

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

INSERVICE INSPECTION AND TESTING PROGRAM

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

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Revision 3  
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TABLE 1.1  
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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS
	<u>EXAMINATION CATEGORY B-A; PRESSURE RETAINING WELDS IN REACTOR VESSEL</u>								
B1.10	<u>SHELL WELDS</u>								
B1.11	<u>CIRCUMFERENTIAL</u>	FIGURE 2	L=57'						RELIEF NO. 16
		VCBB-1	HD - SHELL	VOL	1	6'8" 100%	ONE	12	
						6'8" 100%	THREE	23	
		VCBA-2	BELTLINE	-	1	NOT ACCESSIBLE	-	-	
		VCBB-3	COURSE 2-3	-	1	NOT ACCESSIBLE	-	-	
		VCBB-4	COURSE 3-4	VOL	1	4'5" 100%	ONE	8	
						10'8" 100%	TWO	26	
						5'4" 100%	THREE	36	
B1.12	<u>LONGITUDINAL</u>	FIGURE 2	L=11'						RELIEF NO. 16
		VLAA-1	27" BELTLINE	VOL	1	4' 100%	THREE	36	
		VLAA-2	27" BELTLINE	VOL	1	9' (1'4" Belt) 100%	TWO	82	
		VLBA-1	117" BELTLNE	-	1	NOT ACCESSIBLE	-	-	
		VLBA-2	117" BELTLNE	-	1	NOT ACCESSIBLE	-	-	
		VLCA-1	COURSE 3	VOL	1	5'8" 100%	THREE	52	
		VLCA-2	COURSE 3	VOL	1	5'8" 100%	ONE	52	
		VLDB-1	COURSE 4	VOL	1	4' 100%	THREE	36	
		VLDB-2	COURSE 4	VOL	1	4'9" 100%	ONE	43	
B1.20	<u>HEAD WELDS</u>								
B1.21	<u>CIRCUMFERENTIAL</u>	HCCB-2	CLOSURE HD FIGURE 5 L=25'	VOL	1	8.5' MIN 100%	ONE	34	
						8' MIN 100%	TWO	66	
						8.5' MIN 100%	THREE	100	

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B1.21	(CONTINUED)	HCAB-1	BOT HD FIGURE 5 L=44'	VOL	1	3 100% 3 100% 3 100%	ONE TWO THREE	7 14 20	
B1.22	<u>MERIDONAL</u>	WELD NO'S	FIGURE 5	VOL	16				
		HMCB-1	CLOSURE HD	VOL	1	7 100%	ONE	100	
		HMCB-2	L=7'	VOL	1	7' 100%	ONE	100	
		HMCB-3		VOL	1	7' 100%	THREE	100	
		HMCB-4		VOL	1	7' 100%	THREE	100	
		HMCB-5		VOL	1	7' 100%	TWO	100	
		HMCB-6		VOL	1	7' 100%	TWO	100	
		HMAB-1	BOT HD	VOL	1	2'5" 100%	ONE	100	
		HMAB-2	L=6'2"	VOL	1	2'5" 100%	TWO	100	
		HMAB-3		VOL	1	2'5" 100%	TWO	100	
		HMAB-4		VOL	1	2'5" 100%	THREE	100	
		HMAB-5		VOL	1	2'5" 100%	THREE	100	
		HMAB-6		VOL	1	2'5" 100%	ONE	100	
		HMAB-7		VOL	1	2'5" 100%	ONE	100	
		HMAB-8		VOL	1	2'5" 100%	ONE	100	
		HMAB-9		VOL	1	2' 100%	ONE	100	
		HMAB-10		VOL	1	2' 100%	THREE	100	
B1.30	<u>SHELL-TO-FLANGE WELD</u>	VCBC-5	FIGURE 6 L=57'	VOL	1	19' MIN 100% 19' MIN 100% 19' MIN 100%	ONE TWO THREE	33 67 100	
B1.40	<u>HEAD-TO-FLANGE WELD</u>	HCCC-1	FIGURE 5&6 L=57'	VOL	1	19' MIN 100% 19' MIN 100% 19' MIN 100%	ONE TWO THREE	33 67 100	
B1.50	<u>REPAIR WELDS</u>	NONE	-	-	-	-	-	-	

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS
	EXAMINATION CATEGORY B-D, FULL PENETRATION WELDS IN VESSELS-INSPECTION PROGRAM A								
	REACTOR VESSEL								
B3.10	NOZZLE-TO-VESSEL WELDS &								
B3.20	NOZZLE INSIDE RADIUS SECTION	WELD NO'S	FIGURE 4	VOL	29				
	HEAD VENT N7	HVAD-1	ISI-15		1	100%	ONE	33	
	HEAD SPRAY N6A	RHDD-1	ISI-11D		1	100%	TWO	67	
	HEAD SPARE N6B	HSBD-1	ISI-14		1	100%	THREE	100	
	STANDBY LIQUID CONTROL N10	CPAE-1	ISI-17		1	100%	TWO	100	
	MAIN STEAM N3A	MSAD-1	ISI-1		1	100%	ONE	25	
	MAIN STEAM N3B	MSBD-1	ISI-2		1	100%	THREE	75	
	MAIN STEAM N3C	MSCD-1	ISI-3		1	100%	TWO	50	
	MAIN STEAM N3D	MSDD-1	ISI-4		1	100%	THREE	100	
	FEEDWATER N4A	FWAD-1	ISI-5A		1*	100%	ONE	25	*2 per refueling outage (NRC letter to Mr. Mayer, dated 8-27-81)
	FEEDWATER N4B	FWBD-1	ISI-5A		1*	100%	TWO	50	
	FEEDWATER N4C	FWCD-1	ISI-5B		1*	100%	TWO	75	
	FEEDWATER N4D	FWDD-1	ISI-5B		1*	100%	THREE	100	
	CORE SPRAY N5A	CSAD-1	ISI-6A		1	100%	THREE	100	
	CORE SPRAY N5B	CSBD-1	ISI-6B		1	100%	ONE	50	
	CONTROL ROD DRIVE RETURN N9	CRAD-1	ISI-10		1	100%	ONE	100	
	RECIRC OUTLET N1A	RCAD-1	ISI-13A		1	100%	ONE	50	
	RECIRC OUTLET N1B	RCBD-1	ISI-13B		1	100%	THREE	100	

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B3.10 & B3.20	(CONTINUED)	WELD NO'S	FIGURE 4	VOL	29				
	RECIRC INLET N2A	RRAD-1	ISI-13D		1	100%	ONE	10	
	N2D	RRDD-1	ISI-13D		1	100%	ONE	20	
	N2J	RRJD-1	ISI-13C		1	100%	ONE	30	
	N2H	RRHD-1	ISI-13C		1	100%	TWO	40	
	N2E	RRED-1	ISI-13D		1	100%	TWO	50	
	N2G	RRGD-1	ISI-13C		1	100%	TWO	60	
	N2B	RRBD-1	ISI-13D		1	100%	THREE	70	
	N2F	RRFD-1	ISI-13C		1	100%	THREE	80	
	N2C	RRCD-1	ISI-13D		1	100%	THREE	90	
	N2K	RRKD-1	ISI-13C		1	100%	THREE	100	
	JET PUMP INSTR								
	N8A	JPAD-1	ISI-16		1	100%	ONE	50	
	N8B	JPBD-1	ISI-16		1	100%	THREE	100	
B3.30 & B3.40	PRESSURIZER VESSEL	N/A	-	-	-	-	-	-	
B3.50 & B3.60	STEAM GENERATORS	N/A	-	-	-	-	-	-	
B3.70 & B3.80	HEAT EXCHANGERS	N/A	-	-	-	-	-	-	

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	EXAMINATION CATEGORY B-F; PRESSURE RETAINING DISSIMILAR METAL WELDS								
	REACTOR VESSEL								
B5.10	NOZZLE-TO-SAFE END WELDS	WELD NO'S	FIGURE 4	S, VOL	25				
	HEAD VENT N7	HVAF-2	ISI-15		1	100%	ONE	33	
	HEAD SPRAY N6A	RHD-2	ISI-11D		1	100%	TWO	67	
	HEAD SPARE N6B	HSBF-2	ISI-14		1	100%	THREE	100	
	STANDBY LIQUID CONTROL N10	CPAF-2	ISI-17		1	100%	TWO	100	
	CORE SPRAY N5A	CSAF-2	ISI-6A		1	100%	THREE	100	
	CORE SPRAY N5B	CSBF-2	ISI-6B		1	100%	ONE	50	
	CRD RETURN N9	CRAF-2	ISI-10		1	100%	ONE	100	
	RECIRC OUTLET N1A	RCAF-2	ISI-13A		1	100%	ONE	50	
	RECIRC OUTLET N1B	RCBF-2	ISI-13B		1	100%	THREE	100	
	RECIRC INLET N2A	RRAF-2	ISI-13D		1	100%	ONE	10	
	N2D	RRDF-2	ISI-13D		1	100%	ONE	20	
	N2J	RRJF-2	ISI-13C		1	100%	ONE	30	
	N2H	RRHF-2	ISI-13C		1	100%	TWO	40	
	N2E	RREF-2	ISI-13D		1	100%	TWO	50	
	N2G	RRGF-2	ISI-13C		1	100%	TWO	60	
	N2B	RRBF-2	ISI-13D		1	100%	THREE	70	
	N2F	RRFF-2	ISI-13C		1	100%	THREE	80	
	N2C	RRCF-2	ISI-13D		1	100%	THREE	90	
	N2K	RRKF-2	ISI-13C		1	100%	THREE	100	

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B5.10	(CONTINUED)	WELD NO'S	FIGURE 4	S, VOL	25				
	JET PUMP INSTR								
	N8A	JPAF-2	ISI-16		1	100%	ONE	50	
	N8B	JPBF-2	ISI-16		1	100%	THREE	100	
	INSTRUMENT LINES								
	N11A	VIAF-2	ISI-18		1	100%	ONE	25	
	N11B	VIBF-2	ISI-18A		1	100%	TWO	50	
	N12A	VICF-2	ISI-19		1	100%	THREE	75	
	N12B	VIDF-2	ISI-19		1	100%	THREE	100	
B5.20	<u>PRESSURIZER</u>	N/A	-	-	-	-	-	-	
B5.30	<u>STEAM GENERATORS</u>	N/A	-	-	-	-	-	-	
B5.40	<u>HEAT EXCHANGERS</u>	N/A	-	-	-	-	-	-	
	<u>PIPING</u>								
B5.50	<u>SAFE END WELDS</u>								
	CORE SPRAY A	CSP-90-7	TW7-8"EF	S, VOL	4	3	100%	ONE	75
		CSP-90-3	ISI-6A			1	100%	THREE	100
		CSAF-14							
		CSAF-18							
	CORE SPRAY B	CSP-270-7	TW11-8"EF	S, VOL	4	2	100%	ONE	50
		CSP-270-9	ISI-6B			2	100%	THREE	100
		CSBF-12							
		CSBF-16							
	HPCI-STEAM	PSAF-2B	PS18-8"EF	S, VOL	2	2	100%	TWO	100
		PSAF-2C	ISI-7						

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT		INSPECTION PERIOD	RUNNING %	REMARKS
B8.10	EXAMINATION CATEGORY B-H; VESSEL SUPPORTS									
	REACTOR VESSEL INTEGRALLY WELDED ATTACHMENTS									
	SUPPORT SKIRT	HCAH-2	FIGURE 5 L=53'	S	1	17 18 18	100% 100% 100%	ONE TWO THREE	32 66 100	
	STABILIZER LUGS	LUGS 1-4	FIGURE 6	S	4					RELIEF NO. <u>51</u>
B8.20	PRESSURIZER	N/A	-	-	-	-	-	-	-	
B8.30	STEAM GENERATORS	N/A	-	-	-	-	-	-	-	
B8.40	HEAT EXCHANGERS	N/A	-	-	-	-	-	-	-	

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS
*	<u>EXAMINATION CATEGORY B-J;</u> <u>PRESSURE RETAINING</u> <u>WELDS IN PIPING</u>								* ASME SECTION XI 1974 EDITION THRU SUMMER 1975 ADDENDA USED FOR DETERMING THE <u>EXTENT</u> OF EXAM- INATIONS.
B9.10	<u>NOMINAL PIPE SIZE</u> <u>4 IN. AND GREATER</u>								
B9.11 & B9.12	<u>CIRCUMFERENTIAL AND</u> <u>*LONGITUDINAL WELDS</u>								* THE LESSER OF 12 IN. OR 1 PIPE DIAMETER LENGTH FROM SCHEDULED CIRC WELD INTER- SECTION WILL BE EXAMINED.
	MAIN STEAM A	BUTTWELDS	PS1-18"ED ISI-1	S, VOL	21	3 NONE 3 100%	ONE TWO THREE	14 14 29	
		BUTTWELDS	PS1-6"ED ISI-1	S, VOL	6	1 NONE 1 100%	ONE TWO THREE	17 17 33	
	MAIN STEAM B	BUTTWELDS	PS2-18"ED ISI-2	S, VOL	26	NONE 4 3 100% 100%	ONE TWO THREE	- 15 27	
		BUTTWELDS	PS2-6"ED ISI-2	S, VOL	3	NONE 1 100% NONE	ONE TWO THREE	0 33 33	
	MAIN STEAM C	BUTTWELDS	PS3-18"ED ISI-3	S, VOL	27	2 2 3 100% 100% 100%	ONE TWO THREE	7 15 26	
		BUTTWELDS	PS3-6"ED ISI-3	S, VOL	3	1 NONE NONE 100%	ONE TWO THREE	33 33 33	

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B9.11& B9.12	(CONTINUED)	MAIN STEAM D	BUTTWELDS PS4-18"ED ISI-4	S,VOL	24	2	100%	ONE	8	
						1	100%	TWO	13	
						3	100%	THREE	25	
		FEEDWATER A	BUTTWELDS PS4-6"ED ISI-4	S,VOL	6	1	100%	ONE	17	
						1	NONE	TWO	17	
						1	100%	THREE	33	
		FEEDWATER A	BUTTWELDS FW2B-10"ED ISI-5A	S,VOL	13	2	100%	ONE	15	
						1	NONE	TWO	15	
						1	100%	THREE	23	
		FEEDWATER A	BUTTWELDS FW2B-14"ED ISI-5A	S,VOL	12	2	100%	ONE	-	
						1	NONE	TWO	17	
						1	100%	THREE	25	
		FEEDWATER B	BUTTWELDS FW2B-10"ED ISI-5A	S,VOL	11	2	100%	ONE	-	
						1	NONE	TWO	18	
						1	100%	THREE	27	
		FEEDWATER C	BUTTWELDS FW2A-10"ED ISI-5B	S,VOL	11	1	100%	ONE	9	
						1	NONE	TWO	9	
						1	100%	THREE	18	
		FEEDWATER D	BUTTWELDS FW2A-10"ED ISI-5B	S,VOL	13	2	100%	ONE	15	
						1	NONE	TWO	15	
1	100%					THREE	23			
FEEDWATER D	BUTTWELDS FW2A-14"ED ISI-5B	S,VOL	12	2	100%	ONE	17			
				1	100%	TWO	17			
				1	NONE	THREE	25			

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B9.11 & B9.12	(CONTINUED)	RHR TW30	BUTTWELDS TW30-16"DB ISI-11C	S,VOL	20	2	100%	ONE	10
						2	100%	TWO	20
						1	100%	THREE	25
		RHR TW36	BUTTWELDS TW30-18"DB ISI-11C	S,VOL	2	1	NONE	ONE	0
							100%	TWO	50
							NONE	THREE	50
		RECIRC A	BUTTWELDS REW13A-28" ISI-13A	S,VOL	17	1	100%	ONE	6
						2	100%	TWO	18
						2	100%	THREE	29
		RECIRC B	BUTTWELDS REW13B-28" ISI-13B	S,VOL	16	2	100%	ONE	13
							NONE	TWO	13
						2	100%	THREE	25
		RECIRC BYPASS A	BUTTWELDS REW24 -4" ISI-13AA	S,VOL	12	2	100%	ONE	16
							NONE	TWO	16
						1	100%	THREE	25
		RECIRC BYPASS B	BUTTWELDS REW25 -4" ISI-13BB	S,VOL	13	2	100%	ONE	15
							100%	TWO	31
							NONE	THREE	31
		RECIRC MANIFOLD	BUTTWELDS REW32-22" ISI-13C & ISI-13D	S,VOL	17	2	100%	ONE	12
						2	100%	TWO	18
						1	100%	THREE	29

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B9.11 & B9.12	(CONTINUED)								
	RISER C	BUTTWELDS	REW21-12" ISI-13D	S, VOL	4	NONE NONE NONE	ONE TWO THREE	- - -	
	RISER D	BUTTWELDS	REW20-12" ISI-13D	S, VOL	4	NONE NONE NONE	ONE TWO THREE	- - -	
	RISER E	BUTTWELDS	REW19-12" ISI-13D	S, VOL	4	NONE NONE NONE	ONE TWO THREE	- - -	
	HEAD VENT	BUTTWELD	CLOSURE HD ISI-15	S, VOL	1	1 100%	ONE	100	
	JET PUMP INSTR	BUTTWELDS	N8A & N8B ISI-16	S, VOL	2	NONE NONE 1 100%	ONE TWO THREE	- - 50	
	INSTRUMENT LINES FROM N11A&N11B	BUTTWELDS	1 1/2" DC ISI-18&18A	S, VOL	8	1 NONE 100% 1 100%	ONE TWO THREE	13 13 25	CONDENSING AND CONSTANT HEAD CHAMBERS
	CRD SCRAM HDR 8"	BUTTWELDS	CRD26A-8" CRD26B-8" ISI-24A&B	S, VOL	6	1 100% 1 100% NONE	ONE TWO THREE	17 33 33	

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B9.11& B9.12	(CONTINUED)								
	CRD SCRAM HDR 6"	BUTTWELDS	CRD14A-6" CRD14B-6" ISI-24A&B	S, VOL	17	NONE 2 100% 3 100%	ONE TWO THREE	- 12 29	
	CRD SCRAM HDR 4"	BUTTWELDS	CRD13A-4" CRD13B-4" CRD15A-4" CRD15B-4" ISI-24A&B	S, VOL	28	2 100% 2 100% 3 100%	ONE TWO THREE	7 14 25	
	SCRAM DISCHARGE VOLUME TANK	BUTTWELDS	CRD18-12" ISI-24C	S, VOL	2	NONE NONE 1 100%	ONE TWO THREE	- - 50	
B9.20	<u>NOMINAL PIPE SIZE LESS THAN 4 IN.</u>								
B9.21& B9.22	<u>CIRCUMFERENTIAL AND *LONGITUDINAL WELDS</u>								*THE LESSER OF 12 IN. OR 1 PIPE DIAMETER LENGTH FROM SCHEDULED CIRC WELD INTER-SECTION WILL BE EXAMINED
	RCIC-STEAM	BUTTWELDS	PS17-3"ED ISI-12	S	15	2 100% NONE 2 100%	ONE TWO THREE	13 13 27	
	STANDBY LIQUID CONTROL	BUTTWELDS	CH2-1½"EF ISI-22	S	3	1 NONE 100% NONE	ONE TWO THREE	- 33 33	
	MAIN STEAM CONDENSATE LEAKOFF	BUTTWELDS	PS15-3"ED ISI-23	S	10	2 100% NONE 1 100%	ONE TWO THREE	20 20 30	

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MONTECELLO NUCLEAR GENERATING PLANT  
TEN YEAR INTERVAL - EXAMINATION SUMMARY

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	INSPECTION RUNNING %	REMARKS	
B10.10	EXAMINATION CATEGORY B-K-1; SUPPORT MEMBERS FOR PIPING, PUMPS, AND VALVES  PIPING  INTEGRALLY WELDED ATTACH- MENTS AND B11.10 COMPONENT SUPPORTS	WELDED SUPPORT	PS1-18"ED ISI-1	S	2	1' 100%	ONE	50	INCLUDES THE CORRESPONDING B11.10 (VT-3 & VT-4) EXAMINA- TIONS WHERE APPLICABLE.	
				VT-3	NONE	TWO	50			
				VT-4	1 100%	THREE	100			
		WELDED SUPPORT	PS2-18"ED ISI-2	S	2	NONE 100%	ONE	-		ONE
				VT-3	NONE	TWO	100			
				VT-4	NONE	THREE	100			
		WELDED SUPPORT	PS3-18"ED ISI-3	S	2	NONE 100%	ONE	-		ONE
				VT-3	NONE	TWO	50			
				VT-4	1 100%	THREE	100			
		WELDED SUPPORT	PS4-18"ED ISI-4	S	2	NONE 100%	ONE	-		ONE
				VT-3	NONE	TWO	50			
				VT-4	1 100%	THREE	100			
WELDED SUPPORTS	FW2B-10"ED ISI-5A	S	3	NONE 100%	ONE	-	ONE			
		VT-3	NONE	TWO	67					
		VT-4	1 100%	THREE	100					
WELDED SUPPORTS	FW2B-14"ED ISI-5A	S	1	NONE 100%	ONE	100	ONE			
		VT-3	NONE	TWO	100					
		VT-4	NONE	THREE	100					



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TEN YEAR INTERVAL - EXAMINATION SUMMARY

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS
B11.10	(CONTINUED)								
	HEAD VENT LINE	SUPPORTS	V15-2"ED ISI-15	VT-3 VT-4	2	1 NONE 100%	ONE TWO THREE	50 50 100	
	BOTTOM HEAD DRAIN	SUPPORTS	REW31-2" ISI-21	VT-3 VT-4	4	2 2 100% 100% NONE	ONE TWO THREE	50 100 100	
	STANDBY LIQUID CONTROL	SUPPORTS	CH2-1 1/2" ISI-22	VT-3 VT-4	2	1 1 100% 100% NONE	ONE TWO THREE	50 100 100	
	CRD SCRAM HEADER A	SUPPORTS	CRD26A-8"DB CRD13A-4"DB CRD14A-6"DB CRD15A-4"DB ISI-24A	VT-3 VT-4	14	4 5 5 100% 100% 100%	ONE TWO THREE	29 64 100	
	CRD SCRAM HEADER B	SUPPORTS	CRD26B-8"DB CRD13B-4"DB CRD14B-6"DB CRD15B-4"DB ISI-24B	VT-3 VT-4	15	5 5 5 100% 100% 100%	ONE TWO THREE	33 67 100	
	CRD SCRAM HEADER DISCHARGES A & B	SUPPORTS	CRD16A-2"DB CRD16B-2"DB ISI-24 C&D	VT-3 VT-4	18	4 7 7 100% 100% 100%	ONE TWO THREE	33 67 100	
	CRD SCRAM HEADER DRAIN	SUPPORTS	CRD18-2"DB ISI-24C	VT-3 VT-4	1	1 NONE NONE 100%	ONE TWO THREE	100 100 100	

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TEN YEAR INTERVAL - EXAMINATION SUMMARY

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS
	<p>EXAMINATION CATEGORY B-N-1, INTERIOR OF REACTOR VESSEL; B-N-2, INTEGRALLY WELDED CORE SUPPORT STRUCTURES AND INTERIOR ATTACHMENTS TO REACTOR VESSELS; B-N-3, REMOVABLE CORE SUPPORT STRUCTURES</p> <p>REACTOR VESSEL</p>								
B-13.10	VESSEL INTERIOR		SPACE ABOVE AND BELOW THE REACTOR CORE THAT IS MADE ACCESSIBLE FOR EXAMINATION BY THE REMOVAL OF COMPONENTS DURING NORMAL REFUELING OUTAGES.	VT-3	-	VISUALLY ACCESSIBLE AREAS	ONE TWO THREE	100 100 100	
			FEEDWATER SPARGERS	VT-3	-	100% OF THE ACCESSIBLE FEEDWATER SPARGER SYSTEM AND NOZZLE INNER RADIUS AREA	*	100	*100% ACCESSIBLE OF ALL 4 NOZZLES AT INTERVALS NOT TO EXCEED EVERY OTHER REFUELING OUTAGE (NRC LETTER TO MR. MAYER, DATED 8-27-81)

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS
B13.10	CONT'D								
		CORE SPRAY SPARGERS		VT-3	-	100% OF THE ACCESSIBLE CORE SPRAY SPARGER SYSTEM	*	100	*100% ACCESSIBLE OF ALL CORE SPRAY SPARGER AND PIPING AT EACH REFUELING OUTAGE (IE BULLETIN 80-13)
B13.20	<u>INTERIOR ATTACHMENTS &amp; CORE SUPPORT STRUCTURES</u>	ALL ATTACHMENTS AND CORE SUPPORT STRUCTURES		VT-1	-	VISUALLY ACCESSIBLE WELDS AND SURFACES	ONE TWO THREE	100 100 100	
	<u>REACTOR VESSEL (PWR)</u>								
B13.30	<u>CORE SUPPORT STRUCTURE</u>	N/A		-	-	-	-	-	

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS
B14.10	<p>EXAMINATION CATEGORY B-0, PRESSURE RETAINING WELDS IN CONTROL ROD HOUSINGS</p> <p>REACTOR VESSEL WELDS IN CRD HOUSING</p>	HOUSING WELDS	FIGURE 1	S, VOL	*121	<p>1 100%</p> <p>1 100%</p> <p>1 100%</p>	<p>ONE</p> <p>TWO</p> <p>THREE</p>	<p>4</p> <p>8</p> <p>13</p>	*24 PERIPHERAL HOUSINGS INCLUDES UPPER AND LOWER WELDS

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS
	EXAMINATION CATEGORY C-B, PRESSURE RETAINING NOZZLE WELDS IN VESSELS								
C2.10	NOZZLES IN VESSELS 1/2 in. OR LESS IN NOMINAL THICKNESS	NONE	--	--	--	--	--	--	
C2.20	NOZZLES IN VESSELS OVER 1/2 in. IN NOMINAL THICK- NESS								
	RHR HEAT EXCHANGERS E-200A	N3 & N4	WELDS 7&8 ISI-50	*S,VOL	2	1 1 100% 100%	ONE TWO	25 50	*SUPPLEMENTED BY SURFACE EXAMINA- TIONS
	E-200B	N3 & N4	WELDS 7&8	*S,VOL	2	1 1 100% 100%	TWO THREE	75 100	

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS	
	<u>EXAMINATION CATEGORY C-C AND C-E, SUPPORT MEMBERS</u>									
C3.10	<u>INTEGRALLY WELDED SUPPORT ATTACHMENTS</u>									
	RHR HEAT EXCHANGERS				(6)	(3)	(100%)	(100)	MULTIPLE VESSELS	
	E-200A	WELDED	E-200A	S	3	1	100%	ONE		33
		SUPPORTS	ISI-50			1	100%	TWO		67
	E-200B		E-200B	S	3	1	100%	THREE		100
C3.20	<u>COMPONENT SUPPORTS</u>									
	RHR HEAT EXCHANGERS									
	E-200A	SUPPORTS	E-200A	VT-3	3	2	100%	ONE		33
			ISI-50			1	100%	TWO		50
	E-200B	SUPPORTS	E-200B	VT-3	3	1	100%	TWO		67
						2	100%	THREE	100	
C3.30	<u>SUPPORTS-MECHANICAL AND HYDRAULIC</u>	NONE	--	--	--	--	--	--		

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS	
C3.40	CONTINUED RHR DISCHARGE B	WELDED SUPPORT	TW19-10"GE ISI-43	S	1	NONE	ONE	-		
				VT-3		100%	TWO	100		
				VT-4		NONE	THREE	100		
		WELDED SUPPORT	TW20-16"GE ISI-43	S	1	NONE	ONE	-		
				VT-3		NONE	TWO	-		
				VT-4		100%	THREE	100		
CONTAINMENT SPRAY A & B	WELDED SUPPORTS	TW32-12"GE TW23-10"GE TW33-12"GE ISI-44	4	1	100%	ONE	25			
				.1	100%	TWO	50			
				2	100%	THREE	100			
C3.50	*COMPONENT SUPPORTS	SUPPORTS	PS1-18"ED ISI-26	*	6	100%	ONE	33	*INCLUDES THE CORRESPONDING C3.60 (VT-4) EXAMINATIONS WHERE APPLICABLE.  RELIEF NO. 23	
				VT-3		100%	TWO	67		
				VT-4		100%	THREE	100		
				VT-3		100%	ONE	33		
				VT-4		100%	TWO	67		
				VT-4		100%	THREE	100		
		SUPPORTS	PS2-18"ED ISI-27	6	2	100%	ONE	33		
					2	100%	TWO	67		
					2	100%	THREE	100		
		SUPPORTS	PS3-18"ED ISI-28	6	2	100%	ONE	33		
					2	100%	TWO	67		
					2	100%	THREE	100		
SUPPORTS	PS4-18"ED ISI-29	6	2	100%	ONE	33				
			2	100%	TWO	67				
			2	100%	THREE	100				



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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS		
C3.50	CONTINUED	SUPPORTS	PS11-6"ED	VT-3	3	2	100%	ONE	29		
			PS12-6"ED	VT-4	1	2	100%	TWO	57		
			PS13-6"ED		2	3	100%	THREE	100		
			PS14-6"ED		1						
			ISI-30		7						
		SUPPORTS	PS7-10"ED	VT-3	9	3	100%	ONE	27		
			PS7-8"ED	VT-4	2	3	100%	TWO	55		
			ISI-30		11	5	100%	THREE	100		
		SUPPORTS	MAIN STEAM EQUALIZER HDR	PS30-18"EDB	VT-3	3	NONE	ONE	-		
				ISI-30A	VT-4		2	100%	TWO	67	
						1	100%	THREE	100		
		SUPPORTS	HPCI WATER DISCHARGE	TW3-12"ED	VT-3	17	6	100%	ONE	35	
				ISI-31	VT-4		6	100%	TWO	71	
						5	100%	THREE	100		
		SUPPORTS	HPCI WATER SUCTION	TW1-14"HE	VT-3	4	NONE	ONE	-		
				ISI-31A	VT-4		2	100%	TWO	50	
						2	100%	THREE	100		
		SUPPORTS	HPCI STEAM	PS18-8"ED	VT-3	13	3	100%	ONE	23	
				ISI-32	VT-4		5	100%	TWO	62	
						5	100%	THREE	100		
		SUPPORTS	HPCI STEAM DISCHARGE	RS2-16"HE	VT-3	6	2	100%	ONE	33	
ISI-33	VT-4				4	100%	TWO	100			
					NONE	THREE	100				

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	INSPECTION-RUNNING %	REMARKS		
C3.50	CONTINUED RHR SERVICE WATER	SUPPORTS	SW9-8"GE	VT-3	16	100%	ONE	31			
			ISI-39	VT-4		100%	TWO	62			
		RHR SUCTION A	SUPPORTS	REW10-18"HE	VT-3	4	100%	ONE	50		
				ISI-40	VT-4		100%	TWO	100		
			SUPPORTS	TW14B-20"HE	VT-3		NONE	100%	ONE	67	
				ISI-40	VT-4		NONE	100%	TWO	100	
	RHR DISCHARGE A	SUPPORTS	TW28-20"HE	VT-3	3	NONE	ONE	-			
			ISI-40	VT-4		NONE	TWO	-			
		SUPPORTS	TW29-10"GE	VT-3	4	100%	ONE	25			
			ISI-41	VT-4		100%	TWO	50			
			TW30-14"GE	VT-3		100%	ONE	38			
			ISI-41	VT-4		100%	TWO	75			
RHR SUCTION B	SUPPORTS	TW30-16"GE	VT-3	1	NONE	ONE	-				
		ISI-41	VT-4		100%	TWO	100				
	SUPPORTS	TW30-16"DB	VT-3	1	NONE	ONE	100				
		REW10-18"HE	VT-3		100%	TWO	100				
		ISI-42	VT-4		NONE	THREE	100				
			VT-3		NONE	ONE	-				
	VT-4	NONE	TWO	-							
	VT-3	NONE	THREE	100							



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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT & EXTENT	INSPECTION PERIOD	RUNNING %	REMARKS
C3.60	<u>*SUPPORTS - MECHANICAL AND HYDRAULIC</u>	*	-	-	-	-	-	-	*INCLUDED UNDER C3.40 & C3.50
	<u>PUMPS</u>								
C3.70	<u>*INTEGRALLY WELDED SUPPORT ATTACHMENTS</u>								*INCLUDES THE CORRESPONDING C3.80 (VT-3) EXAMINATIONS
	RHR PUMPS	WELDED SUPPORTS	P-202A P-202B P-202C P-202D ISI-48	S VT-3	4	1 100% 1 100% 1 100% 1 100%	TWO THREE TWO ONE	50 100 75 25	
	CORE SPRAY PUMPS	WELDED SUPPORTS	14-1A 14-1B ISI-49	S VT-3	2	1 100% 1 100%	THREE ONE	100 50	
C3.80	<u>COMPONENT SUPPORTS</u>								
	HPCI TURBINE & PUMPS	SUPPORTS	TURBINE DVS PUMP DVMX PUMP ISI-45 & ISI-46	VT-3	11	3 100% 3 100% 5 100%	ONE TWO THREE	27 55 100	
	RCIC TURBINE & PUMP	SUPPORTS	TURBINE PUMP ISI-47	VT-3	4	1 100% 1 100% 2 100%	ONE TWO THREE	25 50 100	

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT		INSPECTION PERIOD	%	REMARKS
						40 YR	10 YR			
C5.11 & C5.12	(CONTINUED)								(40YR) 10YR	REQUIRED % RUNNING %
	TW14B-20"HE	CIRC WELDS	ISI-40	S	(10) 5	(5) 3	(1) 1	ONE	(100) 20	MULTIPLE STREAMS
	TW14A-20"HE	20" X .375"	ISI-42	S	5	2	-	-	-	
	TW16-14"HE	CIRC WELDS	ISI-40	S	(28) 7	(7) 2	(2) 1	TWO	(100) 14	MULTIPLE STREAMS
	TW18-14"HE	14" X .375"		S	7	1	-	-	-	
	TW15-14"HE		ISI-42	S	7	2	-	-	-	
	TW17-18"HE			S	7	2	1	THREE	29	
	RHR DISCHARGE A&B				(37)	(19)	(5)		(100)	MULTIPLE STREAMS
	TW29-10"GE	CIRC WELDS	ISI-41	S	18	9	2	TWO	11	
	TW19-10"GE	10" X .365"	ISI-43	S	19	10	1	TWO	16	
							2	THREE	26	
	TW29-14"GE	CIRC WELDS	ISI-41	S	(19) 7	(10) 4	(3) 1	ONE	(100) 10	MULTIPLE STREAMS
	TW19-14"GE	14" X .375"	ISI-43	S	12	6	2	TWO	30	
	TW30-14"GE	CIRC WELDS	ISI-41	S	(67) 38	(34) 19	(9) 2	ONE	(100) 6	MULTIPLE STREAMS
	TW20-14"GE	14" X .375"	ISI-43	S	29	15	2	TWO	15	
							2	TWO	24	
							2	THREE	26	
	TW30-16"GE	CIRC WELDS	ISI-41	S	(8) 4	(4) 2	(1) 1	TWO	(100) 50	MULTIPLE STREAMS
	TW20-16"GE	16" X .375"	ISI-43	S	4	2	1	ONE	25	
	TW22-14"GE	CIRC WELDS	ISI-43	S	5	(5) 5	(1) 1	ONE	(100) 20	SINGLE STREAM
		14" X .375"								

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ITEM NO.	COMPONENT OR SYSTEM	IDENTIFICATION	DESCRIPTION	NDE METHOD	TOTAL ITEMS	EXAMINATION AMOUNT		INSPECTION PERIOD	%	REMARKS
						40 YR	10 YR			
CS.21& CS.22	(CONTINUED)								(40YR) 10YR	REQUIRED % RUNNING %
	SUPPLY TO STEAM SEAL SYSTEM PS7-8"ED	CIRC WELDS 8" X .593"	ISI-30	S,VOL	7	(7) 7	(2) 2	ONE	(100) 29	SINGLE STREAM
	PS7-10"ED	CIRC WELDS 10" X .593"	ISI-30	S,VOL	18	(18) 18	(5) 3 2	TWO THREE	(100) 17 28	SINGLE STREAM
	MAIN STEAM EQUALIZER HDR PS30-18"EDB	CIRC WELDS 18" X .937"	ISI-30A	S,VOL	21	(21) 21	(5) 2 1 2	ONE TWO THREE	(100) 10 14 24	SINGLE STREAM
	10" DRIPLEG	CIRC WELDS 10" X .594"	ISI-30A	S,VOL	2	2	-	-	-	SINGLE STREAM
	FEEDWATER A&B FW2A-14"ED FW2B-14"ED	CIRC WELDS 14" X .937"	ISI-37	S,VOL	(8) 4 4	(4) 2 2	(1) 1 -	ONE -	(100) 25 -	MULTIPLE STREAMS
	RHR DISCHARGE A&B TW30-16"DB TW20-16"DB	CIRC WELDS 16" X .843"	ISI-41 ISI-43	S,VOL S,VOL	(6) 3 3	(3) 1 2	(1) - 1	- TWO	(100) - 33	MULTIPLE STREAMS
	('75 CATEGORY C-G) HPCI WATER DISCHARGE TW3-12" ED	CIRC WELDS 12" X .687" 12" X .843" 8" X .594"	ISI-31	S,VOL S,VOL S,VOL	(47) 7 38 2	(24) 3 20 1	(6) 1 2 3 1	ONE ONE TWO THREE	(51) 4 12 25 29	SINGLE STREAM

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SECTION 2 PRESSURE TESTING PROGRAM

ASME Section XI Pressure Testing Program

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

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

APPLICABLE ASME CODE CLASS	TEST TYPE	TEST FREQUENCY	REQUEST FOR RELIEF
1 (Quality Group A)	Leakage	Refueling	30, 46
	Hydrostatic	10 years	30, 46, 48
2 (Quality Group B)	Functional	3 1/3 years	30, 31, 46
	Hydrostatic	10 years	30, 31, 46
3 (Quality Group C)	Inservice	3 1/3 years	30, 46
	Functional	3 1/3 years	30, 46
	Hydrostatic	10 years	30, 46, 49

Except as noted in the Requests for Relief, pressure tests will conform to IWA-5000, IWB-5000, IWC-5000, and IWD-5000.

ASME Code Class boundaries are shown on the figures in Section 6. These figures do not include small instrument, leak test, vent, and drain lines.



System	Valve Number	FSAR Valve No.	Description	Applicable ASME Code Class	Valve Category	Test Frequency	Test	Request For Relief
FW	FW 91-1	27B	FW Inlet Check Valve	2	C	CSIQ	Exercise	
FW	FW 91-2	27A	FW Inlet Check Valve	2	C	CSIQ	Exercise	
FW	FW 94-1	96B	Outboard Isolation	1	A, C	RR	RR	8, 50
FW	FW 94-2	96A	Outboard Isolation	1	A, C	RR	RR	8, 50
FW	FW 97-1	28B	Inboard Isolation	1	A, C	RR	RR	8, 50
FW	FW 97-2	28A	Inboard Isolation	1	A, C	RR	RR	8, 50
Recirc	CV-2790	39	Rx Water Sample Isolation	2	A	Q	Full Stroke-Time	10, 28, 50
Recirc	CV-2791	40	Rx Water Sample Isolation	2	A	Q	Full Stroke-Time	10, 28, 50
Recirc	MO-2-43A	43A	Recirc Suction	1	B	CSIQ	Full Stroke-Time	28
Recirc	MO-2-43B	43B	Recirc Suction	1	B	CSIQ	Full Stroke-Time	28
Recirc	MO-2-53A	53A	Recirc Discharge	1	B	CSIQ	Full Stroke-Time	28
Recirc	MO-2-53B	53B	Recirc Discharge	1	B	CSIQ	Full Stroke-Time	28
Recirc	MO-2-54A	54A	Recirc Disch. Bypass	1	B	Q	Full Stroke-Time	28
Recirc	MO-2-54B	54B	Recirc Disch. Bypass	1	B	Q	Full Stroke-Time	28
Recirc	MO-2-65A	65B	Recirc Loop Crosstie	1	B	CSIQ	Full Stroke-Time	28
Recirc	MO-2-65B	65A	Recirc Loop Crosstie	1	B	CSIQ	Full Stroke-Time	28

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System	Valve Number	FSAR Valve No.	Description	Applicable ASME Code Class	Valve Category	Test Frequency	Test	Request For Relief
RHR	RHR-21	29	Rx Head Clg Check	1	C	CSIQ	Exercise	
RHR	RHR-8-1	19A	RHR Min Flow Check	2	C	RR	RR	7
RHR	MO-1988	MO-15A	Shutdown Clg Suction	2	B	CSIQ	Full Stroke-Time	28
RHR	MO-1989	MO-15B	Shutdown Clg Suction	2	B	CSIQ	Full Stroke-Time	28
RHR	MO-2006	MO-39A	Disch to Torus	2	A	Q	Full Stroke-Time	28, 50
RHR	MO-2007	MO-39B	Disch to Torus	2	A	Q	Full Stroke-Time	28, 50
RHR	MO-2008	MO-34A	Torus Clg Inlet	2	A	Q	Full Stroke-Time	28, 50
RHR	MO-2009	MO-34B	Torus Clg Inlet	2	A	Q	Full Stroke-Time	28, 50
RHR	MO-2010	MO-38A	Torus Spray	2	A	Q	Full Stroke-Time	28, 50
RHR	MO-2011	MO-38B	Torus Spray	2	A	Q	Full Stroke-Time	28, 50
RHR	MO-2012	MO-27A	LPCI Injection	2	B	Q	Full Stroke-Time	28
RHR	MO-2013	MO-27B	LPCI Injection	2	B	Q	Full Stroke-Time	28
RHR	MO-2014	MO-25A	LPCI Injection	1	A	Q	Full Stroke-Time	28
RHR	MO-2015	MO-25B	LPCI Injection	1	A	Q	Full Stroke-Time	28

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System	Valve Number	FSAR Valve No.	Description	Applicable ASME Code Class	Valve Category	Test Frequency	Test	Request For Relief
HPCI	MO-2068	MO-19	Pump Discharge Isol	2	B	Q	Full Stroke-Time	28
HPCI	AO-23-18	AO-18	Clg Wtr Disch Check	2	C	Q	Exercise	
HPCI	MO-2071	MO-21	Test return to CST	2	B	Q	Full Stroke-Time	28
HPCI	MO-2067	MO-20	Coolant Pump Disch.	2	B	Q	Full Stroke-Time	28
HPCI	CV-2065	41	Min Flow Bypass	2	B	Q	Full Stroke-Time	28
HPCI	HPCI-42	62	Min Flow Bypass Check	2	C	RR	RR	7
HPCI	RV-2064	34	Relief Valve	2	C	IW-3510	Setpoint	
HPCI	HPCI-32	32	CST Suction Check	2	C	Q	Exercise	
HPCI	MO-2063	MO-17	CST Suction	2	B	Q	Full Stroke-Time	28
HPCI	MO-2062	MO-57	Torus Suction	2	B	Q	Full Stroke-Time	28
HPCI	HPCI-31	61	Torus Suction Check	2	C	CSIQ	Exercise	
HPCI	MO-2061	MO-58	Torus Suction	2	B	Q	Full Stroke-Time	28
HPCI	MO-2034	MO-15	Steam Supply Isolation	1	A	Q	Full Stroke-Time	28, 50
HPCI	MO-2035	MO-16	Steam Outboard Isolation	1	A	Q	Full Stroke-Time	28, 50
HPCI	MO-2036	MO-14	Turbine Steam Supply	2	B	Q	Full Stroke-Time	28
HPCI	HO-7	HO	Turbine Stop Valve	2	B	Q	Full Stroke	10
HPCI	HO-8	HO	Turbine Control Valve	2	B	Q	Full Stroke-Time	28
HPCI	HPCI-60	None	Turbine Exhaust Vacuum Breaker	2	C	CSIQ	Exercise	

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System	Valve Number	FSAR Valve No.	Description	Applicable ASME Code Class	Valve Category	Test Frequency	Test	Request For Relief
HPCI	PCV-3493	PCV-50	Cooling Water Supply Cont.	2	B	NR	Exempt per IWV-1200a	
HPCI	HPCI-20	131	Cooling Water Return Check	2	C	Q	Exercise	
HPCI	HPCI-14	56	Ex. Line Drain Pot Check	2	A, C	CSIQ	Exercise	50
HPCI	HPCI-15	45	Ex. Line Drain Pot Check	2	C	RR	RR	7
HPCI	HPCI-9	65	Turbine Ex. Line Check	2	A, C	Q	Exercise	50
HPCI	HPCI-10	12	Ex. Line Stop Check	2	C	Q	Exercise	
HPCI	HPCI-65	None	Vac. Bkr Check	2	C	CSIQ	Exercise	
HPCI	HPCI-71	None	Vac. Bkr Check	2	C	CSIQ	Exercise	
HPCI	PSD-2038	None	Ex. Line Rupture Disc	2	D	NR		
RCIC	MO-2096	MO-2096	Cooling Water to Cond.	2	B	Q	Full Stroke-Time	28
RCIC	RV-2097	RV-2097	Relief Valve	3	C	IWV-3510	Setpoint	
RCIC	RCIC-14	None	Condenser Cond Pump Disch	2	C	Q	Exercise	
RCIC	RCIC-17	None	Vac Pump Disch Check	2	C	RR	RR	7
RCIC	RCIC-9	None	Turbine Exhaust Check	2	A,C	Q	Exercise	50
RCIC	RCIC-10	None	Steam Exh Stop Check	2	C	Q	Exercise	
RCIC	RCIC-57	None	Vac Brkr Check	2	C	CSIQ	Exercise	
RCIC	RCIC-59	None	Vac Brkr Check	2	C	CSIQ	Exercise	
RCIC	PSD-2089	PSD-2089	Rupture Disc	2	D	NR		

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System	Valve Number	FSAR Valve No.	Description	Applicable ASME Code Class	Valve Category	Test Frequency	Test	Request For Relief
RCIC	MD-2075	MD-2075	Steam Supply Isolation	1	A	Q	Full Stroke-Time	28, 50
RCIC	MD-2076	MD-2076	Steam Supply Isolation	1	A	Q	Full Stroke-Time	28, 50
RCIC	MD-2078	MD-2078	Steam Supply to Turbine	2	B	Q	Full Stroke-Time	28
RCIC	RCIC-7	None	Throttle Trip Valve	2	B	Q	Full Stroke	10
RCIC	HD	None	RCIC Governing	2	B	NR	Exempt per IWV-1200a	
RCIC	PCV-2092	PCV-2092	Condenser Press Cont	2	B	NR	Exempt per IWV-1200a	
RCIC	RCIC-16	None	Vac Pump Disch Check	2	A, C	CSIQ	Exercise	50
RCIC	MD-2100	MD-2100	Inboard Torus Suction	2	B	Q	Full Stroke-Time	28
RCIC	RCIC-31	None	Check Valve to Torus	2	C	CSIQ	Exercise	
RCIC	MD-2101	MD-2101	Outboard Torus Suction	2	B	Q	Full Stroke-Time	28
RCIC	RCIC-41	None	Check Valve to CST	2	C	Q	Exercise	
RCIC	MD-2102	MD-2102	CST Suction	2	B	Q	Full Stroke-Time	28
RCIC	RV-2103	RV-2103	RCIC Suction Line Relief Valve	2	C	IWV-351	Setpoint	
RCIC	CV-2104	CV-2104	Min Flow Bypass	2	B	Q	Full Stroke-Time	28
RCIC	RCIC-37	None	Min Flow Bypass Check	2	C	RR	RR	7
RCIC	MD-2106	MD-2106	Pump Discharge	2	B	Q	Full Stroke-Time	28
RCIC	MD-2107	MD-2107	Pump Discharge	2	B	Q	Full Stroke-Time	28
RCIC	AO-13-22	AO-13-22	Pump Disch Check	2	C	CSIQ	Exercise	

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System	Valve Number	FSAR Valve No.	Description	Applicable ASME Code Class	Valve Category	Test Frequency	Test	Request For Relief
CRD	CV-3-32A	CV-32A	Scram Disch Volume Vent	1	B	Q	Full Stroke-Time	28
CRD	CV-3-32B	CV-32B	Scram Disch Volume Vent	1	B	Q	Full Stroke-Time	28
CRD	CV-3-33	CV-33	Scram Disch Volume Drain	1	B	Q	Full Stroke-Time	28
CRD	RV-3-34	34	Scram Disch Volume Relief Valve	2	C	IWV-3510	Setpoint	
CRD	CRD-114	114	Scram Riser Check	2	C	RR	RR	9
CRD	CRD-115	115	Accumulator Charging Water Check	2	C	CSIQ	Exercise	
CRD	CRD-138	138	Cooling Water Check	2	C	RR	RR	52
CRD	CV-126	CV-126	Inlet Scram Valve	1	B	RR	RR	9
CRD	CV-127	CV-127	Outlet Scram Valve	2	B	RR	RR	9
RHR SW	CV-1728	CV-1728	RHR SW Control Valve3	3	B	Q	Full Stroke-Time	28
RHR SW	CV-1729	CV-1729	RHR SW Control Valve	3	B	Q	Full Stroke-Time	28
RHR SW	RHR-SW 1-1	RHR-SW 1-1	RHR SW Pump Disch Check	3	C	Q	Exercise	
RHR SW	RHR-SW 1-2	RHR-SW 1-2	RHR SW Pump Disch Check	3	C	Q	Exercise	

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System	Valve Number	FSAR Valve No.	Description	Applicable ASME Code Class	Valve Category	Test Frequency	Test	Request For Relief
Primary Containm	AO-2896	None	Torus Vent Isolation	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	CV-2384	None	Torus Vent Isolation	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	CV-2385	None	Drywell Vent Isolation	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	CV-3267	None	Torus N <sub>2</sub> Makeup Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	CV-3268	None	Drywell N <sub>2</sub> Makeup Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	CV-3269	None	Cont N <sub>2</sub> Makeup Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-3307	None	Drywell O <sub>2</sub> Analy Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-3308	None	Drywell O <sub>2</sub> Analy Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	CV-3311	None	Drywell O <sub>2</sub> Analy Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	CV-3312	None	Drywell O <sub>2</sub> Analy Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	CV-3313	None	Drywell O <sub>2</sub> Analy Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	CV-3314	None	Drywell O <sub>2</sub> Analy Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	CV-7436	None	N <sub>2</sub> Pumpback Isolation	2	A	IWV-3416	Exercise	50
Primary Containm	CV-7437	None	N <sub>2</sub> Pumpback Isolation	2	A	IWV-3416	Exercise	50
Primary Containm	CV-7440	None	Torus to Drywell N <sub>2</sub> Iso Sec Cont to	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	DWV-8-1	None	Torus Vac Bkr	2	A, C	Q	Exercise	50
Primary Containm	DWV-8-2	None	Sec Cont to Torus Vac Bkr	2	A, C	Q	Exercise	50

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System	Valve Number	FSAR Valve No.	Description	Applicable ASME Code Class	Valve Category	Test Frequency	Test	Request For Relief
Primary Containm	SV-4001A	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50
primary Containm	SV-4001B	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-4002A	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-4002B	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-4003A	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-4003B	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-4004A	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-4004B	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-4005A	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-4005B	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-4020A	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50
Primary Containm	SV-4020B	None	CAM System Iso	2	A	Q	Full Stroke-Time	28, 50

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System	Valve Number	FSAR Valve No.	Description	Applicable ASME Code Class	Valve Category	Test Frequency	Test	Request For Relief
RX INST.	X-52B	None	Excess Flow Check Valve	1	A, C	RR	RR	39
RX INST.	X-52C	None	Excess Flow Check Valve	1	A, C	RR	RR	39
RX INST.	X-52D	None	Excess Flow Check Valve	1	A, C	RR	RR	39
RX INST.	X-52E	None	Excess Flow Check Valve	1	A, C	RR	RR	39
RX INST.	X-52F	None	Excess Flow Check Valve	1	A, C	RR	RR	39
RX INST.	X-28F	None	Excess Flow Check Valve	2	A, C	RR	RR	40
Cond Serv System	DM-58	None	Drywell Demin Wtr Iso	2	A	IWV-3416	Exercise	50
RBCCW	MO-1426	MO-1426	Drywell RBCCW Isolation	2	A	CSIQ	Full Stroke-Time	28, 50
RBCCW	RBCC-15	None	Drywell RBCCW Isolation	2	A, C	RR	RR	6, 50
RWCU	MO-2397	MO-2397	Pump Suction Isolation	1	A	Q	Full Stroke-Time	28, 50
RWCU	MO-2398	MO-2398	Pump Suction Isolation	1	A	Q	Full Stroke-Time	28, 50
Liquid Radwaste	AO-2541A	None	Drywell Floor Drn Smp Iso	2	A	Q	Full Stroke-Time	28, 50
Liquid Radwaste	AO-2541B	None	Drywell Floor Drn Smp Iso	2	A	Q	Full Stroke-Time	28, 50
Liquid Radwaste	AO-2561A	None	Drywell Equip Sump Iso	2	A	Q	Full Stroke-Time	28, 50
Liquid Radwaste	AO-2561B	None	Drywell Equip Sump Iso	2	A	Q	Full Stroke-Time	28, 50
Fuel Pool Cl <sub>g</sub> & Cl <sub>p</sub>	PC-20-1	None	Fuel Storage Pool Check	3	C	RR	RR	7
Fuel Pool Cl <sub>g</sub> & Cl <sub>p</sub>	PC-20-2	None	Fuel Storage Pool Check	3	C	RR	RR	7
Comp Air	CV-1478	CV-1478	Drywell Comp Air Iso	2	A	CSIQ	Full Stroke-Time	28, 50
Comp Air	CV-7956	None	Torus Inst Air Iso	2	A	Q	Full Stroke-Time	28, 50
Comp Air	AS-39	None	Service Air Iso	2	A	IWV-3416	Exercise	50

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SECTION 4 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
11	32
12	33
14	34
17	35
19	36
20	37
21	38
22	43
25	

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:

7	24
9	41
15	42
16	44
18	45
19	46
23	47
	48
	49
	50
	51
	52

7. REQUEST FOR RELIEF

Component	Function	Applicable ASME Code Class	Valve Category
SW-101	Prevent flow of emergency service water into the normal service water system when the emergency service water system is operating.	3	C
SW-102		3	C
SW-103		3	C
SW-104		3	C
ESW-4-1	Prevent reversal of flow into redundant emergency service water line.	3	C
ESW-4-2		3	C
RHR 8-1	Prevent reversal of flow into RHR Pump Discharge Line.	2	C
RHR 8-2		2	C
HPCI-42	Prevent reversal of flow from Torus into HPCI System.	2	C
HPCI-15		2	C
RCIC-17	Prevent Reversal of Flow from the Torus Into the RCIC System.	2	C
RCIC-37		2	C
SW-21-1	Prevent Reversal of Normal Cooling Flow Into the Service Water System.	3	C
SW-21-2		3	C
SW-16	Prevent Reversal of Flow From Emergency Service Water System Into Service Water System.	3	C
SW-18		3	C
PC-20-1	Prevent siphoning of Water From Fuel Storage Pool Into Fuel Pool Cleanup System.	3	C
PC-20-2		3	C

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.

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7. REQUEST FOR RELIEF (Cont'd.)

Alternate Testing

The systems in which these valves are located will be functionally tested on a periodic basis to demonstrate proper operation.

Schedule For Implementation

N A

9. REQUEST FOR RELIEF

Component	Function	Applicable ASME Code Class	Valve Category
CRD-114	Prevent scram discharge flow from flowing back into the CRD during a scram.	2	C
CV-126	Provide scram accumulator pressure to the bottom of the control rod drive piston during a scram.	1	B
CV-127	Exhaust scram discharge water from the top of the control rod drive piston during a scram.	2	B

Code Requirement

These valves will not be tested as required by IWV-3410 and IWV-3520.

Basis

The above listed valves are located on each of the 121 hydraulic control units. There is no practical method of testing these valves in accordance with Section XI requirements. There is no instrumentation installed to verify proper seating of the check valves and the control valves operate too rapidly to measure stroke time. Technical Specifications require all control rods to be scram tested once per operating cycle. These valves are all exercised one full cycle during a scram. Proper operation of these valves and the safety function of the control rod drive system are verified by the scram testing.

Alternate Testing

See Basis

Schedule For Implementation

February 28, 1978

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16. REQUEST FOR RELIEF

COMPONENT or ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
<u>REACTOR VESSEL</u>				
Circumferential Welds VCBA-2, VCBB-3	I	1.1	B1.11	B - A
Longitudinal Welds VLBA-1, VLBA-2	I	1.1	B1.12	B - A

CODE REQUIREMENT

Perform a volumetric examination of one circumferential and one longitudinal beltline region weld.

BASIS

The examination of the circumferential and longitudinal weld will not be performed. The Monticello RPV was constructed with a 2' - 3 1/2" thick biological shield wall surrounding it, with the exception of the top (8) eight feet. Between this wall and the reactor vessel shell is a space of approximately 1 foot that houses the thermal insulation, mirror insulation. The only access areas to the reactor vessel are:

1. at the top (8) eight feet above the biological shield wall;
2. through opening in the wall at each nozzle location and two inspection ports below the skirt weld, and;
3. from the vessel inside diameter.

The area above the biological shield wall and at the nozzle openings is further obstructed by non-removable insulation. A good portion of the vessel insulation was not designed to be removed and therefore it was installed prior to the installation of the piping, electrical conduits, duct work, etc.

A very thorough review was performed, using drawings, sketches, previous examination reports, to try and locate weld areas that possibly could be inspected. It was concluded that some of the welds are close enough to nozzle openings for performing the examinations. Each of the welds that were examined were sketched to show the examination amount, extent and location.

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16. REQUEST FOR RELIEF (continued)

The examination areas and amounts shown in Table 1.1 were scheduled from the drawings, sketches and examination report reviews. As additional areas of welds, other than beltline region, are examined the specific amount and extent given in Table 1.1 will be changed to reflect the actual measurements.

ALTERNATIVE

Due to the inaccessibility of the circumferential and longitudinal beltline region welds (VCBA-2, VCB3-3, VLBA-1 and VLBA-2), all of the accessible areas on the remaining circumferential and longitudinal welds will be examined.

SCHEDULED FOR IMPLEMENTATION

June 30, 1981

51. REQUEST FOR RELIEF

COMPONENT or ITEM	CODE CLASS	PROGRAM TABLE	CODE ITEM	EXAM CATEGORY
<u>REACTOR VESSEL</u> Stabilizer Brackets	I	8.1	B8.10	B - H

CODE REQUIREMENT

Perform a volumetric or surface examination of 100% of the length of weld.

BASIS

The examination of the stabilizer brackets will not be performed. The area around the stabilizer brackets is obstructed by non-removable insulation, ventilation and electrical duct work between the dry well wall and reactor vessel.

These brackets are actually not part of the vessel supporting system, but are designed to stabilize the reactor vessel against jet force loading (LOCA's) and/or seismic loads. The stabilizer brackets are designed to allow thermal movement without restraint, and therefore there are no loadings at the vessel as the result of operations.

ALTERNATIVE

Due to the inaccessibility and design criteria of the stabilizer brackets, inspection of these brackets will be conducted if the brackets experience design loads.

SCHEDULED FOR IMPLEMENTATION

June 30, 1981

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52. REQUEST FOR RELIEF

Component	Function	Applicable ASME Code Class	Valve Category
CRD-138	Prevent scram accumulator pressure from discharging into CRD cooling water circuit during a scram	2	C

Code Requirement

These valves will not be tested within the frequency requirements of IWV - 3520.

Basis

The above listed valve is located on each of the 121 hydraulic control units. These valves can be tested to verify proper seating only during control rod drive differential pressure testing (CRD D/P). The CRD D/P testing is done only during refueling outages due to the extensive instrumentation required to be set up and due to the number of control rod drives that have to be tested.

Alternate Testing

Testing will be completed during refueling outages only.

Schedule For Implementation

September 4, 1982 (Refueling Outage)

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