE 2.2 ASME CODE SECTION XI VALVE TESTING

System	Flow Diagram	Valve Number	Valve Description	ASME Code Class	Vlv Cat	Test Proc	Test Type	Test Freq	Applicable ASME Code Paragraph	Relief Request
Recirc	NH-36243 (M-117)	#11 Recirc Pump	Block Valve on Upper Seal Leakoff	2	B	0255-09-IA-P3	E	CSIQ	IWV-3410	5, 28
Recirc	NH-36243 (M-117)	#12 Recirc Pump	Block Valve on Upper Seal Leakoff	2	B	0255-09-IA-P3	E	CSIQ	IWV-3410	5, 28
Recirc	NH-36244 (M-118)	XR-25-1	Recirc Seal Injection Check		A,C	0137-20-1	LRT	R	IWV-3420	54
Recirc	NH-36244 (M-118)	XR-25-2	Recirc Seal Injection Check		A,C	0137-20-2	LRT	R	IWV-3420	54
Recirc	NH-36243 (M-117)	XR-27-1	Recirc Seal Injection Check		A,C	0137-20-1	LRT	R	IWV-3420	54
Recirc	NH-36243 (M-117)	XR-27-2	Recirc Seal Injection Check		A,C	0137-20-2	LRT	R	IWV-3420	54
RHR	NH-36247 (M-121)	AO-10-46A	LPCI Loop Check	1	A,C	0255-04-1A-P2 0255-04-1A-P3 0255-04-1D-P1	E E LRT	CSIQ R R	IWV-3410 IWV-3300 IWV-3420	

TABLE 2.2 ASME CODE SECTION XI VALVE TESTING

System	Flow Diagram	Valve Number	Valve Description	ASME Code Class	Vlv Cat	Test Proc	Test Type	Test Freq	Applicable ASME Code Paragraph	Relief Request
RHR	NH-36246 (M-120)	AO-10-46B	LPCI Loop Check	1	A,C	0255-04-1A-P2 0255-04-1A-P3 0255-04-1D-P1	E E LRT	CSIQ R R	IWV-3410 IWV-3300 IWV-3420	
RHR	NH-36247 (M-121)	CV-1994	RHR Pump Min Flow	2	B	0255-04-1A-P1	E	Q	IWV-3410	28
RHR	NH-36246 (M-120)	CV-1995	RHR Pump Min Flow	2	B	0255-04-1A-P1	E	Q	IWV-3410	28
RHR	NH-36247 (M-121)	CV-1996	RHR Pump Min Flow	2	B	0255-04-1A-P1	E	Q	IWV-3410	28
RHR	NH-36246 (M-120)	CV-1997	RHR Pump Min Flow	2	B	0255-04-1A-P1	E	Q	IWV-3410	28
RHR	NH-36247 (M-121)	MO-1988	Shutdown Clg Suction	2	B	0255-04-1A-P2	E	CSIQ	IWV-3410	28
RHR	NH-36246 (M-120)	MO-1989	Shutdown Clg Suction	2	B	0255-04-1A-P2	E	CSIQ	IWV-3410	28
RHR	NH-36247 (M-121)	MO-2006	Disch to Torus	2	A	0255-04-1A-P1	E LRT	Q NR	IWV-3410 exempt per App J	28 50
RHR	NH-36246 (M-120)	MO-2007	Disch to Torus	2	A	0255-04-1A-P1	E LRT	Q NR	IWV-3410 exempt per App J	28 50
RHR	NH-36247 (M-121)	MO-2008	Torus Clg Inlet	2	A	0255-04-1A-P1	E LRT	Q NR	IWV-3410 exempt per App J	28 50
RHR	NH-36246 (M-120)	MO-2009	Torus Clg Inlet	2	A	0255-04-1A-P1	E LRT	Q NR	IWV-3410 exempt per App J	28 50

TABLE 2.2 ASME CODE SECTION XI VALVE TESTING

System	Flow Diagram	Valve Number	Valve Description	ASME Code Class	Vlv Cat	Test Proc	Test Type	Test Freq	Applicable ASME Code Paragraph	Relief Request
RHR	NH-36247 (M-121)	MO-2029	Shutdown Clg Iso (Inboard)	1	A	0255-04-1A-P2 0255-04-1A-P3 0255-04-1D-P5 0137-11	E E LRT LRT	CSIQ CSIQ R R	IWV-3410 IWV-3300 IWV-3420 (N/A App J)	28  50 50
RHR	NH-36247 (M-121)	MO-2030	Shutdown Clg Iso (Outboard)	1	A	0255-04-1A-P2 0255-04-1D-P6 0137-11	E LRT LRT	CSIQ R R	IWV-3410 IWV-3420 (N/A App J)	28 50 50
RHR	NH-36247 (M-121)	MO-2032	Disch to Waste Surge	2	B	0255-04-1A-P1	E	Q	IWV-3410	28
RHR	NH-36247 (M-121)	MO-4085A	RHR Intertie	1	B	0255-04-1A-P1	E	Q	IWV-3410	28
RHR	NH-36246 (M-120)	MO-4085B	RHR Intertie	1	B	0255-04-1A-P1	E	Q	IWV-3410	28
RHR	NH-36247 (M-121)	MO-4086	RHR Intertie	1	B	0255-04-1A-P1	E	Q	IWV-3410	28
RHR	NH-36247 (M-121)	RHR-2-1	RHR Pump Discharge Check	2	C	0255-04-1A-P1	E	Q	IWV-3520	
RHR	NH-36246 (M-120)	RHR-2-2	RHR Pump Discharge Check	2	C	0255-04-1A-P1	E	Q	IWV-3520	
RHR	NH-36247 (M-121)	RHR-2-3	RHR Pump Discharge Check	2	C	0255-04-1A-P1	E	Q	IWV-3520	
RHR	NH-36246 (M-120)	RHR-2-4	RHR Pump Discharge Check	2	C	0255-04-1A-P1	E	Q	IWV-3520	
RHR	NH-36247 (M-121)	RHR-8-1	RHR Min Flow Check	2	C	0255-04-1A-P4	E	5	IWV-3520	60
RHR	NH-36246 (M-120)	RHR-8-2	RHR Min Flow Check	2	C	0255-04-1A-P5	E	5	IWV-3520	60
RHR	NH-36247 (M-121)	RV-1990	Pump Suction Relief	2	C	0255-04-1B-P1	STPT	R	IWV-3510	

System	Flow Diagram	Valve Number	Valve Description	ASME Code Class	Vlv Cat	Test Proc	Test Type	Test Freq	Applicable ASME Code Paragraph	Relief Request
RHR SW	NH-36664 (M-112)	CV-1729	RHR SW Control Valve	3	B			NR	exempt per I WV-1200a	
RIIR SW	NH-36663 (M-811)	PCV-3004	Pump Motor Cooling Line PCV	3	B			NR	exempt per I WV-1200a	
RHR SW	NH-36663 (M-811)	PCV-3005	Pump Motor Cooling Line PCV	3	B			NR	exempt per I WV-1200a	
RHR SW	NH-36663 (M-811)	RHR-SW 1-1	RHR SW Pump Disch Check	3	C	0255-05-1A-P1	E	Q	I WV-3520	
RHR SW	NH-36663 (M-811)	RHR-SW 1-2	RHR SW Pump Disch Check	3	C	0255-05-1A-P1	E	Q	I WV-3520	
RHR SW	NH-36663 (M-811)	RHR-SW 1-3	RHR SW Pump Disch Check	3	C	0255-05-1A-P1	E	Q	I WV-3520	
RHR SW	NH-36663 (M-811)	RHR-SW 1-4	RHR SW Pump Disch Check	3	C	0255-05-1A-P1	E	Q	I WV-3520	
RHR SW	NH-36247 (M-121)	RHR-SW-17	SW Emerg Supply to RHR	2	C	0255-05-1A-P2 0255-05-1A-P3	E E	CS1Q 5	I WV-3520 I WV-3520	66 66
RHR SW	NH-36663 (M-811)	RV-3038	Pump Motor Cooling Line RV	3	C	0255-05-1B-P1	STPT	R	I WV-3510	
RHR SW	NH-36663 (M-811)	RV-3039	Pump Motor Cooling Line RV	3	C	0255-05-1B-P2	STPT	R	I WV-3510	
RHR SW	NH-36664 (M-112)	RV-3202	RHR HX RV	3	C	0255-05-1B-P1	STPT	R	I WV-3510	
RHR SW	NH-36664 (M-112)	RV-3203	RHR HX RV	3	C	0255-05-1B-P2	STPT	R	I WV-3510	

System	Flow Diagram	Valve Number	Valve Description	ASME Code Class	Vlv Cat	Test Proc	Test Type	Test Freq	Applicable ASME Code Paragraph	Relief Request
RHR SW	NH-36663 (M-811)	SW-21-1	Motor Cooling Line Check	3	C	0255-05-1D	E	R	IWV-3520	57
RHR SW	NH-36663 (M-811)	SW-21-2	Motor Cooling Line Check	3	C	0255-05-1D	E	R	IWV-3520	57
RWCU	NH-36254 (M-128)	MO-2397	Pump Suction Iso (Inboard)	1	A	0255-14-1A-P1 0255-14-1A-P2 0137-12	E E LRT	Q R R	IWV-3410 IWV-3300 N/A (App J)	28 50
RWCU	NH-36254 (M-128)	MO-2398	Pump Suction Iso (Outboard)	1	A	0255-14-1A-P1 0137-12	E LRT	Q R	IWV-3410 N/A (App J)	28 50
RX INST	NH-36242 (M-116)	X-27A	Excess Flow Check Valve	1	A,C	0255-10-1D 0255-20-1D-P1	LRT LRT	VH VH	IWV-3520 IWV-3420	39
RX INST	NH-36242 (M-116)	X-27B	Excess Flow Check Valve	1	A,C	0255-10-1D 0255-20-1D-P1	LRT LRT	VH VH	IWV-3520 IWV-3420	39
RX INST	NH-36248 (M-122)	X-27C	Excess Flow Check Valve	1	A,C	0255-10-1D 0255-20-1D-P1	LRT LRT	VH VH	IWV-3520 IWV-3420	39
RX INST	NH-36242 (M-116)	X-28A	Excess Flow Check Valve	1	A,C	0255-10-1D 0255-20-1D-P1	LRT LRT	VH VH	IWV-3520 IWV-3420	39
RX INST	NH-36242 (M-116)	X-28B	Excess Flow Check Valve	1	A,C	0255-10-1D 0255-20-1D-P1	LRT LRT	VH VH	IWV-3520 IWV-3420	39
RX INST	NH-36242 (M-116)	X-28C	Excess Flow Check Valve	1	A,C	0255-10-1D 0255-20-1D-P1	LRT LRT	VH VH	IWV-3520 IWV-3420	39
RX INST	NH-36242 (M-116)	X-28D	Excess Flow Check Valve	1	A,C	0255-10-1D 0255-20-1D-P1	LRT LRT	VH VH	IWV-3520 IWV-3420	39
RX INST	NH-36242 (M-116)	X-28E	Excess Flow Check Valve	1	A,C	0255-10-1D 0255-20-1D-P1	LRT LRT	VH VH	IWV-3520 IWV-3420	39
RX INST	NH-36241 (M-115)	X-28F	Excess Flow Check Valve	2	A,C	0255-20-1D-P2	LRT	R	IWV-3520 IWV-3420	40

Section 3 REQUESTS FOR RELIEF FROM ASME CODE SECTION XI  
REQUIREMENTS DETERMINED TO BE IMPRACTICAL

This Section contains Requests for Relief from those ASME Code Section XI requirements which are impractical to implement on the Monticello Nuclear Generating Plant.

Requests for Relief are numbered consecutively. Requests submitted in earlier ASME Code Section XI Inservice Inspection and Testing Program descriptions have, where possible, been carried over to this program with their original identification numbers.

ASME Code changes or NRC review may result in the deletion of a particular Request for Relief. The following Monticello Requests have been deleted:

4	29
7	32
11	33
12	34
14	35
17	36
19	37
20	38
21	43
22	46
25	48

The following Requests for Relief are new or substantially revised from those contained in the ASME Code Section XI Inservice Inspection and Testing Program used for the first ten year interval:

1	40	55
2	41	56
3	42	57
5	44	58
9	45	59
10	47	60
15	49	61
16	50	62
18	51	63
23	52	64
24	53	65
28	54	66

Revision 5  
3/22/85

2. REQUEST FOR RELIEF

COMPONENT	FUNCTION	APPLICABLE ASME CODE CLASS
11, 12 Emergency Service Water	Provide cooling water to the emergency diesel generators and critical reactor building equipment.	3
11, 12 Standby Liquid Control	Provide a redundant means of reactor shutdown as a backup to the Control Rod Drive System.	2
11, 12 Core Spray	Provide cooling water to the reactor under emergency conditions.	2
11, 12, 13, 14 Residual Heat Removal	Provide cooling water to the reactor and to containment under accident conditions.	2
11, 12, 13, 14 RHR Service Water	Provide cooling water to the RHR heat exchangers.	3
High Pressure Coolant Injection	Provide cooling water to the reactor under emergency conditions.	2
Reactor Core Isolation Cooling	Provide cooling water to the reactor under emergency conditions.	2
11, 12, Combustible Gas Control Service Water Booster Pumps	Provide cooling water to the CGCS Recombiner exhaust.	3

Code Requirement

Pump bearing temperature will not be measured as required by IWP-3100 and IWP-4310.

Basis

There is no instrumentation installed to measure lube oil or bearing temperature. The use of external temperature measuring devices is not considered meaningful because of the environmental influence on these parameters.



3. REQUEST FOR RELIEF

COMPONENT	FUNCTION	APPLICABLE CODE CLASS
11, 12 Emergency Service Water Pumps	Provide cooling water to the emergency diesel generators and critical reactor building equipment	3
11, 12 Standby Liquid Control Pumps	Provide a redundant means of reactor shutdown as a backup to the Control Rod Drive System	2
11, 12 Core Spray Pumps	Provide cooling water to the reactor under emergency conditions	2
11, 12, 13, 14 Residual Heat Removal Pumps	Provide cooling water to the reactor and to containment under accident conditions	2
11, 12, 13, 14 RHR Service Water Pumps	Provide cooling water to the RHR heat exchangers	3
High Pressure Cooling Injection	Provide cooling water to the reactor under emergency conditions	2
Reactor Core Isolation Cooling	Provide cooling water to the reactor under emergency conditions	2
11, 12, Combustible Gas Control Service Water Booster Pumps	Provide cooling water to the CGCS Recombiner exhaust	3

CODE REQUIREMENT

Displacement vibration amplitude will not be used to evaluate the condition of the pump as required by IWP-3110, 3210, and 4500.

BASIS

We prefer to measure vibration velocity due to its superiority in detecting wear and interior machine failure. Existing instrumentation reads out in velocity units.

ALTERNATE TESTING

Vibration velocity measurements will be used to evaluate pump condition action will be taken as appropriate per the attached table.

SCHEDULE FOR IMPLEMENTATION

February 28, 1978.

3-5

Revision 5  
3/22/85

47. REQUEST FOR RELIEF

COMPONENT	FUNCTION	APPLICABLE ASME CODE CLASS
11 and 12 Standby Liquid Control Pumps	Provide a redundant means of reactor shutdown as a backup to the Control Rod Drive System.	2
11 and 12 Core Spray Pumps	Provide cooling water to the reactor under emergency conditions.	2
11, 12, 13 and 14 Residual Heat Removal (RHR) Pumps	Provide cooling water to the reactor and containment under emergency conditions and remove decay heat during shutdown.	2
High Pressure Coolant Injection Pumps	Provide cooling water to the reactor under emergency conditions.	2
Reactor Core Isolation Cooling Pump	Provide cooling water to the reactor under emergency conditions	2
11, 12, 13 and 14 Service Water Pumps	Provide cooling water to the RHR heat exchangers.	3
11 and 12 Emergency Service Water Pumps	Provide cooling water to the emergency generators and critical Reactor Building equipment.	3
11 and 12 Combustible Gas Control Service Water Booster Pumps	Provide cooling water to the CGCS Recombiner exhaust.	3

Code Requirement

Pumps will not be declared inoperable when the differential pressure is a high value in the Required Action Range as required by IWP-3230(b).

3-30

Revision 5  
3/22/85

59. REQUEST FOR RELIEF

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COMPONENT	FUNCTION	APPLICABLE ASME CODE CLASS	VALVE CATEGORY
ESW-4-1	Prevents reversal of flow into redundant emergency service water line.	3	C
ESW-4-2		3	C

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CODE REQUIREMENT

These valves will not be tested as required by IWV-3520.

BASIS

There is no means available to verify that the disc travels promptly to the seat on cessation or reversal of flow for normally open valves or that the disc moves promptly away from the seat when the closing differential is removed and flow through the valve is initiated for normally closed valves.

ALTERNATE TESTING

These valves will be partially stroke exercised quarterly and partially disassembled to manually full stroke exercise their discs during the 1982 refueling outage. If the mechanical operability is satisfactory and visual inspection shows each valve to be in good physical condition, then the valves will be disassembly-exercised every five (5) years thereafter. If deficiencies are noted, they will be corrected and the above inspection process repeated each refueling outage until a satisfactory inspection is completed upon which the disassembly-exercising will revert back to a 5-year interval. (See letter from D M Musolf to Director NRR, subject, "Supplemental Information Concerning Inservice Testing Program", dated August 12, 1982).

SCHEDULE FOR IMPLEMENTATION

See Alternate Testing.

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Revision 5  
9/22/85

66. REQUEST FOR RELIEF

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COMPONENT	FUNCTION	APPLICABLE ASME CODE CLASS	VALVE CATEGORY
RHR-SW-17	Allows service water as emergency supply to the RHR system	2	C

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CODE REQUIREMENT

This valve will not be tested as required by IWV-3520.

BASIS

There is no means available to verify that the disc travels promptly to the seat on cessation or reversal of flow for normally open valves or that the disc moves promptly away from the seat when the closing differential is removed and flow through the valve is initiated for normally closed valves.

ALTERNATE TESTING

This valve will be partially stroke exercised at cold shutdown (CSIQ). During the 1982 refueling the valve was partially disassembled to manually full stroke exercise the disc. The mechanical operability was satisfactory and visual inspection showed the valve to be in good physical condition. The valve will be disassembly-exercised every five (5) years thereafter. If deficiencies are noted, they will be corrected and the above inspection process repeated each refueling outage until a satisfactory inspection is completed upon which the disassembly-exercising will revert back to a 5-year interval. (See letter from D M Musolf to Director NRR, subject, "Supplemental Information Concerning Inservice Testing Program", dated August 12, 1982). To partially stroke exercise this valve quarterly would make the RHR system inoperable and place us in a Limiting Condition of Operation.

SCHEDULE FOR IMPLEMENTATION

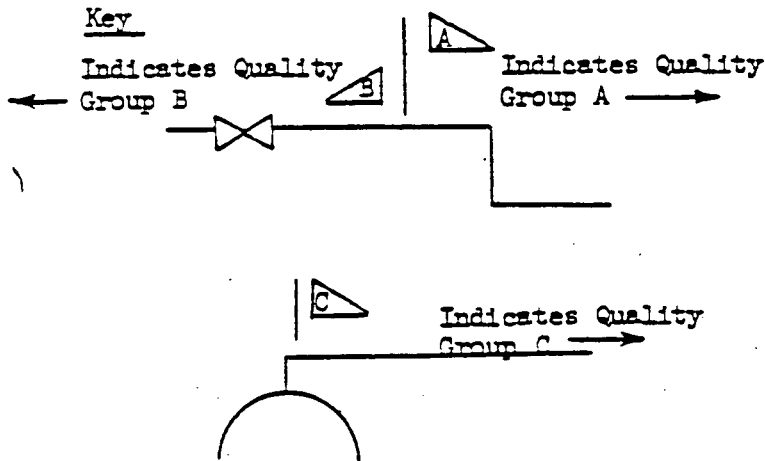
See Alternate Testing.

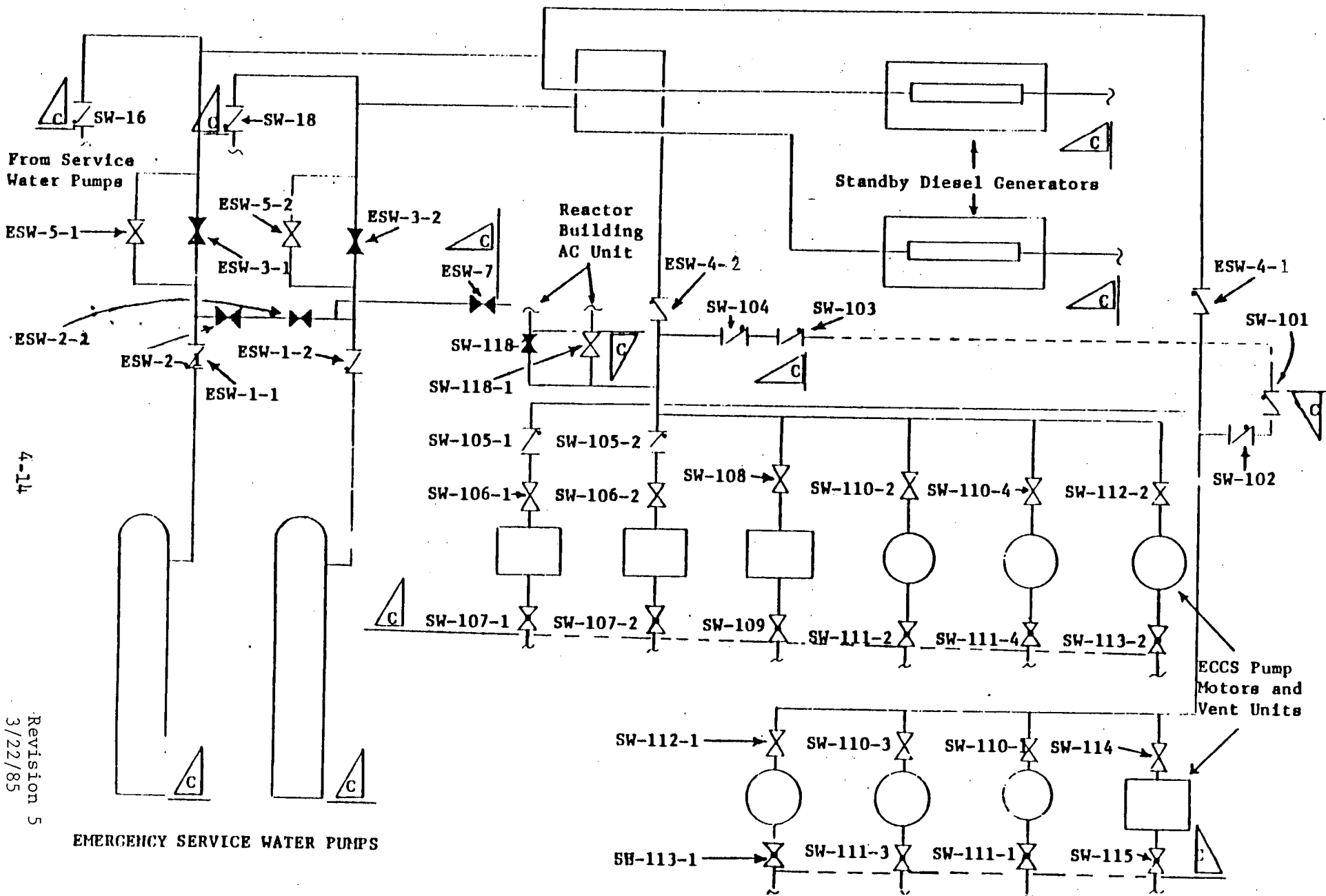
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SECTION 4 QUALITY GROUP CLASSIFICATION DRAWINGS

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From Service Water Pumps

Reactor Building AC Unit

Standby Diesel Generators

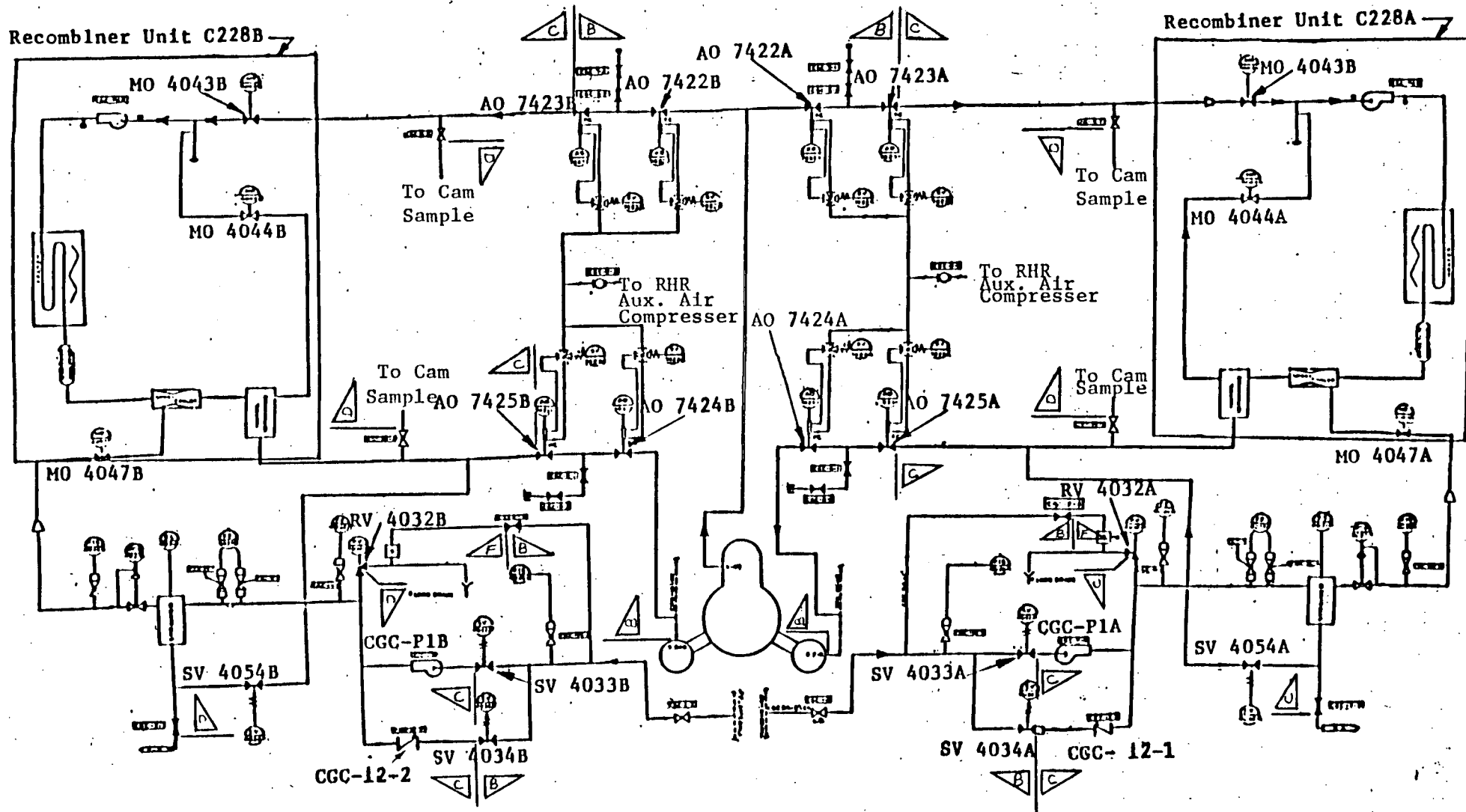
ECCS Pump Motors and Vent Units

EMERGENCY SERVICE WATER PUMPS

EMERGENCY SERVICE WATER

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Combustible Gas Control

4-22

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