

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS		SHIELD BLDG PENETRATION
<p>EL 764'7.5" AZ 285°</p>	44N250	-	A	C	AB	EQUIPMENT HATCH	-	-	-	D	M	LM	-	-	-	C	V	C	-	C	-	N	AB	N	-	
<p>EL 719'3.63" AZ 62°</p>	44N240	-	A	C	AD	PERSONNEL AIR LOCK	IN OUT	- -	- -	D D	M M	LM LM	- -	- -	- -	C C	O O	C C	- -	O C	Y Y	N N	AB AB	N N	MK40	
<p>EL 760'3.63" AZ 255°</p>	44N240	-	A	C	AD	PERSONNEL AIR LOCK	IN OUT	- -	- -	D D	M M	LM LM	- -	- -	- -	C C	O O	C C	- -	O C	Y Y	N N	AB AB	N N	MK40	

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<p>REACTOR CAVITY FUEL TRANSFER TUBE FUEL STORAGE POOL EL 711'3" AZ 261° 50'</p>	47W455-1 72-4333 -PS1 (CB & 1 CONTRACT #75320)	56	W	C	AB D	FUEL TRANSFER TUBE	AB	-	-	BL	M	LM	-	-	-	C	V	C	-	C	N	N	AB	N	MK62	
<p>EL 735 AZ 36° 30'</p>	47W866-1	56	A	C	AB CE	LOWER COMPARTMENT PURGE AIR EXHAUST (30)	CB SB	56 57	A B	BF BF	AO AO	AT AT	RM RM	CV CV	4.0 4.0	V V	O O	C C	C C	C C	Y Y	N N	AC AC	N	F-005	3, 6, 14
<p>EL 739'8" AZ 116°</p>	47W866-1	56	A	C	AB CE	INST RM PURGE AIR EXHAUST (30)	CB SB	58 59	B A	BF BF	AO AO	AT AT	RM RM	CV CV	4.0 4.0	V V	O O	C C	C C	C C	Y Y	N N	AC AC	N	F-005	3, 6, 14

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<p>EL 749'3" AZ 293°</p>	47W866-1	56	A	C	AB CE	UPPER COMPARTMENT PURGE AIR EXHAUST (30)	CB SB	50 51	B A	BF BF	AO AO	AT AT	RM RM	CV CV	4.0 4.0	V V	O O	C C	C C	C C	Y Y	N N	AC AC	N	F-005	3, 6, 14
<p>EL 751'4" AZ 249°30'</p>	47W866-1	56	A	C	AB CE	UPPER COMPARTMENT PURGE AIR EXHAUST (30)	CB SB	52 53	A B	BF BF	AO AO	AT AT	RM RM	CV CV	4.0 4.0	V V	O O	C C	C C	C C	Y Y	N N	AC AC	N	F-005	3, 6, 14
<p>X-8</p> <p>EL 790'0" AZ 266°</p>	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	

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																					Y	N	A	N				
EL 737' 	47W803 -1,2	57	W	H	BC E	FEEDWATER BYPASS (3)	AB	236 174 164 164A	A,B B A A	GL GL GL AO	AO AO AO RM	AT RM LM LM	LM LM LM LM	FW - - -	- - - -	O C C C	C C C C	C V O C	C C C C	Y Y Y Y	N N N N	A A A A	N N N N	MK112	22,23,25			
EL 737' 	47W803 -1,2	57	W	H	BC E	FEEDWATER BYPASS (3)	AB	239	A,B	GL	AO	AT	LM	FW	-	O	C	C	C	C	Y	N	A	N	MK113	22,25		
EL 737' 	47W803 -1,2	57	W	H	BC E	FEEDWATER BYPASS (3)	AB	242	A,B	GL	AO	AT	LM	FW	-	O	C	C	C	C	Y	N	A	N	MK114	22,25		

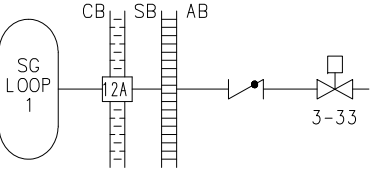
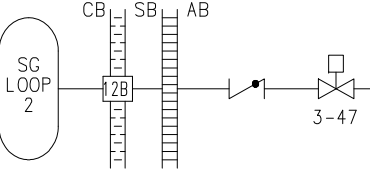
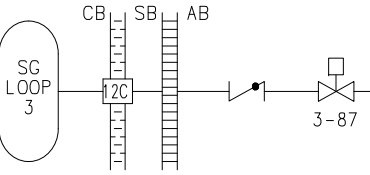
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																				Y	N	A	N				
<p>EL 737'</p>	47W803-1,2	57	W	H	BC E	FEEDWATER BYPASS (3)	AB	245	A,B	GL	AO	AT	LM	FW	-	O	C	C	C	C	Y	N	A	N	MK115	22, 23, 25	
								175	A	GL	AO	RM	LM	-	-	C	C	V	C	C	Y	N	A	N			A
								171	B	GL	AO	RM	LM	-	-	C	C	V	O	C	Y	N	A	N			A
								171A	B	A	AO	RM	LM	-	-	C	C	V	C	C	Y	N	A	N			A
<p>EL 798'11" AZ 289°</p>	47W866-1	56	A	C	AB CE	UPPER COMPARTMENT PURGE AIR SUPPLY (30)	CB SB	8	B	BF	AO	AT	RM	CV	4.0	V	O	C	C	C	Y	N	AC	N	F-002	3,6,14	
								7	A	BF	AO	AT	RM	CV	4.0	V	O	C	C	C	Y	N	AC	AC			
<p>EL 798'11" AZ 261°</p>	47W866-1	56	A	C	AB CE	UPPER COMPARTMENT PURGE AIR SUPPLY (30)	CB SB	10	A	BF	AO	AT	RM	CV	4.0	V	O	C	C	C	Y	N	AC	N	F-002	3,6,14	
								9	B	BF	AO	AT	RM	CV	4.0	V	O	C	C	C	Y	N	AC	AC			

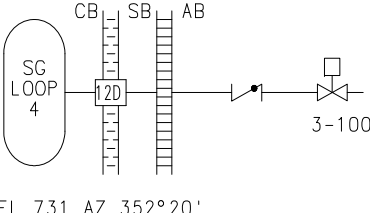
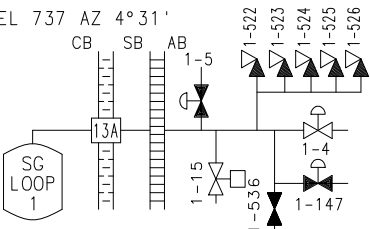
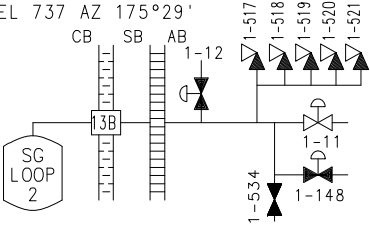
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<p>EL 737 AZ 301°</p>	47W866-1	56	A	C	AB CE	LOWER COMPARTMENT PURGE AIR SUPPLY (30)	CB SB	15 14	B A	BF BF	AO AO	AT AT	RM RM	CV CV	4.0 4.0	V V	O O	C C	C C	C C	Y Y	N N	AC AC	N	F-002	3,6,14
<p>EL 737 AZ 236° 30'</p>	47W866-1	56	A	C	AB CE	LOWER COMPARTMENT PURGE AIR SUPPLY (30)	CB SB	17 16	A B	BF BF	AO AO	AT AT	RM RM	CV CV	4.0 4.0	V V	C C	C C	C C	C C	Y Y	N N	AC AC	N	F-002	3,6,14
<p>EL 728' 6" AZ 57°</p>	47W866-1	56	A	C	AB CE	INST RM PURGE AIR SUPPLY (30)	CB SB	20 19	A B	BF BF	AO AO	AT AT	RM RM	CV CV	4.0 4.0	V V	O O	C C	C C	C C	Y Y	N N	AC AC	N	F-002	3,6,14

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																			Y	N	A	N					
 <p>SG LOOP 1 EL 731 AZ 7°40'</p>	47W803-1	57	W	H	BC E	FEEDWATER (3)	AB	33	A	GA	MO	AT	LM	FW	-	O	C	C	AI	C	Y	N	A	N	MK70	22	
 <p>SG LOOP 2 EL 731 AZ 172°20'</p>	47W803-1	57	W	H	BC E	FEEDWATER (3)	AB	47	B	GA	MO	AT	LM	FW	-	O	C	C	AI	C	Y	N	A	N	MK69	22	
 <p>SG LOOP 3 EL 731 AZ 187°40'</p>	47W803-1	57	W	H	BC E	FEEDWATER (3)	AB	87	A	GA	MO	AT	LM	FW	-	O	C	C	AI	C	Y	N	A	N	MK68	22	

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 <p>EL 731 AZ 352°20'</p>	47W803-1	57	W	H	BC E	FEEDWATER (3)	AB	100	B	GA	MO	AT	LM	FW	-	O	C	C	C	AI	C	Y	N	A	N	MK67	22
 <p>EL 737 AZ 4°31'</p>	47W801-1	57	S	H	BC E	MAIN STEAM (1)	AB	4	A, B	GL	AO	AT	LM	MS	-	O	C	C	C	C	C	Y	N	A	N	MK66	22
	47W803-2	AB	5	A, B	RV		AO	AT	RM	-	-	C	C	C	C	C	C	C	C	C	Y	N	A	N			
	AB	15	A	GA	MO		AT	RM	-	-	O	C	V	AT	C	C	N	N	A								
	AB	147	A	GA	AO		AT	RM	MS	-	-	C	V	C	C	C	C	N	N	A							
	AB	522	-	RV	-		SA	-	-	-	-	C	C	C	-	C	N	N	A								
	AB	523	-	RV	-		SA	-	-	-	-	C	C	C	-	C	N	N	A								
	AB	524	-	RV	-		SA	-	-	-	-	C	C	C	-	C	N	N	A								
	AB	525	-	RV	-		SA	-	-	-	-	C	C	C	-	C	N	N	A								
	AB	526	-	RV	-		SA	-	-	-	-	C	C	C	-	C	N	N	A								
	AB	536	-	GL	M		LM	-	-	-	-	C	V	C	-	C	N	N	A								
 <p>EL 737 AZ 175°29'</p>	47W801-1	57	S	H	BC E	MAIN STEAM (1)	AB	11	A, B	GL	AO	AT	LM	MS	-	O	C	C	C	C	C	Y	N	A	N	MK65	22
	AB	12	A, B	RV	AO		AT	RM	-	-	C	C	C	C	C	C	Y	N	A								
	AB	148	B	GA	AO		AT	RM	MS	-	-	C	V	C	C	C	C	N	N	A							
	AB	517	-	RV	-		SA	-	-	-	-	C	C	C	-	C	N	N	A								
	AB	518	-	RV	-		SA	-	-	-	-	C	C	C	-	C	N	N	A								
	AB	519	-	RV	-		SA	-	-	-	-	C	C	C	-	C	N	N	A								
	AB	520	-	RV	-		SA	-	-	-	-	C	C	C	-	C	N	N	A								
	AB	521	-	RV	-		SA	-	-	-	-	C	C	C	-	C	N	N	A								
	AB	534	-	GL	M		LM	-	-	-	-	C	V	C	-	C	N	N	A								

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<p>EL 737 AZ 184° 8'</p>	47W801-1	S	H	BC E	MAIN STEAM (1)	AB	22	A, B	GL	AO	AT	LM	MS	-	O	C	C	C	C	Y	N	A	N	MK64	22
	AB	23	A, B	RV	AO	AT	RM	-	-	C	C	C	C	C	C	C	C	C	Y	N	A	N	MK64	22	
	AB	149	A	GA	AO	AT	RM	MS	-	-	C	V	C	C	C	C	C	C	Y	N	A	N	MK64	22	
	AB	512	-	RV	-	SA	-	-	-	-	C	C	C	-	C	C	C	-	C	N	N	A	N	MK64	22
	AB	513	-	RV	-	SA	-	-	-	-	C	C	C	-	C	C	C	-	C	N	N	A	N	MK64	22
	AB	514	-	RV	-	SA	-	-	-	-	C	C	C	-	C	C	C	-	C	N	N	A	N	MK64	22
	AB	515	-	RV	-	SA	-	-	-	-	C	C	C	-	C	C	C	-	C	N	N	A	N	MK64	22
	AB	516	-	RV	-	SA	-	-	-	-	C	C	C	-	C	C	C	-	C	N	N	A	N	MK64	22
	AB	532	-	GL	M	LM	-	-	-	-	C	V	C	-	C	V	C	-	C	N	N	A	N	MK64	22
<p>EL 737 AZ 355° 52'</p>	47W801-1 47W803-2	S	H	BC E	MAIN STEAM (1)	AB	29	A, B	GL	AO	AT	LM	MS	-	O	C	C	C	C	Y	N	A	N	MK63	22
	AB	16	A, B	GA	MO	AT	RM	-	-	C	C	V	AI	C	C	C	C	C	Y	N	A	N	MK63	22	
	AB	30	A, B	RV	AO	AT	RM	-	-	C	V	C	C	C	C	C	C	C	Y	N	A	N	MK63	22	
	AB	150	B	GL	AO	AT	RM	MS	-	-	C	V	C	C	C	C	C	C	Y	N	A	N	MK63	22	
	AB	527	-	RV	-	SA	-	-	-	-	C	C	C	-	C	C	C	-	C	N	N	A	N	MK63	22
	AB	528	-	RV	-	SA	-	-	-	-	C	C	C	-	C	C	C	-	C	N	N	A	N	MK63	22
	AB	529	-	RV	-	SA	-	-	-	-	C	C	C	-	C	C	C	-	C	N	N	A	N	MK63	22
	AB	530	-	RV	-	SA	-	-	-	-	C	C	C	-	C	C	C	-	C	N	N	A	N	MK63	22
	AB	531	-	RV	-	SA	-	-	-	-	C	C	C	-	C	C	C	-	C	N	N	A	N	MK63	22
AB	538	-	GL	M	LM	-	-	-	-	C	V	C	-	C	V	C	-	C	N	N	A	N	MK63	22	
<p>EL 739' 6" AZ 9° 30'</p>	47W801-2	W	H	BE	STEAM GENERATOR BLOWDOWN (1)	AB	14	A	GL	SO	AT	RM	PA	15.0	O	C	C	C	C	Y	N	A	N	AS14A	22

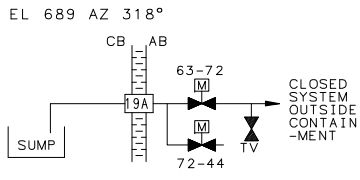
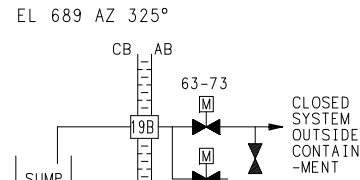
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<p>SG LOOP 4 TO X-27D EL 739'6" AZ 350°30'</p>	47W801-2	57	W	H	BE	STEAM GENERATOR BLOWDOWN (1)	AB	32	A	GL	SO	AT	RM	PA	15.0	O	C	C	C	C	Y	N	A	N	AS14B	22
<p>SG LOOP 3 TO X-27C EL 734'5" AZ 9°30'</p>	47W801-2	57	W	H	BE	STEAM GENERATOR BLOWDOWN (1)	AB	25	B	GL	SO	AT	RM	PA	15.0	O	C	C	C	C	Y	N	A	N	AS14C	22
<p>SG LOOP 1 TO X-27A EL 734'5" AZ 350°30'</p>	47W801-2	57	W	H	BE	STEAM GENERATOR BLOWDOWN (1)	AB	7	B	GL	SO	AT	RM	PA	15.0	O	C	C	C	C	Y	N	A	N	AS14D	22

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																					Y	N	AC	N				
<p>EL 733 AZ 301°</p>	47W809-1	55	W	H	BD	CVCS LETDOWN (62)	CB 72	A	GL	AO	AT	RM	PA	10.0	C	V	C	C	C	Y	N	AC	N	AS15	4			
							CB 73	A	GL	AO	AT	RM	PA	10.0	O	V	C	C	C	C	Y	N				AC		
							CB 74	A	GL	AO	AT	RM	PA	10.0	C	V	C	C	C	C	Y	N				AC		
							CB 662	-	RV	-	SA	-	-	-	C	C	C	C	C	C	Y	N				AC		
							CB 76	A	GL	AO	AT	RM	PA	10.0	C	C	C	C	C	C	Y	N				AC		
							AB 77	B	GL	AO	AT	RM	PA	10.0	O	V	C	C	C	C	Y	N				AC		
<p>EL 730'6" AZ 299°30'</p>	47W809-1	55	W	C	AD	CVCS NORMAL CHARGING (62)	CB 543	-	CK	-	SA	RM	-	-	O	V	C	-	-	N	N	A	N	MK19				
<p>EL 732 AZ 281°30'</p>	47W811-1 47W810-1	55	W	C	BD	RHR HOT LEG INJECTION (63)	CB 640	-	CK	-	SA	-	-	-	C	V	C	-	-	N	Y	A	E	MK27				
							CB 643	-	CK	-	SA	-	-	-	C	V	C	-	-	N	Y	A						
							CB 158	-	GL	AO	RM	-	RM	-	V	V	C	C	C	Y	Y	A						

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR		APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION		
X-18 EL 740 AZ 145	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	-		
EL 689 AZ 318° 	47W811-1 47W812-1	-	W	H	D	SUMP SUCTION TO RHR PUMP 1A-A (63,72)	AB AB	72 44	A A	GA GA	MO MO	RM RM	LM LM	- -	- C	C C	V V	AI AI	C C	Y Y	Y Y	A A	E	-	-	
EL 689 AZ 325° 	47W811-1 47W812-1	-	W	H	D	SUMP SUCTION TO RHR PUMP 1B-B (63,72)	AB AB	73 45	B B	GA GA	MO MO	RM RM	LM LM	- -	- C	C C	V V	AI AI	C C	Y Y	Y Y	A A	E	-	-	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA													NOTES				
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	VALVE STATUS				APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
																					Y	N	A					E
	47W811-1	55	W	C	B D	RHR PUMP DISCHARGE TR B (63)	CB 112 CB 635 CB 633	- - -	GL CK CK	AO - -	RM SA SA	- - -	- - -	- - -	V C C	V C C	C V V	C - -	C - -	Y N N	N Y Y	A A A	E	AS20A				
		47W811-1	55	W	C	BD	RHR PUMP DISCHARGE TR A (63)	CB 111 CB 632 CB 634	- - -	GL CK CK	AO - -	RM SA SA	- - -	- - -	V C C	V C C	C V V	C - -	C - -	Y N N	N Y Y	A A A	E	AS20B				
			47W811-1	56	W	C	BD	SIS PUMP DISCHARGE TO HOT LEGS TR B (63)	CB 167 CB 547 CB 549	- - -	GL CK CK	AO - -	RM SA SA	- - -	- - -	C - -	C - -	V - -	C - -	C - -	Y N N	N Y Y	A A A	E	AS21			

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES				
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	VALVE STATUS					ESF	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
																					Y	N	A	E					
	47W811-1	55	W	C	BD	SIS CHARGING PUMP DISCHARGE (63)	CB CB	174 581	- -	GL CK	AO -	RM SA	- -	- -	- -	V -	V -	C -	C -	C -	Y N	N Y	A A	E	AS22				
<p style="text-align: center;">X-23</p> <p>EL 729' AZ 283°</p>	47W625-15	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-				
	47W813-1 47W811-1 47W812-1	56	W	H	BD	RELIEF VALVE DISCHARGE (68)	CB	559	-	CK	-	SA	-	-	-	C	C	C	-	-	N	Y	A	E	AS24	25			

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		VALVE STATUS				
																						POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	Y
<p>EL 723'6" AZ 294°</p>	47W625-1	55	W	H	AD	PRESSURIZER LIQUID SAMPLE (43)	CB SB	11 12	B A	GL GL	SO AO	AT AT	RM RM	PA PA	5.0 5.0	V V	V V	C C	C C	C C	Y Y	N N	AC AC	N	MK44H	15
<p>X-25B</p> <p>EL 723'6" AZ 294°</p>	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-
<p>X-25C</p> <p>EL 723'6" AZ 294°</p>	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS/IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
VALVE STATUS																										
<p>EL 723'6" AZ 294°</p>	47W625-1	55	S	H	AD	PRESSURIZER STEAM SAMPLE (43)	CB SB	2 3	B A	GL GL	SO AO	AT AT	RM RM	PA PA	5.0 5.0	V V	V V	C C	C C	C C	Y Y	N N	AC AC	N	MK44D	15

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS/IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
VALVE STATUS																										
<p>EL 723'6" AZ 293°</p>	47W331-3	56	A	C	B	ILRT SENSOR LINE (52) TEST INSTRUMENTATION	CB SB	505 501	-	GL GL	M M	LM LM	-	-	-	C C	V V	C C	-	O O	N N	N N	AC AC	N	-	
<p>EL 723'6" AZ 293°</p>	47W331-3	56	A	C	B	ILRT SENSOR LINE (52) TEST INSTRUMENTATION	CB SB	504 500	-	GL GL	M M	LM LM	-	-	-	C C	V V	C C	-	O O	N N	N N	AC AC	N	-	
<p>EL 723'6" AZ 293°</p>	47W600-89 47W331-3	-	A	C	B	dP SENSOR (30)	SB	SNSR	-	-	-	-	-	-	O	-	O	-	C	N	N	A	E	-	12, 13	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA												NOTES			
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF		APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
<p>EL 723'6" AZ 292°</p>	47W625-2	56	W	H	A B D	STM GEN NO. 1 SAMPLE (43) SAMPLE AND WATER QUALITY	SB	55	A	GL	AO	AT	RM	PA	10.0	V	V	C	C	C	Y	N	A	N	MK046M	22
<p>EL 723'6" AZ 292°</p>	47W625-2	56	W	H	A B D	STM GEN NO. 2 SAMPLE (43)	SB	58	A	GL	AO	AT	RM	PA	10.0	V	V	C	C	C	Y	N	A	N	MK46M	22
<p>EL 723'6" AZ 292°</p>	47W625-2	56	W	H	A B D	STM GEN NO. 3 SAMPLE (43)	SB	61	A	GL	AO	AT	RM	PA	10.0	V	V	C	C	C	Y	N	A	N	MK46M	22

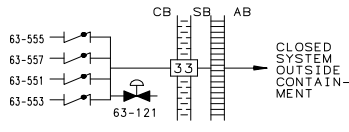
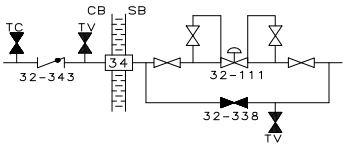
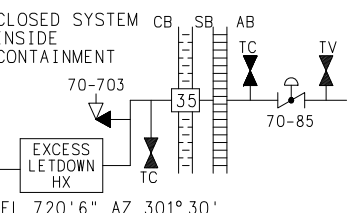
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA												NOTES			
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST		ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
<p>EL 723' 6" AZ 292°</p>	47W625-2	56	W	H	AB D	STM GEN NO. 4 SAMPLE (43)	SB	64	A	GL	AO	AT	RM	PA	10.0	V	V	C	C	C	Y	N	A	N	MK46M	22
<p>X-28</p> <p>EL 721' AZ 287° 30'</p>	47W625-15	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	-	
<p>EL 720 AZ 288° 30'</p>	47W859-2 47W859-3	56	W	C	AD	CCS FROM RC PUMP COOLERS (70)	CB	89	B	BF	MO	AT	-	PB	66.0	O	O	C	AI	C	Y	N	AC	N	MK50	8

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES				
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
<p>EL 720'6" AZ 291°30'</p>	47W811-1	56	W	C	BD	ACCUM TO HOLDUP TANKS (63)	CB 71 AB 84 AB 23 AB 28	A B B -	GL GL GL RV	AO AO AO -	AT AT AT SA	RM - - -	PA PA PA -	10.0 10.0 10.0 -	V V V C	V V V C	C C C -	C C C C	Y Y Y N	N N N N	AC AC AC AC	N	AS30	9	
<p>EL 722 AZ 289°30'</p>	47W850-9	56	A	C	AB D	FIRE PROECTION (26)	CB 1296 AB 243	- A	CK GA	- MO	SA AT	- RM	- PA	- 20.0	C O	C O	C C	- C	C C	N Y	N N	AC AC	N	MK49	
<p>EL 720'6" AZ 282°30'</p>	47W811-1	55	W	C	BD	SITO HOT LEGS (63)	CB 545 CB 543 CB 21	- - -	CK CK GL	- - AO	SA SA RM	- - -	- - -	C C V	C C V	V V C	- - C	- - C	N N Y	Y Y N	A A A	E	AS32		

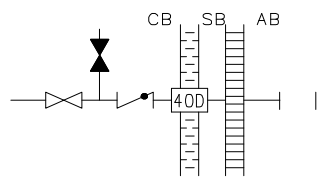
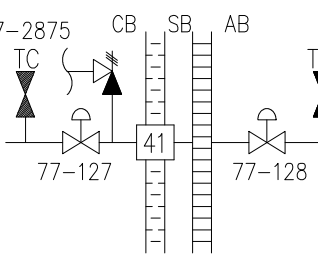
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES									
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		VALVE STATUS								
																						POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION					
 <p>EL 720'6" AZ 277°30'</p>	47W811-1	55	W	C	BD	SI TO LOW HEAD SI (63)	CB 553	-	CK	-	SA	-	-	-	C	C	V	-	-	N	Y	A	E	AS33						
							CB 551	-	CK	-	SA	-	-	-	C	C	V	-	-	N	Y	A								
							CB 557	-	CK	-	SA	-	-	-	C	C	V	-	-	N	Y	A								
							CB 555	-	CK	-	SA	-	-	-	C	C	V	-	-	N	Y	A								
 <p>EL 720'6" AZ 299°30'</p>	47W848-1	56	A	C	AB D	CONTROL AIR I & C (32)	CB 343	-	CK	-	SA	-	-	-	O	O	C	-	-	N	N	AC	N	MK43	10					
							SB 111	A	GL	AO	AT	RM	PB	10.0	O	O	C	C	C	C	C	C				Y	N	N	AC	
							SB 338	-	GL	M	LM	-	-	-	C	C	C	AI	C	C	C	C				C	N	N	N	AC
 <p>EL 720'6" AZ 301°30'</p>	47W859-2, 3	57	W	C	AD	CCS FROM EXCESS LETDN HX (70)	CB 703	-	RV	-	SA	-	-	-	V	V	V	C	C	N	N	AC	N	MK42	11					
							AB 85	B	BF	AO	AT	RM	PA	10.0	V	V	C	C	C	C	C	C				Y	N	N	AC	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS/IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS		SHIELD BLDG PENETRATION
X-39D EL 720'6" AZ 280°	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
	47W803-2	57	W	C	BC E	AUX FW (3)	AB	156	A	GL	AO	RM	LM	-	-	C	C	V	O	C	Y	N	A	E	MK9	22
							AB	156A	A	A	AO	RM	LM	-	-	C	C	V	C	C	Y	N	A			
							AB	173	B	GL	AO	RM	LM	-	-	C	C	V	C	C	Y	N	A			
	47W803-2	57	W	C	BC E	AUX FW (3)	AB	148	B	GL	AO	RM	LM	-	-	C	C	V	O	C	Y	N	A	E	MK11	22
							AB	148A	B	A	AO	RM	LM	-	-	C	C	V	C	C	Y	N	A			
							AB	172	A	GL	AO	RM	LM	-	-	C	C	V	C	C	Y	N	A			

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS		SHIELD BLDG PENETRATION
<p>X-400</p> <p>EL 750'3" AZ 299°30'</p>	48N406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
 <p>EL 748'3" AZ 299°30'</p>	47W846-2 47W492-2	-	A	C	AD	SERVICE AIR (33)	AB	-	-	BL	M	LM	-	-	-	C	C	C	-	C	-	N	AB	N	MK12	
 <p>EL 719'6" AZ 294°</p>	47W851-1	56	W	C	AD	FL SUMP PUMP DISCH (77)	CB AB CB	127 128 2875	B A -	BA BA RV	AO AO -	AT AT -	RM RM -	PA PA -	10.0 10.0 -	O O C	O O C	C C V	C C C	Y Y N	N N N	AC AC AC	N	MK47		

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
VALVE STATUS																										
<p>EL 723'6" AZ 301°</p>	47W819-1	56	W	C	ABD	PRESS RLF TK MAKE-UP (81)	CB AB	502 12	- A	CK DI	- AO	SA AT	- RM	- PA	- 10.0	V V	C C	C C	- C	- C	N Y	N N	AC AC	N	MK39	
<p>EL 728'6" AZ 293°30'</p>	47W809-1	55	W	C	AD	TO RCP SEALS (62)	CB	562	-	CK	-	SA	-	-	-	O	C	C	-	-	N	N	A	N	MK31	
<p>EL 728'6" AZ 292°</p>	47W809-1	55	W	C	AD	TO RCP SEALS (62)	CB	561	-	CK	-	SA	-	-	-	O	C	C	-	-	N	N	A	N	MK29	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE NUMBER	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION		
VALVE STATUS																										
<p>EL 727 AZ 293° 30'</p>	47W809-1	55	W	C	AD	TO RCP SEALS (62)	CB	563	-	CK	-	SA	-	-	-	O	C	C	-	-	N	N	A	N	MK28	
<p>EL 727 AZ 292°</p>	47W809-1	55	W	C	AD	TO RCP SEALS (62)	CB	560	-	CK	-	SA	-	-	-	O	C	C	-	-	N	N	A	N	MK30	
<p>EL 727' 6" AZ 281° 30'</p>	47W809-1	55	W	C	AD	FROM RCP SEALS (62)	CB AB CB	61 63 639	B A -	GA CA CK	MO MO -	AT AT SA	RM RM -	PA PA -	10.0 10.0 -	O O O	V V O	C C V	AI AI -	C C -	Y Y N	N N N	AC AC AC	N	MK37	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA											VALVE DATA											NOTES						
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION			VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		VALVE STATUS			APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
							CB	AB	SB															B	DI	AO			
<p>EL 723 AZ 281° 30'</p>	47W830-1	56	N2	C	BD	RC DRAIN TK AND PRT TO VH (77)	CB AB AB	18 19 20	B A A	DI DI DI	AO AO AO	AT AT AT	RM RM RM	PA PA PA	10.0 10.0 10.0	O O V	O O O	C C C	C C C	C C C	Y Y Y	N N N	AC AC AC	N	N	AS45			
	<p>EL 723 AZ 278°</p>	47W830-1 47W809-7	56	W	C	BD	RC DRAIN TK PUMP DISCHARGE (77/84)	CB AB AB	9 10 530	B A -	DI DI GL	AO AO M	AT AT LM	RM RM -	PA PA -	10.0 10.0 -	O O C	O O C	C C C	C C -	C C C	Y Y N	N N N	AC AC AC	N	N	AS46	18	
		<p>EL 808' 6" AZ 293°</p>	47W814-2	56	G	C	BD	GLYCOL SUPPLY (61)	CB AB CB	192 191 533	B A -	DI DI CK	AO AO -	AT AT SA	RM RM -	PA PA -	30.0 30.0 -	O O O	O O O	C C V	C C -	O O O	Y Y N	N N N	C C C	N	N	MK25	8

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES							
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		VALVE STATUS				APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
																						Y	N	C	N			
<p>EL 808' 6" AZ 296° 30'</p>	47W814-2	56	G	C	BD	GLYCOL RETURN (61)	CB AB CB	194 193 680	B A -	DI DI CK	AO AO -	AT AT SA	RM RM -	PA PA -	30.0 30.0 -	O O O	O O O	C C V	C C -	O O N	Y Y N	N N C	C C C	N	MK26	8		
<p>EL 855' 8" AZ 301° 30'</p>	47W812-1	56	W	C	AD	CONT. SPRAY (72)	CB	548	-	CK	-	SA	-	-	-	C	C	V	-	-	N	Y	A	E	MK4	26		
<p>EL 853' 8" AZ 304°</p>	47W812-1	56	W	C	AD	CONT. SPRAY (72)	CB	549	-	CK	-	SA	-	-	-	C	C	V	-	-	N	Y	A	E	MK3	26		

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
<p>EL 855'8" AZ 306°</p>	47W812-1	56	W	C	AD	RHR SPRAY (72)	CB	562	-	CK	-	SA	-	-	-	C	C	V	-	-	N	Y	A	E	MK2	26
<p>EL 853'8" AZ 308°</p>	47W812-1	56	W	C	AD	RHR SPRAY (72)	CB	563	-	CK	-	SA	-	-	-	C	C	V	-	-	N	Y	A	E	MK1	26
<p>EL 734'6" AZ 300°30'</p>	47W859-3 47W859-2	56	W	C	AD	RCP THERM BARRIER RETURN (70)	CB AB CB	87 90 687	B A -	GA GA CK	MO MO -	AT AT -	RM RM -	PB PB -	66.0 66.0 -	O O O	O O V	C C V	AI AI -	C C -	Y Y N	N N N	AC AC AC	N	MK16	8

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
<p>EL 734'6" AZ 299°30'</p>	47W859-3 47W859-2	56	W	C	AD	RCP THERM BARRIER SUPPLY (70)	CB AB	679 134	- B	CK GA	- MO	SA AT	- RM	- PB	66.0	O O	O O	C C	- AI	- C	N Y	N N	AC AC	N	MK17	
<p>X-51</p> <p>EL 728'6" AZ 286°30'</p>	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
<p>EL 722'6" AZ 299°30'</p>	47W859-2 47W859-3	56	W	C	AD	CCS TO RCP COOLERS (70)	AB CB CB	140 100 790	B A -	BF BF CK	MO MO -	AT AT SA	RM RM -	PB PB -	66.0 66.0 -	O O O	O O V	C C V	AI AI -	C C -	Y Y N	N N N	AC AC AC	N	MK40	8

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA													NOTES		
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS		SHIELD BLDG PENETRATION	
VALVE STATUS																										
<p>TO X-35 CLOSED SYSTEM INSIDE CONTAINMENT</p> <p>EL 721'6" AZ 301°</p>	47W859-2 47W859-3	57	W	C	AD	CCS TO EXCESS COOLERS LETDN HX (70)	AB	143	A	BF	MO	AT	RM	PA	66.0	V	C	C	AI	C	Y	N	AC	N	MK41	11
<p>EL 740 AZ 90°</p>	72-4334-315	-	A	C	BC	IITA RENEWAL	SB	-	-	BL	M	LM	-	-	-	C	V	C	-	O	N	N	AB	N	MK72	16
<p>X-55</p> <p>EL 771'6" AZ 262°</p>	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	

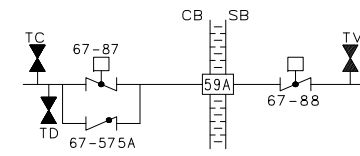
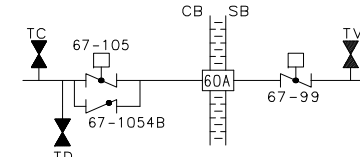
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	VALVE STATUS		
																										SB
<p>EL 720 AZ 353°</p>	47W845-3	56	W	C	AB DE	LWR CONT ERCW SUPPLY (67)	SB CB CB	107 113 1054D	A B -	BF BF CK	MO MO -	AT AT SA	RM RM -	PB PB -	66.0 66.0 -	O O O	O O O	C C V	AI AI -	C C -	Y Y N	N N N	AC AC AC	N	MK80	8
<p>X-56B</p> <p>EL 720 AZ 355° 30'</p>	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
<p>EL 720 AZ 351° 30'</p>	47W845-3	56	W	C	AB DE	LWR CONT ERCW RETURN (67)	CB SB CB	111 112 575D	B A -	BF BF CK	MO MO -	AT AT SA	RM RM -	PB PB -	66.0 66.0 -	O O O	O O O	C C V	AI AI -	C C -	Y Y N	N N N	AC AC AC	N	MK81	8

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUT/DOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS/IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
<p>FL 720'-6" AZ 174°15'</p>	47W600-89	-	A	C	B	dP SENSOR (30)	SB	SNSR	-	-	-	-	-	-	O	O	O	-	-	N	A	E	-	12		
<p>EL 720' AZ 7°</p>	47W845-3	56	W	C	AB DE	LWR CONT ERCW SUPPLY (67)	CB SB CB	1054A 83 89	- B A	CK BF BF	- MO MO	SA AT AT	- RM RM	- PB PB	66.0 66.0	O O O	O O C	V C C	- AI AI	- C C	N Y Y	N N N	AC AC AC	N	MK79	
<p>X-58B</p> <p>EL 720 AZ 13°</p>	47W600-75	54	W	C	BD	RCS PRESSURE SENSOR (68)	-	-	-	-	-	-	-	-	-	O	O	O	-	N	N	A	E	MK126	28	

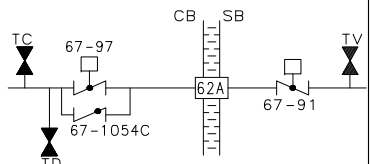
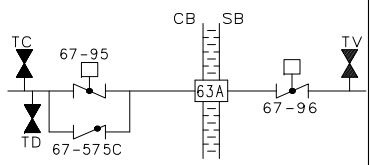
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES							
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		VALVE STATUS				APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
																						Y	N	AC	N			
 <p>EL 720 AZ 8° 30'</p>	47W845-3	56	W	C	AB DE	LWR CONT ERCW RETURN (67)	CB SB CB	87 88 575A	A B -	BF BF CK	MO MO -	AT AT SA	RM RM -	PB PB -	66.0 66.0 -	O O O	O O O	C C V	AI AI -	C C -	Y Y N	N N N	AC AC AC	N	MK78	8		
<p>X-59B</p> <p>EL 720 AZ 14° 30'</p>	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			
 <p>EL 720 AZ 173°</p>	47W845-3	56	W	C	AB DE	LWR CONT ERCW SUPPLY (67)	CB SB CB	1054B 99 105	- A B	CK BF BF	- MO MO	SA AT AT	RM RM RM	PB PB PB	- 66.0 66.0	O O O	O O O	V C C	- AI AI	- C C	N Y Y	N N N	AC AC AC	N	MK77	8		

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA													NOTES		
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS		SHIELD BLDG PENETRATION	
<p>EL 720'-6" AZ 174° 15'</p>	47W600	-	A	C	B	dP SENSOR (30)	SB	SNSR	-	-	-	-	-	-	O	O	O	-	-	-	N	A	E	-	12	
<p>EL 720' AZ 171° 30'</p>	47W845-3	56	W	C	AB DE	LWR CONT ERCW RETURN (67)	CB SB CB	103 104 575B	B A -	BF BF CK	MO MO -	AT AT SA	RM RM -	PB PB -	66.0 66.0 -	O O O	O O V	C C -	AI AI -	C C N	Y Y N	N N N	AC AC AC	N	MK76	8
<p>X-61B</p> <p>EL 720 AZ 175° 30'</p>	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES							
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		VALVE STATUS				APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
																						AC	Y	N	AC			
 <p>EL 720 AZ 187°</p>	47W845-3	56	W	C	AB DE	LWR CONT ERCW SUPPLY (67)	CB SB CB	1054C 91 97	- B A	CK BF BF	- MO MO	SA AT AT	- RM RM	- PB PB	66.0 66.0	O O O	O O O	V C C	- AI AI	- C C	N Y Y	N N N	AC AC AC	N	MK74	8		
<p>X-62B</p> <p>EL 720 AZ 193°</p>	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			
 <p>EL 720 AZ 189° 30'</p>	47W845-3	56	W	C	AB DE	LWR CONT ERCW RETURN (67)	CB SB CB	95 96 575C	A B -	BF BF CK	MO MO -	AT AT SA	RM RM -	PB PB -	66.0 66.0 -	O O O	O O O	C C V	AI AI -	- C -	Y Y N	N N N	AC AC AC	N	MK75	8		

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS		SHIELD BLDG PENETRATION
<p>EL 737 AZ 104°</p>	47W865-5	56	W	C	AB D	INST RM CHILL H2O RETURN (31)	CB	327	B	GL	AO	AT	RM	PA	10.0	O	O	C	C	C	Y	N	AC	N	MK93	8
							SB	326	A	GL	AO	AT	RM	PA	10.0	O	O	C	C	C	Y	N	AC			
							CB	3392	-	CK	-	SA	-	-	-	O	O	V	-	O	N	N	AC			
<p>EL 738 AZ 104°</p>	47W865-5	56	W	C	AB D	INST RM CHILL H2O SUPPLY (31)	CB	329	B	GL	AO	AT	RM	PA	10.0	O	O	C	C	C	Y	N	AC	N	MK91	8
							SB	330	A	GL	AO	AT	RM	PA	10.0	O	O	C	C	C	Y	N	AC			
							CB	3378	-	CK	-	SA	-	-	-	O	O	V	-	O	N	N	AC			
<p>EL 794'6" AZ 301° 15'</p>	47W845-3	56	W	C	AB DE	UPPER CONT ERCW SUPPLY (67)	CB	580D	-	CK	-	SA	-	-	-	-	-	-	-	N	N	AC	N	MK88		
							SB	141	B	PG	MO	AT	RM	PB	66.0	O	O	C	AI	C	Y	N				AC

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION		
<p>EL 796'6" AZ 301° 15'</p>	47W845-3	56	W	C	AB DE	UPPER CONT ERCW SUPPLY (67)	CB SB	580A 130	- A	CK PG	- MO	SA AT	- RM	- PB	66.0	- O	- O	- C	- AI	- C	N Y	N N	AC AC	N	MK86	
<p>EL 798'6" AZ 301° 15'</p>	47W845-3	56	W	C	AB DE	UPPER CONT ERCW RETURN (67)	CB SB CB	297 139 585B	B A -	PG PG CK	MO MO -	AT AT SA	RM RM -	PB PB -	66.0 66.0 -	O O O	O O V	C C -	AI AI -	C C N	Y Y N	N N N	AC AC AC	N	MK84	8
<p>EL 800'6" AZ 301° 15'</p>	47W845-3	56	W	C	AB DE	UPPER CONT ERCW RETURN (67)	CB SB CB	296 134 585C	A B -	PG PG CK	MO MO -	AT AT SA	RM RM -	PB PB -	66.0 66.0 -	O O O	O O V	C C -	AI AI -	C C N	Y Y N	N N N	AC AC AC	N	MK82	8

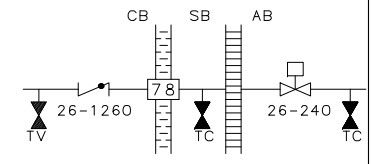
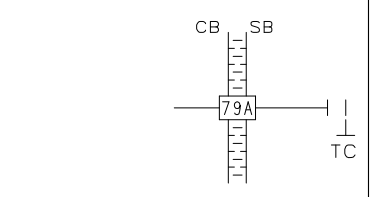
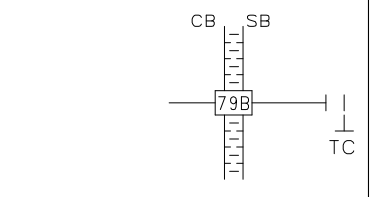
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS/IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS		SHIELD BLDG PENETRATION
VALVE STATUS																										
<p>EL 793'6" AZ 301° 15'</p>	47W845-3	56	W	C	AB DE	UPPER CONT ERCW RETURN (67)	CB	298	B	PG	MO	AT	RM	PB	66.0	O	O	C	AI	C	Y	N	AC	N	MK89	8
							SB	142	A	PG	MO	AT	RM	PB	66.0	O	O	C	AI	C	Y	N	AC			
							CB	585D	-	CK	-	SA	-	-	-	O	O	V	-	-	N	N	AC			
<p>EL 795'6" AZ 301° 15'</p>	47W845-3	56	W	C	AB DE	UPPER CONT ERCW RETURN (67)	CB	295	A	PG	MO	AT	RM	PB	66.0	O	O	C	AI	C	Y	N	AC	N	MK87	8
							SB	131	B	PG	MO	AT	RM	PB	66.0	O	O	C	AI	C	Y	N	AC			
							CB	585A	-	CK	-	SA	-	-	-	O	O	V	-	-	N	N	AC			
<p>EL 797'6" AZ 301° 15'</p>	47W845-3	56	W	C	AB DE	UPPER CONT ERCW SUPPLY (67)	CB	580B	-	CK	-	SA	-	-	-	O	O	C	-	-	N	N	AC	N	MK85	
							SB	138	B	PG	MO	AT	RM	PB	66.0	O	O	C	AI	C	Y	N	AC			
							CB	138	B	PG	MO	AT	RM	PB	66.0	O	O	C	AI	C	Y	N	AC			

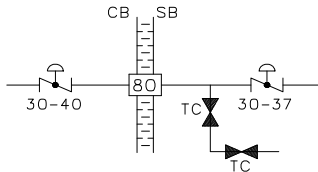
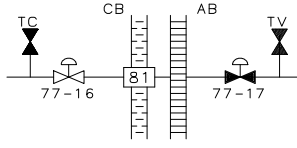
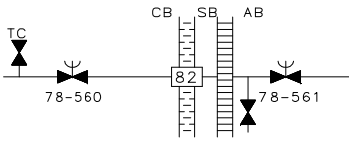
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUT/DOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS/IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
<p>EL 799'6" AZ 301°15'</p>	47W845-3	56	W	C	AB DE	UPPER CONT ERCW SUPPLY (67)	CB SB	580C 133	- A	CK PG	- MO	SA AT	- RM	- PB	- 66.0	O O	O O	C C	- AI	- C	N Y	N N	AC AC	N	MK83	
<p>EL 711 AZ 300°</p>	47W846-2	56	A	C	AD	SERVICE AIR (33)	CB AB	733 732	- -	DI DI	M M	LM LM	- -	- -	- -	C C	O O	C C	- -	C C	N N	N N	AC AC	N	MK97	
<p>EL 710'6" AZ 299°</p>	47W856-1	56	W	C	AD	DEMIN WATER (59)	CB AB	698 522	- -	DI DI	M M	LM LM	- -	- -	- -	C C	O O	C C	- -	C C	N N	N N	AC AC	N	MK96	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
 <p>EL 798' 9" AZ 301°</p>	47W850-9	56	A	C	AB D	FIRE PROTECTION (26)	CB AB	1260 240	- A	CK GA	- MO	SA AT	- RM	- PA	- 20.0	C O	C O	C C	- AI	- C	N Y	N N	AC AC	N	MK98	
 <p>EL 808 AZ 289°</p>	47W814-1 47W462-7	56	I	C	AB	ICE BLOWING (61)	SB			BL	M	LM	-	-	-	C	V	C	-	C	N	N	AB	N	MK23	
 <p>EL 809 AZ 290°</p>	47W814-1 47W462-7	56	I	C	AB	NEGATIVE RETURN (61)	SB			BL	M	LM	-	-	-	C	V	C	-	C	N	Y	AB	N	MK24	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUT/DOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS/IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
 <p>EL 720 AZ 286°30'</p>	47W866-1	56	A	C	AB CE	LWR COMP PRESS RELIEF (30)	CB SB	40 37	A B	BF BF	AO AO	AT AT	RM RM	CV CV	4.0 4.0	V V	C C	C C	C C	C C	Y Y	N N	AC AC	N N	MK71	3,6,14
 <p>EL 718 AZ 287°</p>	47W830-1	56	A	C	AD	RC DR TK TO GAS ANALYZER (77)	CB AB	16 17	B A	DI DI	AO AO	AT AT	RM RM	PA PA	10.0 10.0	V V	O O	C C	C C	C C	Y Y	N N	AC AC	N N	AS081	
 <p>EL 718 AZ 282°30'</p>	47W855-1	56	W	C	AB D	REFUEL CAV PRFCN PUMP SUCT (78)	CB AB	560 561	- -	DI DI	M M	LM LM	- -	- -	C C	V V	C C	- -	C C	N N	N N	AC AC	N N	MK94		

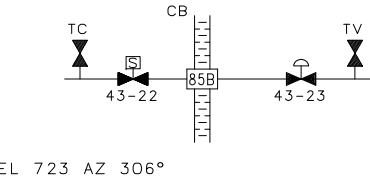
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	VALVE STATUS										
																NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
<p>EL 733 AZ 294°</p>	47W855-1	56	W	C	AB D	REFUEL CAV PRFCN PUMP SUCT (78)	CB AB	558 557	- -	DI DI	M M	LM LM	- -	- -	- -	C C	V V	C C	- -	C C	N N	N N	AC AC	N N	MK95	
<p>EL 723 AZ 307° 30'</p>	47W625-8	56	N	C	AD	P.R.T. TO GAS ANALYZER (68)	CB SB	308 307	B A	GL GL	AO AO	AT AT	RM RM	PA PA	10.0 10.0	V V	O O	C C	C C	C C	Y Y	N N	AC AC	N N	MK99M	
<p>X-84B</p> <p>EL 723 AZ 307° 30'</p>	47W600-292	-	W	C	BD	RVLIS (68)	-	-	-	-	-	-	-	-	-	O	O	O	-	-	N	N	A	E	MK101	21

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES				
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR		ESF	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
X-84C EL 723 AZ 307° 30'	47W600-292	-	W	C	BD	RVLIS (68)	-	-	-	-	-	-	-	-	O	O	O	-	-	N	N	A	E	MK101	21
X-84D EL 723 AZ 307° 30'	47W600-292	-	W	C	BD	RVLIS (68)	-	-	-	-	-	-	-	-	O	O	O	-	-	N	N	A	E	MK101	21
X-85A EL 723' AZ 306°	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA											VALVE DATA											NOTES			
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF		APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
 <p>EL 723 AZ 306°</p>	47W625-1	55	W	H	AB D	HOT LEG SAMPLE LOOPS 1 & 3 (43)	CB SB	22 23	B A	GL GL	SO AO	AT AT	RM RM	PA PA	10.0 10.0	V V	V V	C C	C C	C C	Y Y	N N	AC AC	N	MK100M	15
<p>X-85C</p> <p>EL 723' AZ 306°</p>	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
<p>X-85D</p> <p>EL 723 AZ 306°</p>	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-		

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES				
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR		ESF	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
X-86A EL 721'-6" AZ 307°30'	47W625-15	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
X-86B EL 721'-6" AZ 307°30'	47W625-15	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
X-86C EL 721'-6" AZ 307°30'	47W625-15	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES		
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST		ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
X-87C EL 721'6" AZ 306°	47W600-292 47W331-2	-	W	C	BD	RVLIS (68)	-	-	-	-	-	-	-	-	-	-	-	N	N	A	E	MK102	21
X-87D EL 721'6" AZ 306°	47W600-292 47W331-2	-	W	C	BD	RVLIS (68)	-	-	-	-	-	-	-	-	-	-	-	N	N	A	E	MK102	21
X-88 EL 733 AZ 277° 30'	48W406 47W850-9	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	MK-103	29

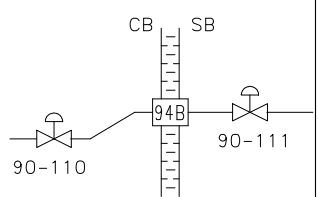
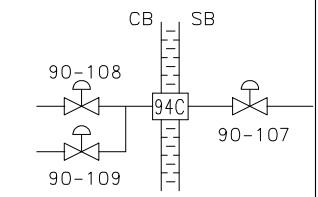
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR		APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION		
<p>X-89</p> <p>EL 732' AZ 278° 30'</p>	48W406 47W850-9	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	30	
<p>EL 729'6" AZ 280° 30'</p>	47W848-1	56	A	C	AB D	CONTROL AIR TR-B (32)	CB SB SB	323 103 318	- B -	CK GL GA	- AO M	SA AT LM	- RM -	- PB -	10.0 -	O O C	O O C	C C C	- C AI	- C C	N Y N	N N N	AC AC AC	N	MK105	10
<p>EL 723'6" AZ 291°</p>	47W848-1	56	A	C	AB D	CONTROL AIR TR-A (32)	CB SB SB	333 81 328	- A -	CK GL GA	- AO M	SA AT LM	- RM -	- PB -	10.0 -	O O C	O O C	C C C	- C AI	- C C	N Y N	N N N	AC AC AC	N	MK56	10

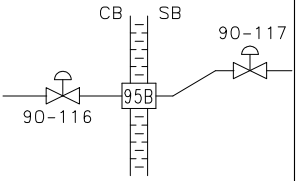
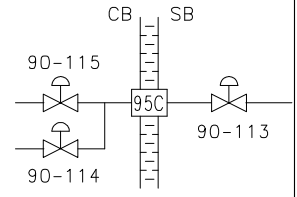
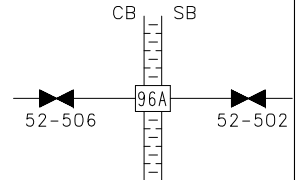
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA													NOTES
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
X-92A EL 723 AZ 290°	47W625-11	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
X-92B EL 723 AZ 290°	47W625-11	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
X-92C EL 723'-6" AZ 290°	47W625-15	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	

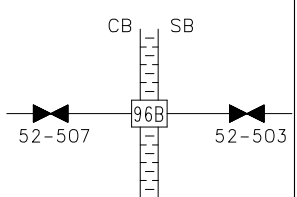
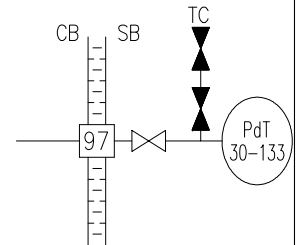
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA													NOTES					
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	VALVE STATUS				POS/IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	
																					Y	N	AC						AC
 <p>EL 741 AZ 294°</p>	47W600-105	56	A	C	AB D	LOWER COMP AIR MON INTAKE (90)	CB SB	110 111	B A	GL GL	AO AO	AT AT	RM RM	CV CV	5.0 5.0	O O	O O	C C	C C	C C	Y Y	N N	AC AC	N		MK59M			
 <p>EL 741 AZ 294°</p>	47W600-105	56	A	C	AB D	LOWER COMP AIR MON RETURN (90)	CB SB CB	108 107 109	B A B	GL GL GL	AO AO AO	AT AT AT	RM RM RM	CV CV CV	5.0 5.0 5.0	O O O	O O O	C C C	C C C	C C C	Y Y Y	N N N	AC AC AC	N		MK59M			
<p>X-95A</p> <p>EL 741 AZ 293°</p>	47W600-105	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-				

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION		
 <p>EL 741 AZ 293°</p>	47W600-105	56	A	C	AB D	UPPER COMP AIR MON INTAKE (90)	CB SB	116 117	B A	GL GL	AO AO	AT AT	RM RM	CV CV	5.0 5.0	O O	O O	C C	C C	C C	Y Y	N N	AC AC	N	MK60M	
 <p>EL 741 AZ 293°</p>	47W600-105	56	A	C	AB D	UPPER COMP AIR MON RETURN (90)	CB SB CB	114 113 115	B A B	GL GL GL	AO AO AO	AT AT AT	RM RM RM	CV CV CV	5.0 5.0 5.0	O O O	O O O	C C C	C C C	O O O	Y Y Y	N N N	AC AC AC	N	MK60M	
 <p>EL 741 AZ 292°</p>	47W331-3	56	A	C	B	ILRT SENSOR LINE (52)	CB SB	506 502	- -	GL GL	M M	LM LM	- -	- -	C C	V V	C C	- -	O O	N N	N N	AC AC	N	-		

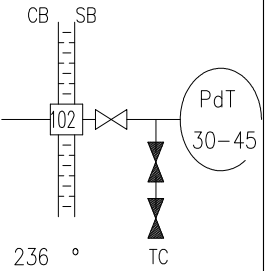
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS/IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION		
 <p>EL 741 AZ 292°</p>	47W331-3	56	A	C	B	ILRT SENSOR LINE (52)	CB SB	507 503	- -	GL GL	M M	LM LM	- -	- -	- -	C C	V V	C C	- -	O O	N N	N N	AC AC	N	-	
<p>X-96C</p> <p>741 AZ 292°</p>	47W600-89	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
 <p>EL 741 AZ 291°</p>	47W866-1 2-47W600-89	-	A	C	B	dP SENSOR (30)	SB SNSR	-	-	-	-	-	-	-	O	O	O	-	-	-	N	A	N	-	12	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES				
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT		POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
<p>EL 741 AZ 290°</p>	2-47W600-89	-	A	C	B	dP SENSOR (30)	SB	SNSR	-	-	-	-	-	-	O	O	O	-	-	N	A	N	-	-	12
<p>EL 740 AZ 236°</p> <p>EL 740 AZ 237°</p>	47W625-11	56	A	C	BD	HYDROGEN ANALYZER (43)	CB SB	202 434	A A	GL GL	SO SO	RM RM	- -	- -	C C	C C	O O	C C	O O	Y Y	N N	AC AC	E	MK-54	15
	47W625-11	56	A	C	BD	HYDROGEN ANALYZER (43)	CB SB	201 433	A A	GL GL	SO SO	RM RM	- -	- -	C C	C C	O O	C C	O O	Y Y	N N	AC AC	E	MK-54	15

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA													NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS/IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS		SHIELD BLDG PENETRATION
<p>X-101</p> <p>EL 723'6" AZ 288°</p>	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
 <p>EL 728' AZ 236 °</p>	2-47W600-89	-	A	C	B	dP SENSOR (30)	SB	SNSR	-	-	-	-	-	O	O	O	-	-	-	N	A	E	-	-	12
<p>X-103</p> <p>EL 723'6" AZ 287°</p>	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	

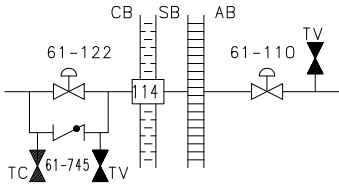
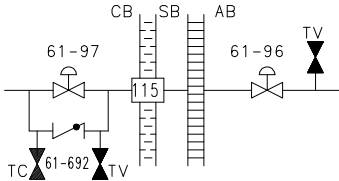
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA														NOTES			
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUT/DOWN	POST-ACCIDENT	POWER FAILURE	ILRT	VALVE STATUS					APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
																					Y	N	AB	N				
<p>EL 717'11.5" AZ 300°30'</p>	47W810-1 47W432-2	55	W	H	BD	RHR SUPPLY TO PUMPS (74.63)	CB 2 CB 8 CB 505 CB 185	B A - A	GA GA RV GL	MO MO - AO	RM RM - RM	LM LM - -	- - - PA	- - - 10.0	C C C V	V V C V	V V C C	AI AI C C	O C C C	Y Y N Y	N N N N	- - - -	E	MK38				
<p>EL 711'6" AZ 218°</p>	47W435-18 -22	-	A	C	AB D	MAINT PORT	AB -	-	BL	M	LM	-	-	-	C	V	C	-	C	N	N	AB	N	AS108				
<p>EL 711'6" AZ 222°</p>	47W435-18 -22	-	A	C	AB D	MAINT PORT	AB -	-	BL	M	LM	-	-	-	C	V	C	-	C	N	N	AB	N	AS109				

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA												NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS/IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS		SHIELD BLDG PENETRATION
X-110 EL 711'6" AZ 209°	48N406 47W435-22	-	-	-	B	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	MK32	
X-111 EL 845'9" AZ 90°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
X-112 EL 845'9" AZ 270°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA													NOTES	
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS		SHIELD BLDG PENETRATION
<p>X-113</p> <p>EL 740 AZ 216°</p>	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
 <p>EL 775 AZ 300°</p>	47W814-2	56	G	C	AB D	GLYCOL FLOOR COOLING (61)	CB AB CB	122 110 745	B A -	DI DI CK	AO AO -	AT AT SA	RM RM -	PA PA -	30.0 30.0 -	O O O	O O V	C C -	C C O	O Y N	Y Y Y	C C C	N	MK110	8
 <p>EL 771'6" AZ 300°</p>	47W814-2	56	G	C	AB D	GLYCOL FLOOR COOLING (61)	CB AB CB	97 96 692	B A -	DI DI CK	AO AO -	AT AT SA	RM RM -	PA PA -	30.0 30.0 -	O O O	O O V	C C -	C C O	O Y N	Y Y Y	C C C	N	MK111	8

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA										NOTES			
	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS/IND IN MCR	ESF		APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
X-119 EL 844'5" AZ 90°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
X-120 EL 844'5" AZ 270°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	