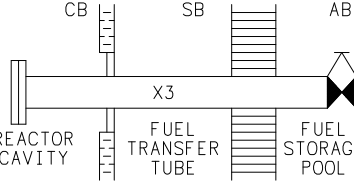
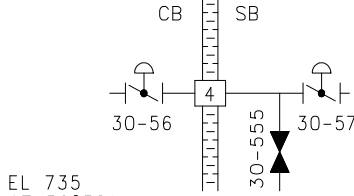
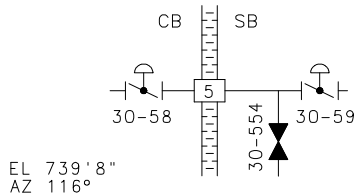
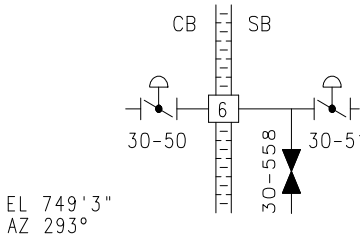
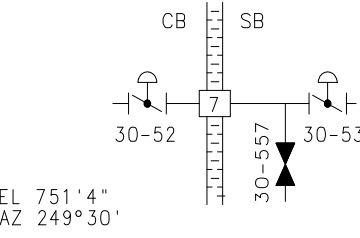
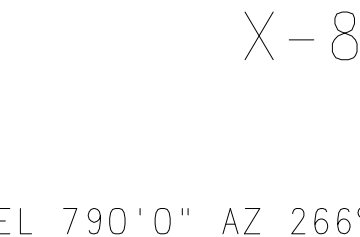
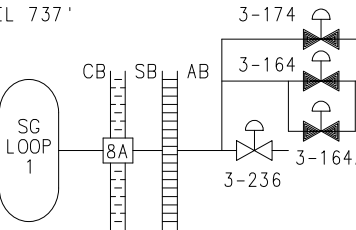
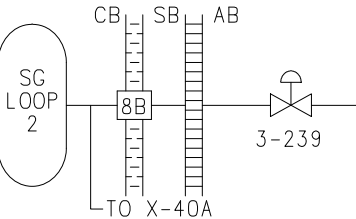
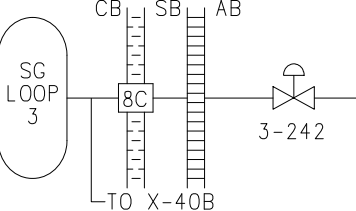


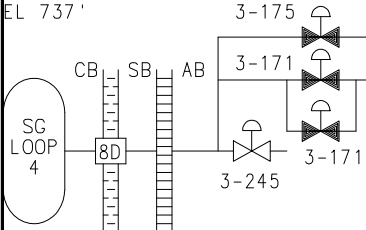
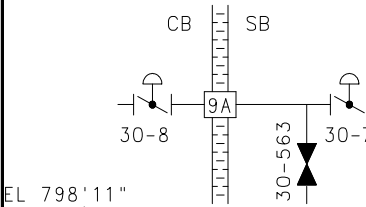
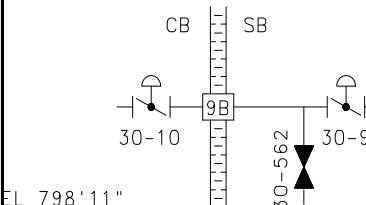
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

PENETRATION DATA										VALVE DATA																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																										
DETAILS	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	VALVE STATUS										APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																		
		CB	SB	AB	X																VALVE STATUS	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	ESF	ESF	ESF					ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF	ESF

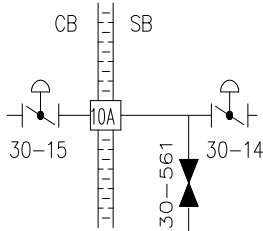
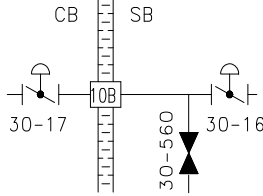
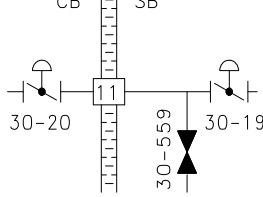
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																													
PENETRATION DATA															VALVE DATA														
DETAILS	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	VALVE STATUS					POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																				ILRT	ESF	AB	N	N					
 EL 711'3" AZ 261°50'	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			
 EL 735 AZ 36°30'	47W866-1	56	A	C	AB CE	LOWER COMPARTMENT PURGE AIR EXHAUST (30)	CB SB SB	56 57 555	A B -	BF BF GL	AO AO M	AT AT LM	RM RM -	CV CV -	4.0 4.0 -	V V LC	O O LC	C C LC	C C -	C C C	Y Y N	N N N	AC AC AC	N		F-005		3, 6, 14	
 EL 739'8" AZ 116°	47W866-1	56	A	C	AB CE	INST RM PURGE AIR EXHAUST (30)	CB SB SB	58 59 554	B A -	BF BF GL	AO AO M	AT AT LM	RM RM -	CV CV -	4.0 4.0 -	V V LC	O O LC	C C LC	C C -	C C C	Y Y N	N N N	AC AC AC	N		F-005		3, 6, 14	

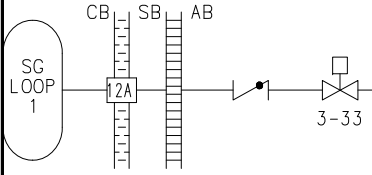
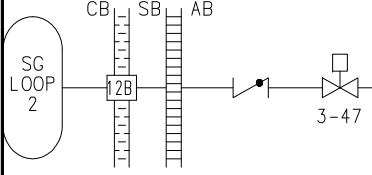
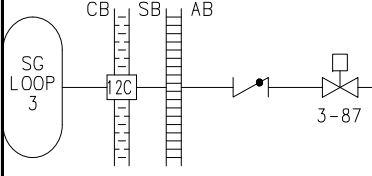
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																													
PENETRATION DATA															VALVE DATA														
DETAILS	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE 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	NOTES				
 EL 749'3" AZ 293°	47W866-1	56	A	C	AB CE	UPPER COMPARTMENT PURGE AIR EXHAUST (30)	CB SB SB	50 51 558	B A -	BF BF GL	AO AO M	AT AT LM	RM RM -	CV CV -	4.0 4.0 -	V V LC	O O LC	C C LC	C C -	C C C	Y Y N	N N N	AC AC AC	N	F-005	3, 6, 14			
 EL 751'4" AZ 249°30'	47W866-1	56	A	C	AB CE	UPPER COMPARTMENT PURGE AIR EXHAUST (30)	CB SB SB	52 53 557	A B -	BF BF GL	AO AO M	AT AT LM	RM RM -	CV CV -	4.0 4.0 -	V V LC	O O LC	C C LC	C C -	C C C	Y Y N	N N N	AC AC AC	N	F-005	3, 6, 14			
 EL 790'0" AZ 266°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-				

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																													
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DETAILS	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	VALVE STATUS					APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																					POS IND IN MCR	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 AO	AT RM RM RM	LM LM LM LM	FW - - -	- - - -	O C C C	C C C C	C C C C	C C C C	Y Y Y Y	N N N N	A A A A	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			

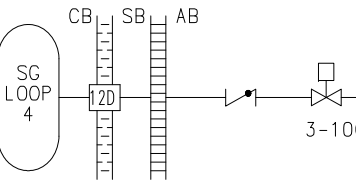
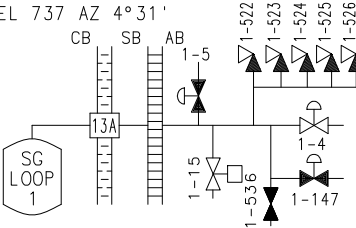
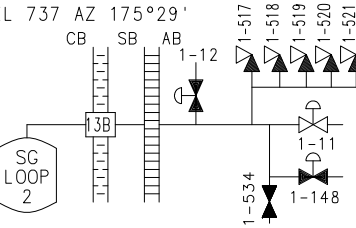
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PENETRATION DATA													VALVE DATA													
DETAILS	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	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	NOTES	
																										VALVE STATUS
 EL 737'	47W803-1,2	57	W	H	BC E	FEEDWATER BYPASS (3)	AB	245 175 171 171A	A,B A B B	GL GL GL A	AO AO AO AO	AT RM RM RM	LM LM LM LM	FW - - -	- - - -	O C C C C C	C C V C V C	C C O C C C	C C C C C C	Y Y Y Y Y Y	N N N N N N	A A A A A A	N	MK115	22, 23, 25	
 EL 798'11" AZ 289°	47W866-1	56	A	C	AB CE	UPPER COMPARTMENT PURGE AIR SUPPLY (30)	CB SB SB	8 7 563	B A -	BF BF GL	AO AO M	AT AT LM	RM RM -	CV CV -	4.0 4.0 -	V V LC	O O LC	C C LC	C C -	C C C	Y Y N	N N N	AC AC AC	N	F-002	3,6,14
 EL 798'11" AZ 261°	47W866-1	56	A	C	AB CE	UPPER COMPARTMENT PURGE AIR SUPPLY (30)	CB SB SB	10 9 562	A B -	BF BF GL	AO AO M	AT AT LM	RM RM -	CV CV -	4.0 4.0 -	V V LC	O O LC	C C LC	C C -	C C C	Y Y N	N N N	AC AC AC	N	F-002	3,6,14

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

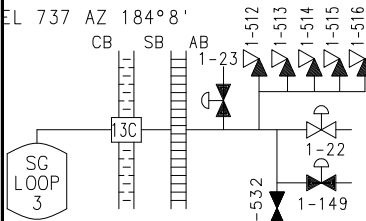
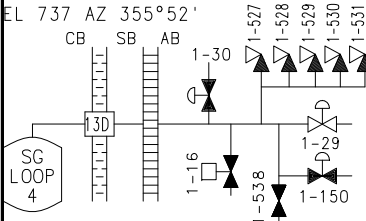
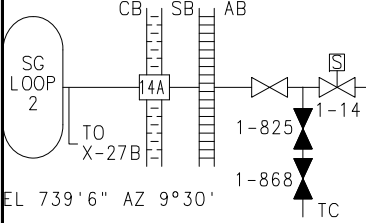
PENETRATION DATA										VALVE DATA																				
DETAILS	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	VALVE STATUS										APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	C	C	C	C				
 EL 737' AZ 301°	47W866-1	56	A	C	AB CE	LOWER COMPARTMENT PURGE AIR SUPPLY (30)	CB SB SB	15 14 561	B A -	BF BF GL	AO AO M	AT AT LM	RM RM -	CV CV -	4.0 4.0 -	V V LC	O O LC	C C LC	C C -	C C C	Y Y N	N N N	AC AC AC	N	F-002	3,6,14				
 EL 737' AZ 236°30'	47W866-1	56	A	C	AB CE	LOWER COMPARTMENT PURGE AIR SUPPLY (30)	CB SB SB	17 16 560	A B -	BF BF GL	AO AO M	AT AT LM	RM RM -	CV CV -	4.0 4.0 -	V V LC	C C LC	C C LC	C C -	C C C	Y Y N	N N N	AC AC AC	N	F-002	3,6,14				
 EL 728'6" AZ 57°	47W866-1	56	A	C	AB CE	INST RM PURGE AIR SUPPLY (30)	CB SB SB	20 19 559	A B -	BF BF GL	AO AO M	AT AT LM	RM RM -	CV CV -	4.0 4.0 -	V V LC	O O LC	C C LC	C C -	C C C	Y Y N	N N N	AC AC AC	N	F-002	3,6,14				

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																											
PENETRATION DATA														VALVE DATA													
DETAILS	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	NOTES		
																										VALVE STATUS	
	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	
	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	
	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	

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

PENETRATION DATA										VALVE DATA																NOTES		
DETAILS	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	VALVE STATUS										
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION				
 EL 731 AZ 352°20'	47W803-1	57	W	H	BC E	FEEDWATER (3)	AB	100	B	GA	MO	AT	LM	FW	-	O	C	C	AI	C	Y	N	A	N	MK67	22		
 EL 737 AZ 4°31'	47W801-1 47W803-2	57	S	H	BC E	MAIN STEAM (1)	AB	4	A, B	GL	AO	AT	LM	MS	-	O	C	C	C	C	Y	N	A	N	MK66	22		
							AB	5	A, B	RV	AO	AT	RM	-	-	C	C	C	C	C	Y	N	A					
							AB	15	A	GA	MO	AT	RM	-	-	O	C	V	C	AT	C	Y	N	A				
							AB	147	A	GA	AO	AT	RM	MS	-	C	V	C	C	C	Y	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					
 EL 737 AZ 175°29'	47W801-1	57	S	H	BC E	MAIN STEAM (1)	AB	11	A, B	GL	AO	AT	LM	MS	-	O	C	C	C	C	Y	N	A	N	MK65	22		
							AB	12	A, B	RV	AO	AT	RM	-	-	C	C	C	C	C	Y	N	A					
							AB	148	B	GA	AO	AT	RM	MS	-	C	V	C	C	C	Y	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					

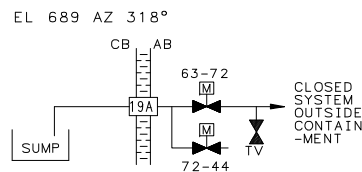
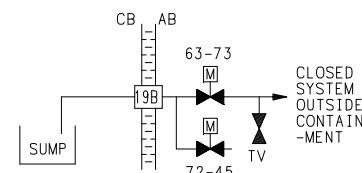
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

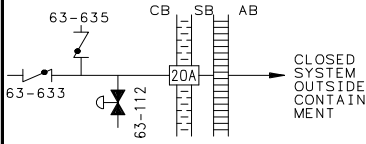
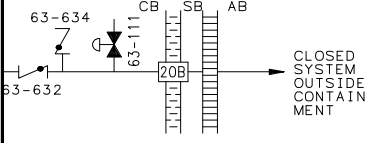
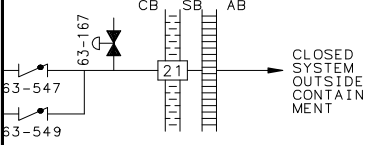
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																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR				
	47W801-1	57	S	H	BC E	MAIN STEAM (1)	AB	22	A, B	GL	AO	AT	LM	MS	-	O	C	C	C	C	Y	N	A	N	MK64	22			
							AB	23	A, B	RV	AO	AT	RM	-	-	C	C	C	C	C	Y	N	A						
							AB	149	A	GA	AO	AT	RM	MS	-	C	V	C	C	C	Y	N	A						
							AB	512	-	RV	-	SA	-	-	-	C	C	C	-	C	N	N	A						
							AB	513	-	RV	-	SA	-	-	-	C	C	C	-	C	N	N	A						
							AB	514	-	RV	-	SA	-	-	-	C	C	C	-	C	N	N	A						
							AB	515	-	RV	-	SA	-	-	-	C	C	C	-	C	N	N	A						
							AB	516	-	RV	-	SA	-	-	-	C	C	C	-	C	N	N	A						
							AB	532	-	GL	M	LM	-	-	-	C	V	C	-	C	N	N	A						
	47W801-1 47W803-2	57	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	GA	MO	AT	RM	-	-	C	C	V	AI	C	Y	N	A						
							AB	30	A, B	RV	AO	AT	RM	-	-	C	-	C	C	C	Y	N	A						
							AB	150	B	GL	AO	AT	RM	MS	-	C	V	C	C	C	Y	N	A						
							AB	527	-	RV	-	SA	-	-	-	C	C	C	-	C	N	N	A						
							AB	528	-	RV	-	SA	-	-	-	C	C	C	-	C	N	N	A						
							AB	529	-	RV	-	SA	-	-	-	C	C	C	-	C	N	N	A						
							AB	530	-	RV	-	SA	-	-	-	C	C	C	-	C	N	N	A						
							AB	531	-	RV	-	SA	-	-	-	C	C	C	-	C	N	N	A						
							AB	538	-	GL	M	LM	-	-	-	C	V	C	-	C	N	N	A						
	47W801-2	57	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			

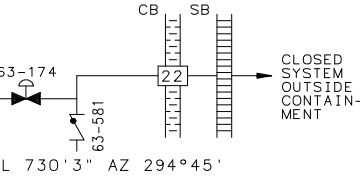
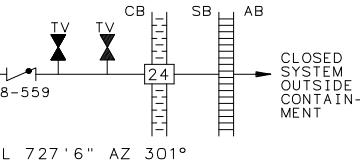
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																													
PENETRATION DATA															VALVE DATA														
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																				Y	N	A	N						
SG LOOP 4 TO X-27D CB SB AB 1-827 1-32 1-866 TC EL 739'6" AZ 350°30'	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	
SG LOOP 3 TO X-27C CB SB AB 1-826 1-25 1-869 TC EL 734'5" AZ 9°30'	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	
SG LOOP 1 TO X-27A CB SB AB 1-824 1-7 1-867 TC EL 734'5" AZ 350°30'	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	

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

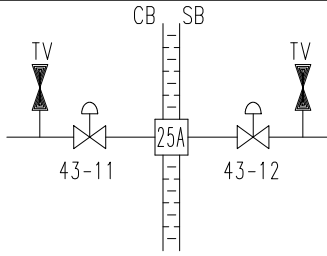
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DETAILS	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES	
																											VALVE STATUS
EL 733 AZ 301 ° 62-662 CB SB AB TC TV 62-77 TD	47W809-1	55	W	H	BD	CVCS LETDOWN (62)	CB	72 73 74 662 76 77	A A A - A B	GL GL GL RV GL GL	AO AO AO - AO AO	AT AT AT - AT AT	RM RM RM - RM RM	PA PA PA - PA PA	10.0 10.0 10.0 - 10.0 10.0	C O C C C O	V V V C C V	C C C C C C	C C C C C C	Y Y Y - Y Y	N N N - N N	AC AC AC - AC AC	N	AS15	4		
TC CB SB AB 62-543 16 CLOSED SYSTEM OUTSIDE CONTAINMENT	47W809-1	55	W	C	AD	CVCS NORMAL CHARGING (62)	CB	543	-	CK	-	SA	RM	-	-	O	V	C	-	-	N	N	A	N	MK19		
63-643 CB SB 63-640 63-158 17 CLOSED SYSTEM OUTSIDE CONTAINMENT	47W811-1 47W810-1	55	W	C	BD	RHR HOT LEG INJECTION (63)	CB	640 643 158	- - -	CK CK GL	- - AO	SA SA RM	- - -	- - -	C C V	V V V	C C C	- - C	- - C	N N Y	Y Y Y	A A A	E	MK27			

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																											
PENETRATION DATA														VALVE DATA													
DETAILS	DWG NUMBER	GEN DES CRITERION				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	VALVE STATUS				APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
		GEN DES	CRITERION	PROCESS FLUID	FLUID STATE															POS IND IN MCR	ESF	APP J TEST					
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 C	V V	AI AI	C C	Y Y	Y Y	A A	E	-		
	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 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 C	V V	AI AI	C C	Y Y	Y Y	A A	E	-		

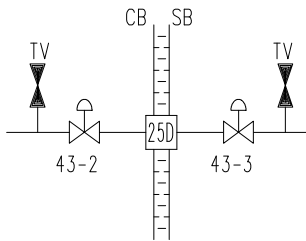
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PENETRATION DATA													VALVE DATA															
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																				POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES				
 EL 732 AZ 291°-30"	47W811-1	55	W	C	B D	RHR PUMP DISCHARGE TR B (63)	CB CB CB	112 635 633	- - -	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				
 EL 732 AZ 287°30'	47W811-1	55	W	C	BD	RHR PUMP DISCHARGE TR A (63)	CB CB CB	111 632 634	- - -	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				
 EL 728'6" AZ 289°30'	47W811-1	55	W	C	BD	SIS PUMP DISCHARGE TO HOT LEGS TR B (63)	CB CB CB	167 547 549	- - -	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																											
PENETRATION DATA													VALVE DATA														
DETAILS	DWG NUMBER	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		NOTES
	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		
X-23 EL 729' AZ 283°	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	-	E	AS24	25	

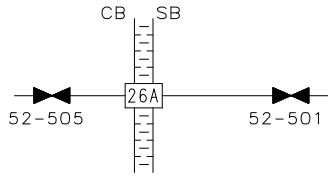
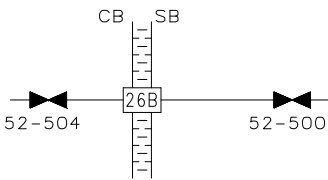
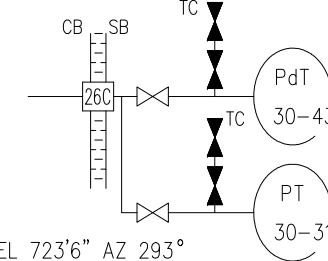
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA																			
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																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	N	Y					C
 EL 723'6" AZ 294°	47W625-1	55	W	H	AD	PRESSURIZER LIQUID SAMPLE (43)	CB SB	11 12	B A	GL GL	AO 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				
X-25B EL 723'6" AZ 294°	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-					
X-25C EL 723'6" AZ 294°	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-					

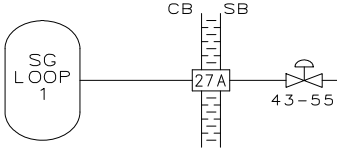
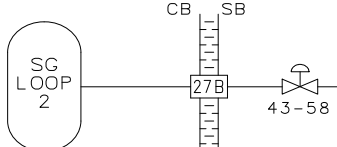
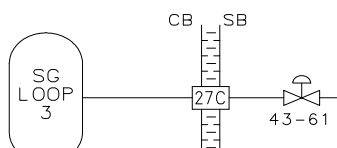
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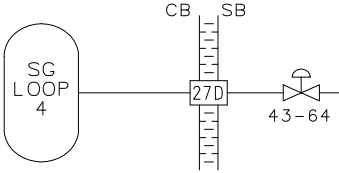
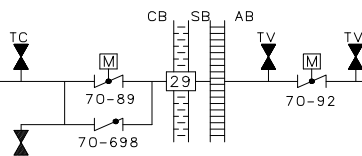
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		CB	SB	POST-ACCIDENT	POWER FAILURE					ILRT	POS IND IN MCR										ESF	Y	N	AC	Y	N	AC							
 EL 723'6" AZ 294°	47W625-1	55	S	H	AD	PRESSURIZER STEAM SAMPLE (43)	CB SB	2 3	B A	GL GL	AO AO	AT AT	RM RM	PA PA	5.0 5.0	V V	V V	C C	C C	C C	Y Y	N N	AC AC	N	MK44D	15								

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

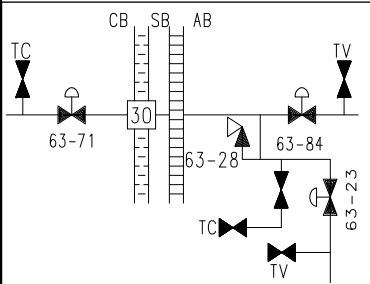
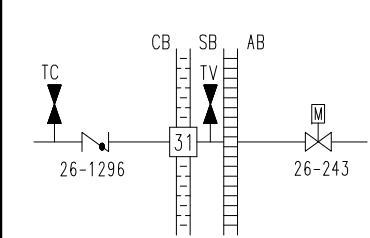
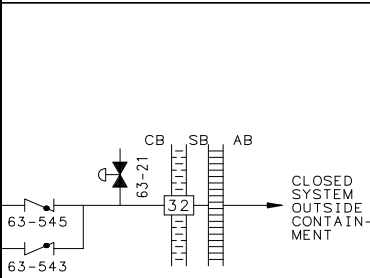
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																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	N	N				
 EL 723'6" AZ 293°	47W331-3	56	A	C	B	ILRT SENSOR LINE (52) TEST INSTRUMENTATION	CB SB	505 501	— GL — GL	M M M M	LM LM LM LM	— —	— —	— —	C C C C	V V V V	C C C C	— —	O O O O	N N N N	N N N N	AC AC AC AC	N N	— —					
 EL 723'6" AZ 293°	47W331-3	56	A	C	B	ILRT SENSOR LINE (52) TEST INSTRUMENTATION	CB SB	504 500	— GL — GL	M M M M	LM LM LM LM	— —	— —	— —	C C C C	V V V V	C C C C	— —	O O O O	N N N N	N N N N	AC AC AC AC	N N	— —					
 EL 723'6" AZ 293°	47W600-89 47W331-3	—	A	C	B	dP SENSOR (30)	SB	SNSR	— —	— —	— —	— —	— —	— —	O O	— —	O O	— —	C C	N N	N N	A A	E E	— —	12, 13				

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

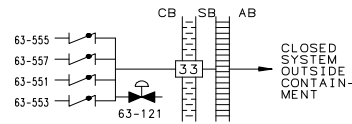
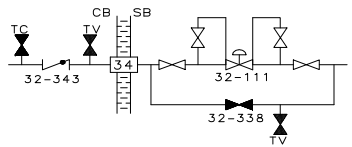
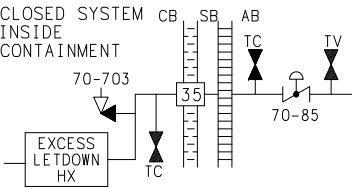
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DETAILS	DWG NUMBER	GEN DES	CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	VALVE STATUS								POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																			POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION						
 EL 723'6" AZ 292°	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		
 EL 723'6" AZ 292°	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		
 EL 723'6" AZ 292°	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		

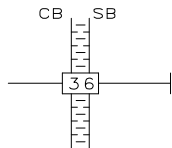
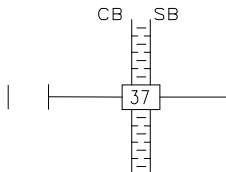
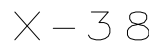
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PENETRATION DATA														VALVE DATA														
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		W	H	AB D														NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION		
 EL 723'6" AZ 292°	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	
X-28 EL 721' AZ 287°30'	47W625-15	-	-	-	-		SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-		
 EL 720 AZ 288°30'	47W859-2 47W859-3	56	W	C	AD		CCS FROM RC PUMP COOLERS (70)	CB AB CB	89 92 698	B A -	BF BF CK	MO MO -	AT AT SA	- - -	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	MK50	8	

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

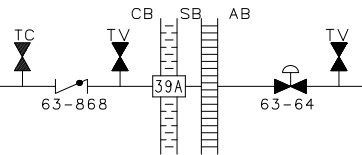
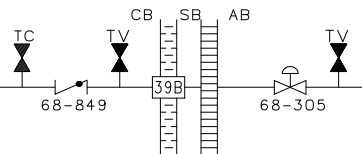
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																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	Y	N	AC	C	Y				
 EL 720'6" AZ 291°30'	47W811-1	56	W	C	BD	ACCUM TO HOLDUP TANKS (63)	CB AB AB AB	71 84 23 28	A B B -	GL GL GL RV	AO AO AO -	AT AT AT SA	RM - - -	PA PA PA -	10.0 10.0 10.0 -	V V V C	V V V C	C C C C	C C C C	C C C C	Y Y Y N	N N N N	AC AC AC AC	N	AS30	9					
 EL 722 AZ 289°30'	47W850-9	56	A	C	AB D	FIRE PROECTION (26)	CB AB	1296 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						
 EL 720'6" AZ 282°30'	47W811-1	55	W	C	BD	SI TO HOT LEGS (63)	CB CB CB	545 543 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							

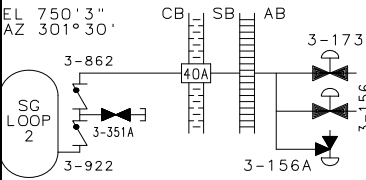
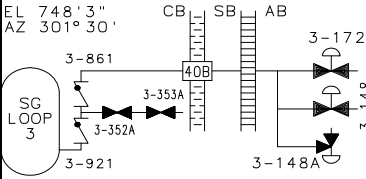
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

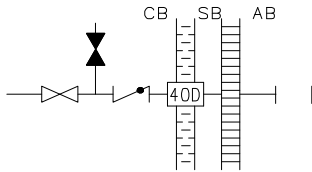
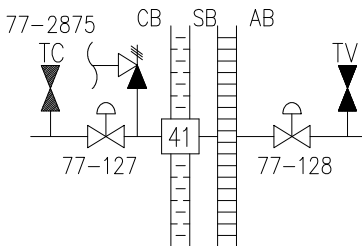
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DETAILS	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	VALVE STATUS								APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	POST-ACCIDENT	POWER FAILURE	ILRT				
 EL 720' 6" AZ 277° 30'	47W811-1	55	W	C	BD	SI TO LOW HEAD SI (63)	CB CB CB CB CB	553 551 557 555 121	- - - - -	CK CK CK CK GL	- - - - AO	SA SA SA SA RM	- - - - -	- - - - -	- - - - -	C C C C V	C C C C V	V V V V C	- - - - C	- - - - C	N N N N Y	Y Y Y Y N	A A A A A	E	AS33				
 EL 720' 6" AZ 299° 30'	47W848-1	56	A	C	AB D	CONTROL AIR I & C (32)	CB SB SB	343 111 338	- A -	CK GL GL	- 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	MK43	10			
 EL 720' 6" AZ 301° 30'	47W859-2, 3	57	W	C	AD	CCS FROM EXCESS LETDN HX (70)	CB AB	703 85	- B	RV BF	- AO	SA AT	- RM	- PA	- 10.0	V V	V V	V C	C C	C C	N Y	N N	AC AC	N	MK42	11			

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																													
PENETRATION DATA															VALVE DATA														
DETAILS	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	VALVE STATUS							SHIELD BLDG PENETRATION	NOTES
		POS IND IN MCR	APP J TEST	ESF																									
 EL 742'6" AZ 280°	72-4334-310	-	A	C	AB	SG. CHEM. CLEANING	SB	-	-	BL	M	LM	-	-	-	C	V	C	-	C	N	N	AB	N	MK20				
 EL 771'6" AZ 265°	47W301-1	-	A	C	AB	MAINT. PORT	CB	-	-	BL	M	LM	-	-	-	C	V	C	-	C	N	N	AB	N	MK14				
 EL 771'6" AZ 268°	48N406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-				

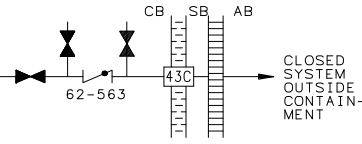
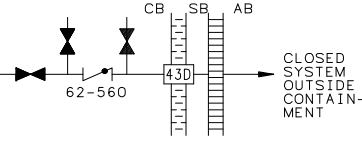
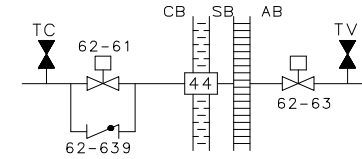
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

PENETRATION DATA										VALVE DATA																		
DETAILS	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	VALVE STATUS							APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	N				
 EL 720'6" AZ 280°	47W830-6	56	N2	C	AD	N2 TO ACCUM (63)	CB AB	868 64	- A	CK GL	- AO	SA AT	- RM	- PA	- 10.0	O V	O O	C C	- C	- C	N Y	N N	AC AC	N	MK55M			
 EL 720'6" AZ 280°	47W830-6	56	N2	C	AD	N2 TO PRESS RELIEF TK (68)	CB AB	849 305	- A	CK DI	- AO	SA AT	- RM	- PA	- 10.0	O O	O O	C C	- C	- C	N Y	N N	AC AC	N	MK55M			
X-39C EL 720'6" AZ 280°	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			

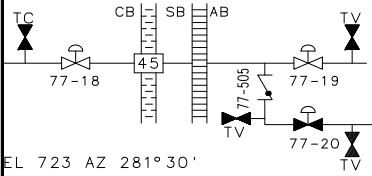
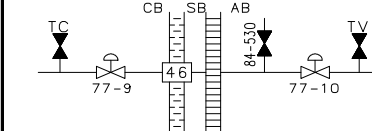
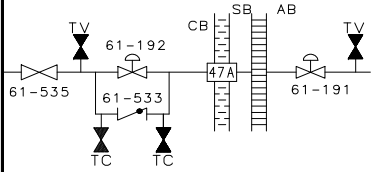
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PENETRATION DATA													VALVE DATA														
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																				ILRT	POS IND IN MCR	ESF					
X-39D EL 720'6" AZ 280°	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			
	47W803-2	57	W	C	BC E	AUX FW (3)	AB AB AB	156 156A 173	A A B	GL A GL	AO AO AO	RM RM RM	LM LM LM	- - -	- - -	C C C	C C C	V V V	O C C	C C C	Y Y Y	N N N	A A A	E	MK9	22	
	47W803-2	57	W	C	BC E	AUX FW (3)	AB AB AB	148 148A 172	B B A	GL A GL	AO AO AO	RM RM RM	LM LM LM	- - -	- - -	C C C	C C C	V V V	O C C	C C C	Y Y Y	N N N	A A A	E	MK11	22	

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																											
PENETRATION DATA														VALVE DATA													
DETAILS	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	VALVE STATUS				APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																				POS IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS				
X-400 EL 750'3" AZ 299°30'	48N406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-		
 EL 748'3" AZ 299°30'	47W846-2 47W492-2	-	A	C	AD	SERVICE AIR (33)	AB	-	-	BL	M	LM	-	-	-	C	C	C	-	C	-	N	AB	N	MK12		
 EL 719'6" AZ 294°	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	C C C	Y Y N	N N N	AC AC AC	N	MK47		

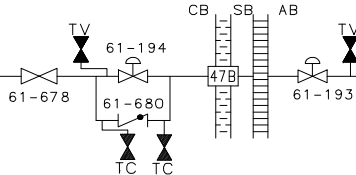
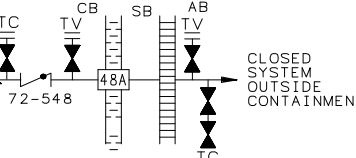
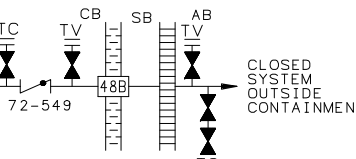
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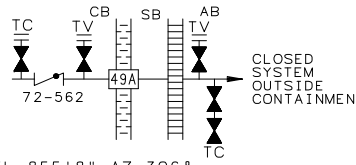
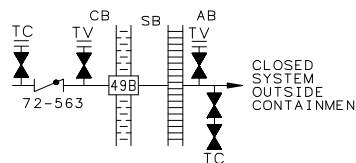
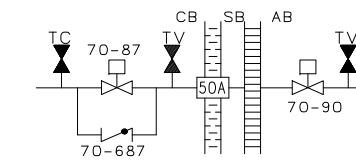
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																NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION				
 EL 727' AZ 293° 30'	47W809-1	55	W	C	AD	TO RCP SEALS (62)	CB	563	-	CK	-	SA	-	-	-	O	C	C	-	-	N	N	A	N	MK28			
 EL 727' AZ 292°	47W809-1	55	W	C	AD	TO RCP SEALS (62)	CB	560	-	CK	-	SA	-	-	-	O	C	C	-	-	N	N	A	N	MK30			
 EL 727' 6" AZ 281° 30'	47W809-1	55	W	C	AD	FROM RCP SEALS (62)	CB AB CB	61 63 639	B A -	GA GA 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			

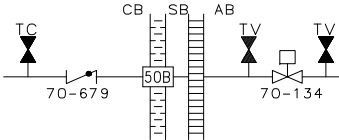
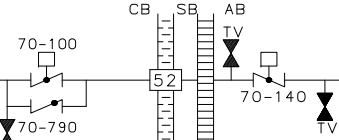
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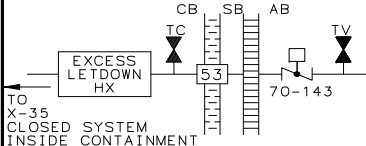
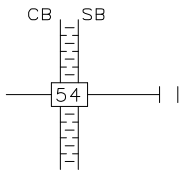
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																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	POST-ACCIDENT	POWER FAILURE				
 EL 723 AZ 281° 30'	47W830-1	56	N2	C	BD	RC DRAIN TK AND PRT TO VH (77)	CB AB AB	18 19 20	B A A	DI DI DI	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	AS45						
 EL 723 AZ 278°	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	AS46	18					
 EL 808' 6" AZ 293°	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	MK25	8					

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

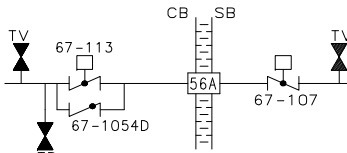
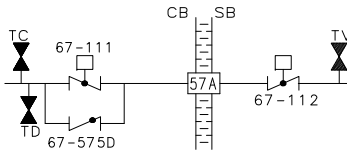
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DETAILS	DWG NUMBER	GEN DES	CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	VALVE STATUS						APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																					POS IND IN MCR	ESF	POS IND IN MCR	ESF	APP J TEST					
 EL 808' 6" AZ 296° 30'	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 O	Y Y N	N N N	C C C	N C C					MK26	8
 EL 855' 8" AZ 301° 30'	47W812-1	56	W	C	AD	CONT. SPRAY (72)	CB	548	-	CK	-	SA	-	-	-	C	C	V	-	-	N	Y	A	E					MK4	26
 EL 853' 8" AZ 304°	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																												
PENETRATION DATA													VALVE DATA															
DETAILS	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	VALVE STATUS										NOTES
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION				
	47W812-1	56	W	C	AD	RHR SPRAY (72)	CB	562	-	CK	-	SA	-	-	-	C	C	V	-	-	N	Y	A	E	MK2	26		
	47W812-1	56	W	C	AD	RHR SPRAY (72)	CB	563	-	CK	-	SA	-	-	-	C	C	V	-	-	N	Y	A	E	MK1	26		
	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 N	Y Y N	N N N	AC AC AC	N	MK16	8		

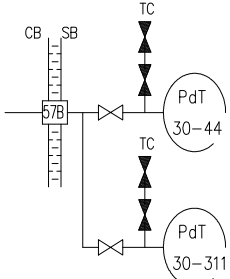
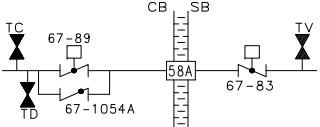
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DETAILS	DWG NUMBER	GEN DES CRITERION				PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	VALVE STATUS										NOTES
 EL 734'6" AZ 299°30'	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					
 EL 728'6" AZ 286°30'	48W406	-	-	-	-		SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-					
 EL 722'6" AZ 299°30'	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 O	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																													
PENETRATION DATA															VALVE DATA														
DETAILS	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	VALVE STATUS										NOTES	
																		TO X-35 CLOSED SYSTEM INSIDE CONTAINMENT	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION						
 TO X-35 CLOSED SYSTEM INSIDE CONTAINMENT EL 721'6" AZ 301°	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			
 EL 740 AZ 90°	72-4334-315	-	A	C	BC	IITA RENEWAL	SB	-	-	BL	M	LM	-	-	-	C	V	C	-	O	N	N	AB	N	MK72	16			
X-55 EL 771'6" AZ 262°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-				

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

PENETRATION DATA										VALVE DATA																					
DETAILS	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	VALVE STATUS										APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	N	AC	AC	AC				
 EL 720 AZ 353°	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					
X-56B EL 720 AZ 355°30'	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-					
 EL 720 AZ 351°30'	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					

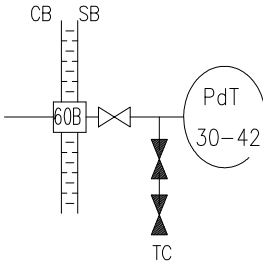
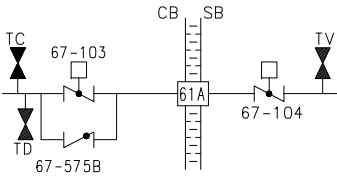
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA																		
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																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	AC	AC	AC	Y				
	47W600-89	-	A	C	B	dP SENSOR (30)	SB	SNSR	-	-	-	-	-	-	-	O	O	O	-	-	-	N	A	E	-		12		
	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 O	V C C	- AI AI	- C C	N Y Y	N N N	AC AC AC	N	MK79				
	47W600-75	54	W	C	BD	RCS PRESSURE SENSOR (68)	-	-	-	-	-	-	-	-	-	O	O	O	-	N	N	A	E	MK126		28			

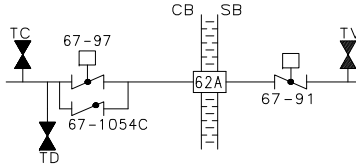
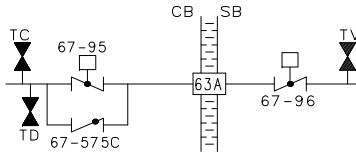
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

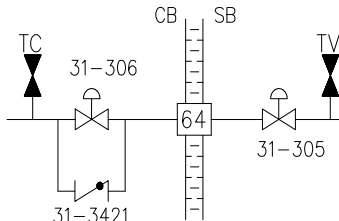
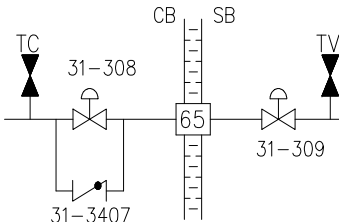
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																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	N	Y	N	AC	AI					C	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O	O

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

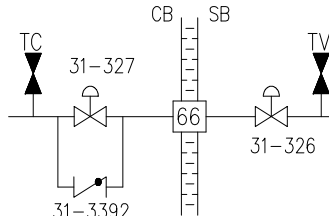
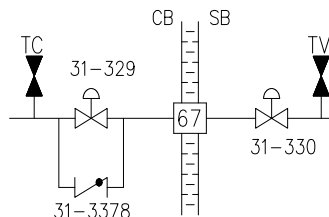
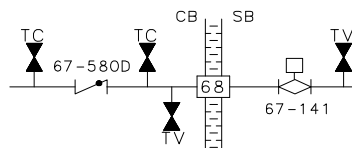
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		A	C	B	N															A	E												
 EL 720'-6" AZ 174° 15'	47W600	-	A	C	B	dP SENSOR (30)	SB	SNSR	-	-	-	-	-	-	-	-	O	O	O	-	-	-	N	A	E	-		12					
 EL 720' AZ 171° 30'	47W845-3	56	W	C	AB DE	LWR CONT ERCW RETURN (67)	CB SB CB	103 104 575B	B A -	BF BF CK	MO MO -	AT AT SA	RM RM -	PB PB -	66.0 66.0 -	O O O	O O O	C C V	AI AI -	C C -	Y Y N	N N N	AC AC AC	N		MK76	8						
X-61B EL 720 AZ 175° 30'	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-							

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

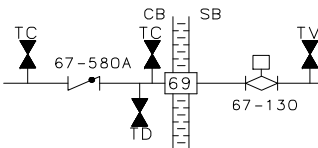
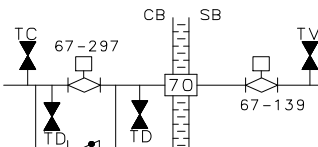
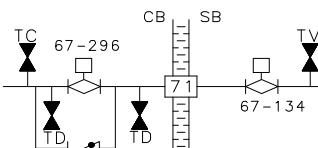
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																	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	AI	C	V				
 EL 720 AZ 187°	47W845-3	56	W	C	AB DE	LWR CONT ERCW SUPPLY (67)	CB SB CB	1054C 91 97	- B A	CK BF BF	- MO MO	SA AT AT	- RM RM	- PB PB	- 66.0 66.0	O O O	O O O	V C C	- AI AI	- C C	N Y Y	N N N	AC AC AC	N	MK74	8				
X-62B EL 720 AZ 193°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-					
 EL 720 AZ 189° 30'	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 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																																
PENETRATION DATA														VALVE DATA																		
DETAILS	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	VALVE STATUS				POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
X-63B	48W406	-	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-				
EL 720 AZ 194°30'																																
	47W865-5	56	W	C	AB	D	INST RM CHILL H2O RETURN (31)	CB SB CB	306 305 3421	A B -	GL GL CK	AO AO -	AT AT SA	RM RM -	PA PA -	10.0 10.0 -	O O O	O O O	C C V	C C -	C C -	Y Y N	N N N	AC AC AC	N	MK92			8			
EL 737 AZ 65°																																
	47W865-5	56	W	C	AB	D	INST RM CHILL H2O SUPPLY (31)	CB SB CB	308 309 3407	A B -	GL GL CK	AO AO -	AT AT SA	RM RM -	PA PA -	10.0 10.0 -	O O O	O O O	C C V	C C -	C C -	Y Y N	N N N	AC AC AC	N	MK90			8			
EL 738 AZ 65°																																

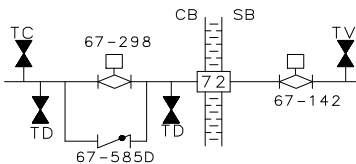
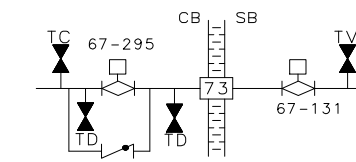
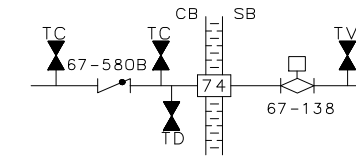
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

PENETRATION DATA										VALVE DATA																					
DETAILS	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	VALVE STATUS										APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	Y	N	AC	C	O	V				
 EL 737 AZ 104°	47W865-5	56	W	C	AB D	INST RM CHILL H2O RETURN (31)	CB SB CB	327 326 3392	B A -	GL GL CK	AO AO -	AT AT SA	RM RM -	PA PA -	10.0 10.0 -	O O O	O O O	C C V	C C -	C C O	Y Y N	N N N	AC AC AC	N	MK93	8					
 EL 738 AZ 104°	47W865-5	56	W	C	AB D	INST RM CHILL H2O SUPPLY (31)	CB SB CB	329 330 3378	B A -	GL GL CK	AO AO -	AT AT SA	RM RM -	PA PA -	10.0 10.0 -	O O O	O O V	C C C	C C -	C C O	Y Y N	N N N	AC AC AC	N	MK91	8					
 EL 794 '6" AZ 301° 15'	47W845-3	56	W	C	AB DE	UPPER CONT ERCW SUPPLY (67)	CB SB	580D 141	- B	CK PG	- MO	SA AT	- RM	- PB	- 66.0	- O	- O	- C	- AI	- C	N Y	N N	AC AC	N	MK88						

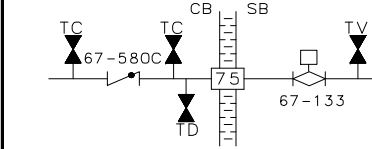
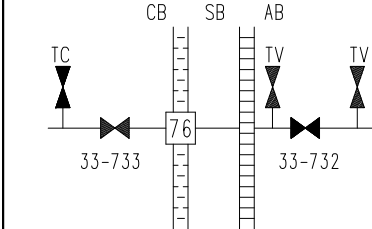
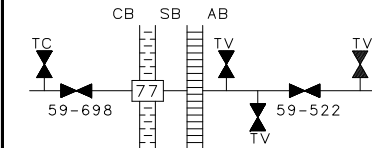
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

PENETRATION DATA										VALVE DATA																			
DETAILS	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	VALVE STATUS								APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	N	Y				
 EL 796'6" AZ 301° 15'	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				
 EL 798'6" AZ 301° 15'	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 V	AI AI -	C C -	Y Y N	N N N	AC AC AC	N	MK84	8			
 EL 800'6" AZ 301° 15'	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 V	AI AI -	C C -	Y Y N	N N N	AC AC AC	N	MK82	8			

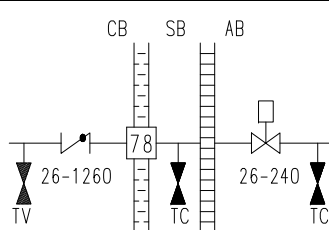
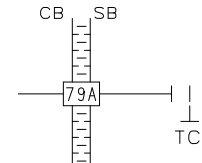
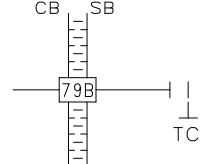
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

PENETRATION DATA										VALVE DATA																					
DETAILS	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	VALVE STATUS										APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	Y	N	AC	C	AI	C				
 EL 793'6" AZ 301° 15'	47W845-3	56	W	C	AB DE	UPPER CONT ERCW RETURN (67)	CB SB CB	298 142 585D	B A -	PG PG 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	MK89	8					
 EL 795'6" AZ 301° 15'	47W845-3	56	W	C	AB DE	UPPER CONT ERCW RETURN (67)	CB SB CB	295 131 585A	A B -	PG PG 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	MK87	8					
 EL 797'6" AZ 301° 15'	47W845-3	56	W	C	AB DE	UPPER CONT ERCW SUPPLY (67)	CB SB	580B 138	- B	CK PG	- MO	SA AT	- RM	- PB	- 66.0	O O	O O	C C	- AI	- C	N Y	N N	AC AC	N	MK85						

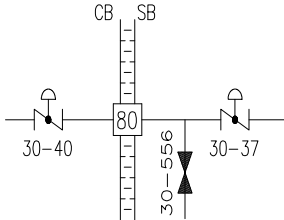
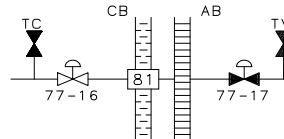
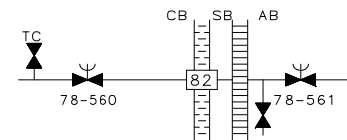
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

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	VALVE STATUS										
																		SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION			
 EL 799'6" AZ 301°15'	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			
 EL 711' AZ 300°	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			
 EL 710'6" AZ 299°	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			

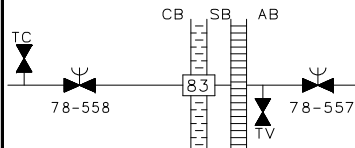
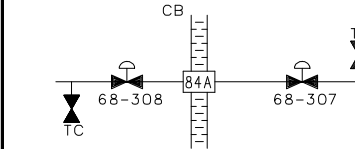
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

PENETRATION DATA										VALVE DATA																				NOTES			
DETAILS	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	VALVE STATUS										ESF		APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
																			POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	AI	C	N	N	AC	N					
 EL 708'9" AZ 301°	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								
 EL 808 AZ 289°	47W814-1 47W462-7	56	I	C	AB	ICE BLOWING (61)	SB			BL	M	LM	—	—	—	C	V	C	—	C	N	N	AB	N	MK23								
 EL 809 AZ 290°	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

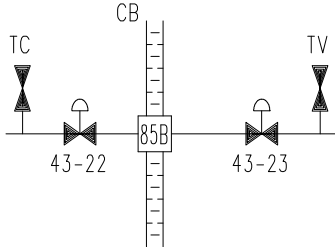
PENETRATION DATA										VALVE DATA																					
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																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	N	AC	N	AC				
	47W866-1	56	A	C	AB CE	LWR COMP PRESS RELIEF (30)	CB SB SB	40 37 556	A B -	BF BF GL	AO AO M	AT AT LM	RM RM -	CV CV -	4.0 4.0 -	V V LC	C C LC	C C LC	C C -	C C C	Y Y N	N N N	AC AC AC	N	MK71	3,6,14					
	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	ASO81						
	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	MK94						

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

PENETRATION DATA										VALVE DATA																				
DETAILS	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	VALVE STATUS										APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	N	Y	N				
 EL 733 AZ 294°	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	MK95					
 EL 723 AZ 307° 30'	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	MK99M					
X-84B EL 723 AZ 307° 30'	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																															
PENETRATION DATA														VALVE DATA																	
DETAILS	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	VALVE STATUS										NOTES
		-	W	C	BD																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	-	-					

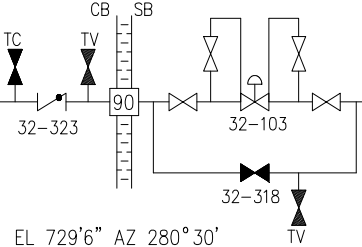
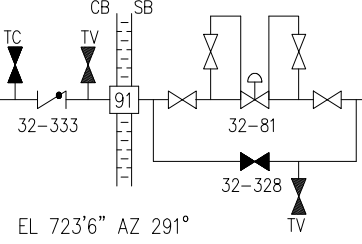
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

DETAILS	PENETRATION DATA										VALVE DATA																			
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																	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	N	Y	N				
 EL 723' AZ 306°	47W625-1	55	W	H	AB D	HOT LEG SAMPLE LOOPS 1 & 3 (43)	CB SB	22 23	B A	GL GL	AO 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				
X-85C EL 723' AZ 306°	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-					
X-85D EL 723 AZ 306°	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-					

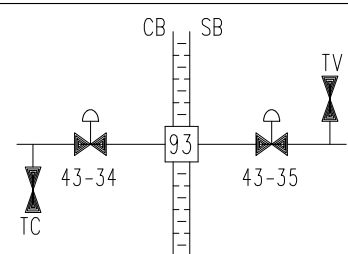
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																												
PENETRATION DATA													VALVE DATA															
DETAILS	DWG NUMBER	GEN DES CRITERION	PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE 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	VALVE STATUS			APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																						ESF	APP J TEST	ESSENTIAL/NON-ESS				
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																												
PENETRATION DATA														VALVE DATA														
DETAILS	DWG NUMBER	GEN DES CRITERION				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	NOTES
		GEN DES	CRITERION	PROCESS FLUID	FLUID STATE																POS IND IN MCR	ESF	APP J TEST	ESSENTIAL/NON-ESS				
X-86D EL 721'6" AZ 307°30'	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			
X-87A EL 721'6" AZ 306°	47W331-2	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-				
X-87B EL 721'6" AZ 306°	47W600-292 47W331-2	-	W	C	BD	RVLIS (68)	-	-	-	-	-	-	-	-	-	-	-	-	-	N	N	A	E	-	21			

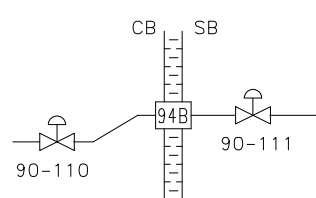
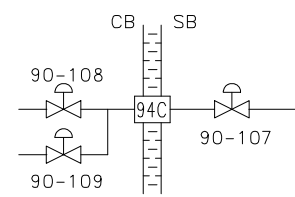
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PENETRATION DATA														VALVE DATA														
DETAILS	DWG NUMBER	GEN DES CRITERION				PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	VALVE STATUS				APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
		-	W	C	BD																N	N	A	E				
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																										
PENETRATION DATA													VALVE DATA													
DETAILS	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	VALVE STATUS				APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES	
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR					
X-89	48W406 47W850-9	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	MK-104	30	
EL 732 AZ 278° 30'																										
	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
EL 729'6" AZ 280° 30'																										
	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
EL 723'6" AZ 291°																										

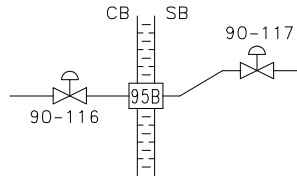
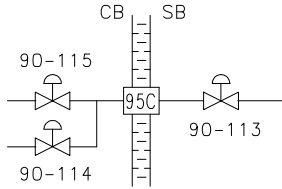
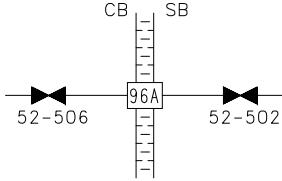
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PENETRATION DATA														VALVE DATA																
DETAILS	DWG NUMBER	GEN DES CRITERION				PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI 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	NOTES
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																												
PENETRATION DATA														VALVE DATA														
DETAILS		NUMBER	CRITERION	FLUID	LEAKAGE PATHS	NUMBER	ORIENTATION	ORIENTATION	NUMBER	TRAIN	E	CODE	CODE	SIGNAL	ME	VALVE STATUS										NON-ESS	PG	ON
																IN	IDENT	FAILURE	MCR	NON-ESS	PG	ON						
NOTES																												
X-92D	47W331-3	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-		
EL 723'6" AZ 290°																												
	47W625-2	56	W	C	AB D	ACCUM SAMPLE (43)	CB SB	34 35	B A	GL GL	AO AO	AT AT	RM RM	PA PA	5.0 5.0	V V	C C	C C	C C	C C	Y Y	N N	AC AC	N	MK58			
EL 723'6" AZ 289°																												
X-94A	47W600-105 48W406	-	A	C	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			
EL 741 AZ 294°																												

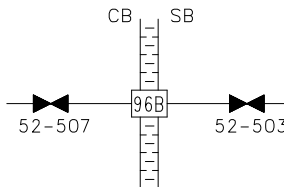
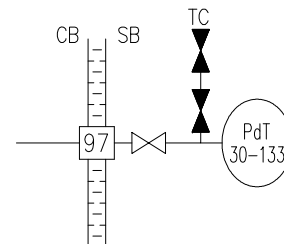
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

PENETRATION DATA										VALVE DATA																				
DETAILS	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	VALVE STATUS							APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES		
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	Y					N	AC
	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	
EL 741 AZ 294°	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		
	47W600-105	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-	
X-95A	47W600-105	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
EL 741 AZ 293°	47W600-105	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	

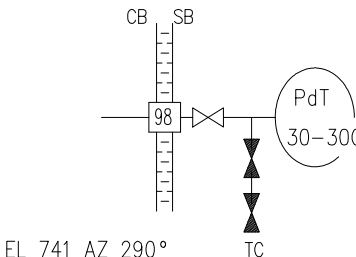
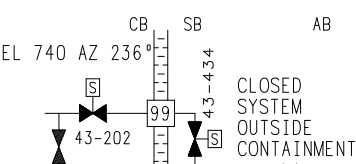
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

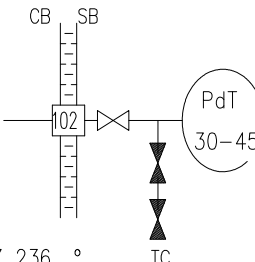
PENETRATION DATA										VALVE DATA																				NOTES		
DETAILS	DWG NUMBER	GEN DES	CRITERION	PROCESS	FLUID	STATE	POSS LEAK PATHS	SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	VALVE STATUS										APP J TEST		ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION
																			SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	N	Y	C				
 EL 741 AZ 293°	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		
 EL 741 AZ 293°	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	C C C	Y Y Y	N N N	AC AC AC	N						MK60M		
 EL 741 AZ 292°	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

PENETRATION DATA										VALVE DATA																			
DETAILS	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	VALVE STATUS								APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	AC	N	O				
 EL 741 AZ 292°	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	-				
X-96C 741 AZ 292°	47W600-89	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-				
 EL 741 AZ 291°	47W866-1 2-47W600-89	-	A	C	B	dP SENSOR (30)	SB	SNSR	-	-	-	-	-	-	-	O	O	O	-	-	-	N	A	N	-	12			

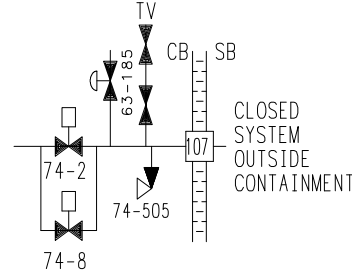
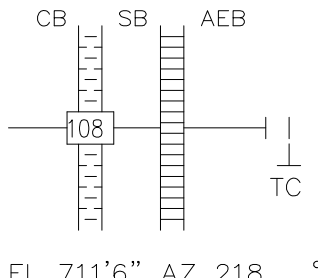
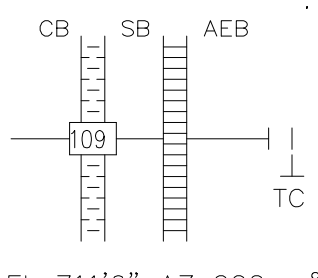
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

PENETRATION DATA									VALVE DATA																		
DETAILS	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	VALVE STATUS								NOTES	
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION			
	2-47W600-89	-	A	C	B	dP SENSOR (30)	SB	SNSR	-	-	-	-	-	-	O	O	O	-	-	-	N	A	N	-		12	
	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	C C	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	C C	Y Y	N N	AC AC	E	MK-54		15

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																												
PENETRATION DATA														VALVE DATA														
DETAILS	DWG NUMBER	GEN DES CRITERION				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	NOTES
		PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	POS IND IN MCR																ESF	ESF	ESF	ESF				
X-101 EL 723'6" AZ 288°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			
 EL 728' AZ 236 °	2-47W600-89	-	A	C	B	dP SENSOR (30)	SB	SNSR	-	-	-	-	-	-	O	O	O	-	-	-	N	A	E	-	12			
X-103 EL 723'6" AZ 287°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			

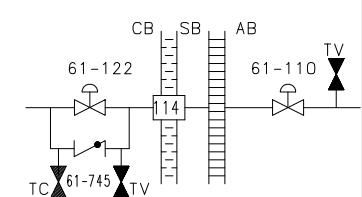
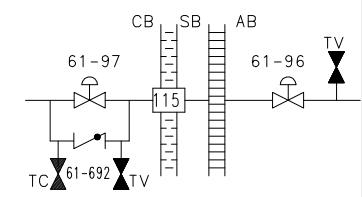
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PENETRATION DATA														VALVE DATA														
DETAILS	DWG NUMBER	GEN DES CRITERION				SYSTEM NUMBER AND PENETRATION DESCRIPTION	VALVE LOCATION	VALVE NUMBER	ESF POWER TRAIN	VALVE TYPE	ACTUATOR	PRI ACT MODE	SEC ACT MODE	ISOLATION SIGNAL	STROKE TIME	NORMAL	SHUTDOWN	POST-ACCIDENT	POWER FAILURE	ILRT	VALVE STATUS				APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
		PROCESS FLUID	FLUID STATE	POSS LEAK PATHS	POS IND IN MCR																A	ES	IS	ES				
X-104 EL 728 AZ 237°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			
X-105 EL 722'-6" AZ 288°	47W625-15	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			
X-106 EL 727' AZ 236°	47W625-15	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			

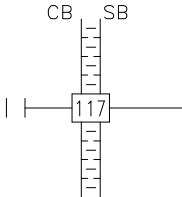
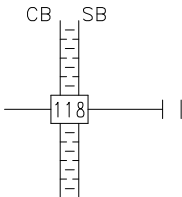
WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1

PENETRATION DATA										VALVE DATA																			
DETAILS	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	VALVE STATUS								APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES
																		POST-ACCIDENT	POWER FAILURE	ILRT	POS IND IN MCR	ESF	O	Y	N				
 EL 717'11.5" AZ 300°30'	47W810-1 47W432-2	55	W	H	BD	RHR SUPPLY TO PUMPS (74, 63)	CB CB CB CB	2 8 505 185	B A - A	GA GA RV GL	MO MO - AO	RM RM - RM	LM LM - -	- - - PA	- - - 10.0	C C C V	V V V C	V V V C	AI AI - C	O C C C	Y Y N Y	N N N N	- - - -	E	MK38				
 EL 711'6" AZ 218°	47W435-18 -22	-	A	C	AB E	MAINT PORT	AB	-	-	BL	M	LM	-	-	-	C	V	C	-	C	N	N	AB	N	AS108				
 EL 711'6" AZ 222°	47W435-18 -22	-	A	C	AB E	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																													
PENETRATION DATA														VALVE DATA															
DETAILS	DWG NUMBER	VALVE STATUS				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	NOTES
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

PENETRATION DATA										VALVE DATA																				
DETAILS	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	VALVE STATUS						APP J TEST	ESSENTIAL/NON-ESS	SHIELD BLDG PENETRATION	NOTES	
																				POS IN D	ESF	APP J	ESF	APP J						
X-113 EL 740 AZ 216°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
 EL 775 AZ 300°	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 V	C C -	O O O	Y Y N	Y Y Y	C C C	N		MK110		8		
 EL 771'6" az 300°	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 V	C C -	O O O	Y Y N	Y Y Y	C C C	N		MK111		8		

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																													
PENETRATION DATA														VALVE DATA															
DETAILS	DWG NUMBER	VALVE STATUS				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	NOTES
X-116 EL 760 AZ 300°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	MK7		
 EL 758 AZ 300°	47W301-1	-	A	C	AB	MAINT PORT	CB	-	-	BL	M	LM	-	-	-	C	V	C	-	C	N	N	AB	N	MK8				
 EL 708'6" AZ 209°	72-4334-318	-	W	C	AB C	LAYUP WATER TREATMENT (41) AND ANNULUS FLOOD MODE DRAIN	SB	-	-	BL	M	LM	-	-	-	C	O	C	-	O	N	N	AB	N	MK18		27		

WATTS BAR NUCLEAR PLANT CONTAINMENT PENETRATIONS AND BARRIERS-TABLE 6.2.4-1																											
PENETRATION DATA														VALVE DATA													
DETAILS	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	NOTES
																					7	7					
X-119 EL 844'5" AZ 90°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-		
X-120 EL 844'5" AZ 270°	48W406	-	-	-	-	SPARE	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	A	-	-			