



Fire Area 3 - Bus 1D Switchgear				
Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	UCSMB204	UCSMB204	-	manual start of SWS pumps not modeled in PSAR2
	UCSMB205	UCSMB205	-	manual start of SWS pumps not modeled in PSAR2
	ZCNMB34610	ZCNMB34610	R-CEPO-MC-34R106	
	ZCNMB3463	ZCNMB3463	R-CEPO-MC-34R105	
	ZCNMB3468	ZCNMB3468	R-CEPO-MC-34R10	
	ZSEMT34-6	ZSEMT34-6	R-CEPO-MC-34R106	
EB-22	IST-348	PB2MKMCC22	P-B2MK-EB-22	
EC-181	DFUMKW002A	DFUMKW002A	D-FUMK-W002-1	
	GHSMB0501A	GHSMB0501A	-	No credit for manual closure of MSIVs
	GKVMA0508	GKVMA0508	M-KVMB-SV-0508	
	GKVMA0514	GKVMA0514	M-KVMB-SV-0514	
	GKVMB0502	GKVMB0502	M-KVMB-SV-0502	
	GKVMB0513	GKVMB0513	M-KVMB-SV-0513	
EC-187	ABIOPASCA	ABIOPASCA	A-BIPO-LS-0751A	
	ABIOPASCB	ABIOPASCB	A-BIPO-LS-0751B	
	ABIOPASCC	ABIOPASCC	A-BIPO-LS-0751C	
	ABIOPASCD	ABIOPASCD	A-BIPO-LS-0751D	
	ABIOPBSCA	ABIOPBSCA	A-BIPO-LS-0752A	
	ABIOPBSCB	ABIOPBSCB	A-BIPO-LS-0752B	
	ABIOPBSCC	ABIOPBSCC	A-BIPO-LS-0752C	
	ABIOPBSCD	ABIOPBSCD	A-BIPO-LS-0752D	
	ATLMT0751A	ATLMT0751A	A-TLMT-LT-0751A	
	ATLMT0751B	ATLMT0751B	A-TLMT-LT-0751B	
	ATLMT0751C	ATLMT0751C	A-TLMT-LT-0751C	
	ATLMT0751D	ATLMT0751D	A-TLMT-LT-0751D	
	ATLMT0752A	ATLMT0752A	A-TLMT-LT-0752A	
	ATLMT0752B	ATLMT0752B	A-TLMT-LT-0752B	
	ATLMT0752C	ATLMT0752C	A-TLMT-LT-0752C	
	ATLMT0752D	ATLMT0752D	A-TLMT-LT-0752D	
	IST-166	ZCEPO0751C	M-PCMT-PIC-0751C	
	IST-167	ZCEPO0751B	M-PCMT-PIC-0751B	
	IST-168	ZCEPO0751A	M-PCMT-PIC-0751A	
	IST-169	ZCEPO0751D	M-PCMT-PIC-0751D	
	IST-170	ZCEPO0752C	M-PCMT-PIC-0752C	
	IST-171	ZCEPO0752B	M-PCMT-PIC-0752B	
	IST-172	ZCEPO0752A	M-PCMT-PIC-0752A	
	IST-173	ZCEPO0752D	M-PCMT-PIC-0752D	
	IST-18	AKVMA0522B	A-KVMB-SV-0522B	
	IST-19	ACNMC62-2A	A-REMD-62-2P8A	
	IST-20	AMLMACHA	A-CEPO-AFAS-MODA	
	IST-21	ACNMD1C2-6	A-REMB-62-1P8C	
	IST-32	AREMB22P8B	A-REMB-62-2P8B	
EJ-1005	A38	AKVMA0522G	A-KVMA-SV-0522G	



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Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	AHSMB0522B	AHSMB0522B	A-HSMB-HS-0522B	
	DFUMKW001A	DFUMKW001A	D-FUMK-W001-1	
	DFUMKW006D	DFUMKW006D	D-FUMK-W006-1	
	GHSMB0510A	GHSMB0510A	-	No credit for manual closure of MSIVs
	GKVMB0505A	GKVMB0505A	M-KVMB-SV-0505A	
	GKVMB0505B	GKVMB0505B	M-KVMB-SV-0505B	
	IST-15	AAVMA0521	-	SGB no longer supplies steam to TDAPW
	IST-18	AKVMA0522B	A-KVMB-SV-0522B	
	IST-19	ACNMC62-2A	A-REMD-62-2P8A	
	IST-198	GKVMA0507B	M-KVMB-SV-0507B	
	IST-199	GKVMA0507A	M-KVMB-SV-0507A	
	IST-20	AMLMACHA	A-CEPO-AFAS-MODA	
	IST-203	GTPMT0510	B-TPMT-PT-0510	
	IST-21	ACNMD1C2-6	A-REMB-62-1P8C	
	IST-32	AREMB22P8B	A-REMB-62-2P8B	
	IST-6	ACNMDSX741	A-REMD-PSX-0741	
EJ-1006	IST-1	ACNMD23P8C	A-REMD-62-3P8C	
	IST-18	AKVMA0522B	A-KVMB-SV-0522B	
	IST-21	ACNMD1C2-6	A-REMB-62-1P8C	
	IST-32	AREMB22P8B	A-REMB-62-2P8B	
EJ-1051	IST-19	ACNMC62-2A	A-REMD-62-2P8A	
	IST-20	AMLMACHA	A-CEPO-AFAS-MODA	
	IST-30	AFSMB0727A	A-FSMA-FS-0727A	
	IST-31	AFSMB0749A	A-FSMA-FS-0749A	
	IST-40	APSMD0741A	A-PSMD-PS-0741A	
	IST-41	APSMD0741B	A-PSMD-PS-0741B	
	IST-42	APSMD741DD	A-PSMD-PS-0741DD	
	IST-43	PC1MCY1014	P-C1MC-EY-10-14	
EJ-1052	A197	APSMD0762A	A-TPMT-PT-0762A	
	A199	APSMD0762B	A-TPMT-PT-0762B	
	A201	APSMD0762C	A-TPMT-PT-0762C	
	IST-1	ACNMD23P8C	A-REMD-62-3P8C	
	IST-32	AREMB22P8B	A-REMB-62-2P8B	
	IST-46	AFSMB0737	A-FSMA-FS-0737	
	IST-47	AFSMB0736	A-FSMA-FS-0736	
EJ-9401	DFUDK1203A	DFUDK1203A	P-CBMA-152-203	
	IST-137	PC1MCY2003	P-C1MC-EY-20-03	
	IST-138	SCNMBSISX2	R-REMB-SIS-X2	
	IST-139	SCNMBSISX4	R-REMB-SIS-X4	
	IST-149	SCNMASIS8	R-REMB-SIS-8	
	IST-161	PCNMB213AB	P-CBMB-152-213	
	IST-162	DFUDK1213A	P-CBMB-152-213	
	IST-163	DCBDC72238	D-CBMC-72-236	
	IST-21	ACNMD1C2-6	A-REMB-62-1P8C	



Fire Area 3 - Bus 1D Switchgear

Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	IST-494	PCBMBB-202	P-CBMB-152-202	
	IST-496	DFUDK1202A	D-FUMK-A1202-1	
	IST-497	DCBDC72403	D-CBMC-72-403	
	PCBMAB-203	PCBMAB-203	P-CBMA-152-203	
	PREMB1272	PREMB1272	P-REMA-127-1	
	PREMB272X1	PREMB272X1	P-REMB-127-2-X1	
	PREMB272X2	PREMB272X2	P-REMB-127-2-X2	
	SCNMBSISX6	SCNMBSISX6	R-REMB-SIS-X6	
	SPBMB1-2	SPBMB1-2	-	manual initiation of sis relays not modeled in PSAR2
	SREMBSIS2	SREMBSIS2	R-REMB-SIS-2	
	SREMBSIS6	SREMBSIS6	R-REMB-SIS-6	
	SREMBSIS8	SREMBSIS8	R-REMB-SIS-8	
	SREMBSISX6	SREMBSISX6	R-REMB-SIS-X6	
	SREMBSISX8	SREMBSISX8	R-REMB-SIS-X8	
	ZCNMB34610	ZCNMB34610	R-CEPO-MC-34R106	
	ZCNMB3463	ZCNMB3463	R-CEPO-MC-34R105	
	ZCNMB3468	ZCNMB3468	R-CEPO-MC-34R106	
	ZSEMT34-6	ZSEMT34-6	R-CEPO-MC-34R106	



Fire Area 4 - Bus 1C Switchgear Area/ Cabinet Exposure fire	BE/IST (Fire IPEEE) A197	Orig BE	New BE (PSAR2) A-TPMT-PT-0762A	Comment
	A199	APSM0762B	A-TPMT-PT-0762B	
	A201	APSM0762C	A-TPMT-PT-0762C	
	A38	AKVMA0522G	A-KVMA-SV-0522G	
	ABIOPASCA	ABIOPASCA	A-BIPO-LS-0751A	
	ABIOPASCB	ABIOPASCB	A-BIPO-LS-0751B	
	ABIOPASCC	ABIOPASCC	A-BIPO-LS-0751C	
	ABIOPBSCA	ABIOPBSCA	A-BIPO-LS-0752A	
	ABIOPBSCB	ABIOPBSCB	A-BIPO-LS-0752B	
	ABIOPBSCC	ABIOPBSCC	A-BIPO-LS-0752C	
	AHSMB0522B	AHSMB0522B	A-HSMB-HS-0522B	
	ATLMT0751A	ATLMT0751A	A-TLMT-LT-0751A	
	ATLMT0751B	ATLMT0751B	A-TLMT-LT-0751B	
	ATLMT0751C	ATLMT0751C	A-TLMT-LT-0751C	
	ATLMT0752A	ATLMT0752A	A-TLMT-LT-0752A	
	ATLMT0752B	ATLMT0752B	A-TLMT-LT-0752B	
	ATLMT0752C	ATLMT0752C	A-TLMT-LT-0752C	
	C200	CANMT0917	-	Isolation of CCW leaks not modeled
	C517	CPSMB0918	C-PSMB-PS-0918	
	CCSMB2084	CCSMB2084	-	manual start of CCW pumps not modeled in PSAR2
	CHP46	ZPSMT81A	R-PSMT-PS-1801A	
	CHP49	ZPSMT84A	R-PSMT-PS-1804A	
	CHP50	ZPSMT83A	R-PSMT-PS-1803A	
	CHSMB0910	CHSMB0910	-	Isolation of loss of CCW inside containment not modeled in PSAR2
	CHSMB0911	CHSMB0911	-	Isolation of loss of CCW inside containment not modeled in PSAR2
	CHSMB0940	CHSMB0940	-	Isolation of CCW to containment not modeled in PSAR2
	CREMBEX5P4	CREMBEX5P4	R-REMB-5P-4	
	DC6	DCBMC72112	P-CBMA-152-106	
	DFUDK1302A	DFUDK1302A	-	backfeed power not modeled in PSAR2.
	DFUMK1206A	DFUMK1206A	D-FUMK-A1206-1	
	DFUMKS09	DFUMKS09	D-FUMK-S09-1	
	DFUMKS10	DFUMKS10	D-FUMK-S10-1	
	DFUMKS13A	DFUMKS13A	D-FUMK-S13-2	
	DFUMKS14A	DFUMKS14A	D-FUMK-S14-2	
	DFUMKW001A	DFUMKW001A	D-FUMK-W001-1	
	DFUMKW002A	DFUMKW002A	D-FUMK-W002-1	
	DFUMKW006D	DFUMKW006D	D-FUMK-W006-1	
	G113B	GCNMA386A8	-	This relay must energize to cause ADVs to open (the TBV solenoids must spuriously energize to open valve)
	G322B	GCNMA386A3	-	This relay must energize to cause ADVs to



Fire Area 4 - Bus 1C Switchgear

Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	G332B	GCNMA386A5	-	open This relay must energize to cause ADVs to open
	GCNMBHPX1L	GCNMBHPX1L	S-AVMA-CV-3002	
	GEPMT0511	GEPMT0511	B-EPMT-EP-0511	
	GHSMB0501A	GHSMB0501A	-	No credit for manual closure of MSIVs
	GHSMB0510A	GHSMB0510A	-	No credit for manual closure of MSIVs
	GKVMA0508	GKVMA0508	M-KVMB-SV-0508	
	GKVMA0514	GKVMA0514	M-KVMB-SV-0514	
	GKVMB0502	GKVMB0502	M-KVMB-SV-0502	
	GKVMB0505A	GKVMB0505A	M-KVMB-SV-0505A	
	GKVMB0505B	GKVMB0505B	M-KVMB-SV-0505B	
	GKVMB0513	GKVMB0513	M-KVMB-SV-0513	
	GPCMT0511	GPCMT0511	B-PCMT-PIC-0511	
	GREMB5P8	GREMB5P8	R-REMB-5P-8	
	GSCMT0511	GSCMT0511	B-CEPO-PM-0511	
	ICNMAK24	ICNMAK24	I-CMME-C-2B	
	ICNMBK21	ICNMBK21	I-CMME-C-2B	
	ICNMBK22	ICNMBK22	I-CMME-C-2B	
	IFUMKF3	IFUMKF3	I-CMME-C-2B	
	IREMBK22	IREMBK22	I-CMME-C-2B	
	IREMBK24	IREMBK24	I-CMME-C-2B	
	IST-1	ACNMD23P8C	A-REMD-62-3P8C	
	IST-100	ICMME2C	I-CMME-C-2C	
	IST-100	ICMME2C	I-CMME-C-2C	
	IST-101	ICMMTC2C	I-CMME-C-2C	
	IST-101	ICMMTC2C	I-CMME-C-2C	
	IST-102	ICMME2A	I-CMME-C-2A	
	IST-102	ICMME2A	I-CMME-C-2A	
	IST-103	ICNMAK22	I-CMME-C-2C	
	IST-104	ICSMB1207	I-C2MB-52-1207	
	IST-104	ICSMB1207	I-C2MB-52-1207	
	IST-105	ICNMBCR4	I-REMB-CR-4	
	IST-105	ICNMBCR4	I-REMB-CR-4	
	IST-106	ICNMCK23	I-CMME-C-2B	
	IST-107	ICNMBK23	I-CMME-C-2B	
	IST-109	ICMMTC2A	I-CMME-C-2A	
	IST-109	ICMMTC2A	I-CMME-C-2A	
	IST-11	FAVMC0729	-	Hotwell reject to CST not credited in PSAR2
	IST-137	PC1MCY2003	P-C1MC-EY-20-03	
	IST-138	SCNMBSISX2	R-REMB-SIS-X2	
	IST-139	SCNMBSISX4	R-REMB-SIS-X4	
	IST-143	SREMBX161	G-REMB-42-161	
	IST-149	SCNMASIS8	R-REMB-SIS-8	
	IST-15	AAVMA0521	-	SGB no longer supplies steam to TDAFW



Fire Area 4 - Bus 1C Switchgear

Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	IST-15	AAVMA0521	-	SGB no longer supplies steam to TDAFW
	IST-152	ZPSMA821	R-PSMA-PS1802SW1	
	IST-153	ZPSMA841	R-PSMA-PS1804SW1	
	IST-156	ZPSMA811	R-PSMA-PS1801SW1	
	IST-157	ZPSMA831	R-PSMA-PS1803SW1	
	IST-161	PCNMB213AB	P-CBMB-152-213	
	IST-163	DCBDC72238	D-CBMC-72-236	
	IST-166	ZCEPO0751C	M-PCMT-PIC-0751C	
	IST-167	ZCEPO0751B	M-PCMT-PIC-0751B	
	IST-168	ZCEPO0751A	M-PCMT-PIC-0751A	
	IST-170	ZCEPO0752C	M-PCMT-PIC-0752C	
	IST-171	ZCEPO0752B	M-PCMT-PIC-0752B	
	IST-172	ZCEPO0752A	M-PCMT-PIC-0752A	
	IST-174	XAVMA2008	-	T81 makeup to CST no longer modeled
	IST-176	XAVMA2010	A-AVMA-CV-2010	
	IST-18	AKVMA0522B	A-KVMB-SV-0522B	SGB no longer supplies steam to TDAFW SGB no longer supplies steam to TDAFW
	IST-18	AKVMA0522B	A-KVMB-SV-0522B	
	IST-180	MAEMTHOGGR	M-AEMT-C-4	
	IST-183	GMVMA0510	M-HSMB-0510C	
	IST-184	GHSMB0510C	M-HSMB-0510C	
	IST-187	GMVMA0501	-	
	IST-188	GHSMB0501C	-	
	IST-190	DCBDC72104	D-CBMC-72-104	
	IST-191	DCBDC72207	D-CBMC-72-207	
	IST-191	DCBDC72207	D-CBMC-72-207	
	IST-191	DCBDC72207	D-CBMC-72-207	
	IST-192	DCBMC72119	D-CBMC-72-119	
	IST-198	GKVMA0507B	M-KVMB-SV-0507B	
	IST-199	GKVMA0507A	M-KVMB-SV-0507A	
	IST-203	GTPMT0510	B-TPMT-PT-0510	
	IST-203	GTPMT0510	B-TPMT-PT-0510	
	IST-21	ACNMD1C2-6	A-REMB-62-1P8C	
	IST-228	GAVMA0511	B-AVMA-CV-0511	
	IST-252	FCSMC105	M-CSMB-252-105CS	
	IST-253	FCSMB205	M-CBMB-252-205	
	IST-257	DCBDC72101	D-CBMC-72-101	
	IST-257	DCBDC72101	D-CBMC-72-101	
	IST-259	DCBDC72201	D-CBMC-72-201	
	IST-259	DCBDC72201	D-CBMC-72-201	
	IST-259	DCBDC72201	D-CBMC-72-201	
	IST-273	BMVMA2169	G-MVMA-MO-2169	
	IST-274	BCVMA2138	G-PMME-P-56A	
	IST-275	SCSMB127C1	G-CSMB-42-127CS1	
	IST-276	SCSMB187C1	G-CSMB-42-187CS1	



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Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	IST-277	42-2425/CS	G-CSMB-42-287CS	
	IST-277	42-2425/CS	G-CSMB-42-287CS	
	IST-277	42-2425/CS	G-CSMB-42-287CS	
	IST-278	BMVMA2140	G-MVMA-MO-2140	
	IST-279	BCVMA2139	G-PMME-P-56B	
	IST-280	SCSMB227C1	G-CSMB-42-227CS1	
	IST-281	BMVMA2170	G-MVMA-MO-2170	
	IST-283	PCBMCC-131	-	ESF room cooling no longer modeled
	IST-284	PCBMCC-211	-	ESF room cooling no longer modeled
	IST-285	VTSFC1850	-	ESF room cooling no longer modeled
	IST-286	VTSFC1851	-	ESF room cooling no longer modeled
	IST-288	PCBMCC-133	-	ESF room cooling no longer modeled
	IST-289	PCBMCC-221	-	ESF room cooling no longer modeled
	IST-290	VTSFC1857	-	ESF room cooling no longer modeled
	IST-291	VTSFC1858	-	ESF room cooling no longer modeled
	IST-295	PCBMCC-251	L-C2MC-52-251	
	IST-296	PCBMCC-147	L-C2MC-52-147	
	IST-297	PCBMCC-247	L-C2MC-52-247	
	IST-30	AFSMB0727A	A-FSMA-FS-0727A	
	IST-301	DFUMKS17A	D-FUMK-S17-1	
	IST-301	DFUMKS17A	D-FUMK-S17-1	
	IST-305	PCBMCB-206	L-C2MB-152-206	
	IST-306	SAVMA3029	Z-AVMA-CV-3029	
	IST-308	HPVMD3030B	Q-PVMD-PCV-3030B	
	IST-309	SMVMA3199	L-MVMA-MO-3199	
	IST-31	AFSMB0749A	A-FSMA-FS-0749A	
	IST-310	SMVMA3190	L-MVMA-MO-3190	
	IST-311	SCNMBX147	L-REMB-42X-147	
	IST-312	SCNMBX247	L-REMB-42X-247	
	IST-313	SCNMBX251	L-REMB-42X-251	
	IST-314	PCBMCC-167	L-C2MC-52-167	
	IST-314	PCBMCC-167	L-C2MC-52-167	
	IST-318	SHCMT3025A	L-HCMT-HIC-3025A	
	IST-32	AREMB22P8B	A-REMB-62-2P8B	
	IST-328	PCBMCC-141	L-C2MC-52-141	
	IST-329	SCNMBX141	L-REMB-42X-141	
	IST-330	PBSMTMCC24	P-B2MK-EB-24	
	IST-331	PBSMTMCC23	P-B2MK-EB-23	
	IST-335	GCNMA5P8	R-REMB-5P-8	
	IST-339	GCNMB5P8	R-REMB-5P-8	
	IST-345	PB2MKMCC23	P-B2MK-EB-23	
	IST-345	PB2MKMCC23	P-B2MK-EB-23	
	IST-347	HFLMK3037	-	Flow path not modeled in PSAR2



Fire Area 4 - Bus 1C Switchgear

Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	IST-348	PB2MKMCC22	P-B2MK-EB-22	
	IST-348	PB2MKMCC22	P-B2MK-EB-22	
	IST-350	HFLMK3018	-	Flow path not modeled in PSAR2
	IST-351	PCBMCC-137	H-C2MC-52-137	
	IST-352	PCBMCC-197	H-C2MC-52-197	
	IST-353	PCBMCC-157	H-C2MC-52-157	
	IST-354	PCBMCC-151	H-C2MC-52-151	
	IST-355	PCBMCC-261	H-C2MC-52-261	
	IST-356	PCBMCC-257	H-C2MC-52-257	
	IST-357	PCBMCC-237	H-C2MC-52-237	
	IST-358	PCBMCC-241	H-C2MC-52-241	
	IST-362	HFLMK3071	I-FLMK-F-321	
	IST-363	HFLMK3070	I-FLMK-F-319	
	IST-366	PCBMB1305	F-C2MC-52-1305	
	IST-369	QCXMT1305	F-C2MC-P-9ALOCAL	
	IST-371	QCNMBPS2	F-PSMB-PS-1310	
	IST-374	QCNMBP41PS	F-PSMB-PS-5350	
	IST-376	DCBMC72109	D-CBMC-72-109	
	IST-376	DCBMC72109	D-CBMC-72-109	
	IST-391	DFUMKS55B	D-FUMK-S55-2	
	IST-392	PCBMCC5221	H-REMT-3072IC	
	IST-395	PCBMCC1205	G-C2MC-52-1205	
	IST-396	SC2MCC-161	G-C2MC-52-161	
	IST-396	SC2MCC-161	G-C2MC-52-161	
	IST-397	SCNMA0101	G-C2MC-52-1206	
	IST-398	DFUMKB1105	D-FUMK-B1105-1	
	IST-399	PCBMC52207	G-C2MC-52-207	
	IST-399	PCBMC52207	G-C2MC-52-207	
	IST-399	PCBMC52207	G-C2MC-52-207	
	IST-400	DFUMK72205	D-FUMK-B1205-1	
	IST-401	PCBMB1206	G-C2MB-52-1206	
	IST-402	PC2MA1105C	G-C2MC-52-1105C	
	IST-402	PC2MA1105C	G-C2MC-52-1105C	
	IST-404	SCNMA0101	D-FUMK-B1206-1	
	IST-405	PCBMB1105	G-C2MB-52-1105	
	IST-46	AFSMB0737	A-FSMA-FS-0737	
	IST-47	AFSMB0736	A-FSMA-FS-0736	
	IST-500	DFUDK1303A	D-FUMK-A1303-1	
	IST-501	PCBMBB-302	-	backfeed power not modeled in PSAR2.
	IST-502	PCBMAB-302	P-CBMA-152-302	
	IST-519	PCNMD52402	P-CBMA-252-401	
	IST-54	CCSMD2082	C-CSMD-152-208CS	
	IST-57	CAVMA0918	-	Makeup to CCW not modeled



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Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	IST-57	CAVMA0918	-	Makeup to CCW not modeled
	IST-57	CAVMA0918	-	Makeup to CCW not modeled
	IST-57	CAVMA0918	-	Makeup to CCW not modeled
	IST-60	CAVMB0910	-	Isolation of CCW leaks inside containment not modeled in PSAR2
	IST-65	CCVMA0943	C-CVMA-CK-CC943	
	IST-66	CAVMB0911	-	Isolation of CCW leaks inside containment not modeled in PSAR2
	IST-67	CAVMB0940	-	containment CCW isolation not modeled in PSAR2
	IST-68	DFUMKS027A	-	Isolation of CCW leaks inside containment not modeled in PSAR2
	IST-69	UKVMA0801	-	Compressors no longer require SW cooling
	IST-70	UKVMA0803	-	Compressors no longer require SW cooling
	IST-76	PCBMCB-205	P-CBMC-152-205	
	IST-77	DFUMKA1205	D-FUMK-A1205-1	
	IST-82	SCNMA16-3	-	CV-1359 sis test contacts not modeled in PSAR2
	IST-82	SCNMA16-3	-	CV-1359 sis test contacts not modeled in PSAR2
	IST-98	DFUMKB1207	D-FUMK-B1207-1	
	IST-98	DFUMKB1207	D-FUMK-B1207-1	
	IST-99	DFUMKB1106	D-FUMK-B1106-1	
	IST-99	DFUMKB1106	D-FUMK-B1106-1	
	IST-99	DFUMKB1106	D-FUMK-B1106-1	
	ISWFCS3	ISWFCS3	-	Failure of logic to unload compressor and prevent RV actuation not modeled in PSAR2
	P252B	PCNMB303CS	-	Manual trip of CB-152-302 not modeled in PSAR2
	PBS1G-08	PCNMB1GCS	-	No manual actuation of 252-302 modeled in PSAR2
	PC2MA1206	PC2MA1206	-	Alternate power source for charging pumps no longer modeled in PSAR2
	PCBMBB-206	PCBMBB-206	L-C2MB-152-206	
	PCBMBC1103	PCBMBC1103	P-CBMB-52-1103	
	PCBMBC1201	PCBMBC1201	P-C2MB-52-1201	
	PFUMKS04	PFUMKS04	P-FUMK-S04-1	
	PREMB5P8	PREMB5P8	R-REMB-5P-8	
	PREMB8612	PREMB8612	-	Circuitry for 152-202 failing to trip not modeled in PSAR2
	PREMB8612X	PREMB8612X	-	Circuitry for 152-106 failing to trip not modeled in PSAR2
	QCNMB5TR1C	QCNMB5TR1C	F-PSMB-PS-1310	
	S42161MAN	SCSMB161CS	G-CSMB-42-161CS1	
	S55A-H	SCSMB1205	G-CSMB-52-1205CS	
	S55B-I	SCSMB1206	G-CSMB-52-1206CS	
	S55C-I	SCSMB1105	G-CSMB-52-1105CS	
	SCBA19A	SCSMB42191	G-CSMB-42-191CS	
	SCNMA43206	SCNMA43206	-	blocking LPSI trip on RAS not modeled in PSAR2
	SCNMBSISX6	SCNMBSISX6	R-REMB-SIS-X6	



Fire Area 4 - Bus 1C Switchgear

Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	SCNMBX0327	SCNMBX0327	Z-REMA-LSX-0327	
	SCNMBX0328	SCNMBX0328	Z-REMA-LSX-0328	
	SCNMBX0329	SCNMBX0329	Z-REMA-LSX-0329	
	SCNMBX0330	SCNMBX0330	Z-REMA-LSX-0330	
	SCNMBY0327	SCNMBY0327	Z-REMA-LSY-0327	
	SCNMBY0328	SCNMBY0328	Z-REMA-LSY-0328	
	SCNMBY0329	SCNMBY0329	Z-REMA-LSY-0329	
	SCNMBY0330	SCNMBY0330	Z-REMA-LSY-0330	
	SCSMA52206	SCSMA52206	-	blocking LPSI trip on RAS not modeled in PSAR2
	SCSMB206	SCSMB206	L-HSMB-HS-206	
	SCSMB207C1	SCSMB207C1	G-CSMB-42-207CS1	
	SCSMB207C2	SCSMB207C2	G-CSMB-42-207CS1	
	SH117	SCSMB1571	H-CSMB-42-157CS1	
	SH135	SCSMB2371	H-CSMB-42-237CS1	
	SH157	SCSMB1511	H-CSMB-42-151CS1	
	SH175	SCSMB2411	H-CSMB-42-241CS1	
	SH194	SHSMB3037A	-	Flow path not modeled in PSAR2
	SH207	SHSMB3018A	-	Flow path not modeled in PSAR2
	SH25	SCSMB1371	H-CSMB-42-137CS1	
	SH49	SCSMB2611	H-CSMB-42-261CS1	
	SH77	SCSMB1971	H-CSMB-42-197CS1	
	SH95	SCSMB2571	H-CSMB-42-257CS1	
	SHSMB3018A	SHSMB3018A	-	Flow path not modeled in PSAR2
	SHSMB3018B	SHSMB3018B	-	Flow path not modeled in PSAR2
	SHSMB3025B	SHSMB3025B	L-HSMB-HS-3025B	
	SHSMB3059A	SHSMB3059A	-	Failure to close failure mode not modeled in PSAR2
	SHSMB3059B	SHSMB3059B	-	Failure to close failure mode not modeled in PSAR2
	SKVMA3018	SKVMA3018	-	Flow path not modeled in PSAR2
	SKVMB3029A	SKVMB3029A	Z-KVMB-SV-3029A	
	SKVMB3030A	SKVMB3030A	Z-KVMB-SV-3030A	
	SKVMB3059	SKVMB3059	-	Failure to close failure mode not modeled in PSAR2
	SL54	SCSMB1411	L-HSMB-HS-141-1	
	SL64	SCSMB1471	L-HSMB-HS-147-1	
	SL74	SCSMB2471	L-REMB-42-247	
	SL84	SCSMB2511	L-REMB-42-251	
	SLSMA0327	SLSMA0327	Z-LSMA-LS-0327	
	SLSMA0328	SLSMA0328	Z-LSMA-LS-0328	
	SLSMA0329	SLSMA0329	Z-LSMA-LS-0329	
	SLSMA0330	SLSMA0330	Z-LSMA-LS-0330	
	SPBMB1-2	SPBMB1-2	-	manual initiation of sis relays not modeled in PSAR2
	SPCMT102A	SPCMT102A	P-DCPO-PS-0102A	



Fire Area 4 - Bus 1C Switchgear				
Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	SPCMT102C	SPCMT102C	P-DCPO-PS-0102C	
	SPMME67A	SPMME67A	L-PMME-P-67A	
	SREMAX0327	SREMAX0327	Z-REMA-LSX-0327	
	SREMAX0328	SREMAX0328	Z-REMA-LSX-0328	
	SREMAX0329	SREMAX0329	Z-REMA-LSX-0329	
	SREMAX0330	SREMAX0330	Z-REMA-LSX-0330	
	SREMAX0327	SREMAX0327	Z-REMA-LSY-0327	
	SREMAX0328	SREMAX0328	Z-REMA-LSY-0328	
	SREMAX0329	SREMAX0329	Z-REMA-LSY-0329	
	SREMAX0330	SREMAX0330	Z-REMA-LSY-0330	
	SREMB127-O	SREMB127-O	G-REMB-42-127	
	SREMBR-191	SREMBR-191	-	auto start of P-56B no longer modeled in PSAR2
	SREMBR-287	SREMBR-287	-	auto start of P-56A no longer modeled in PSAR2
	SREMBISIS2	SREMBISIS2	R-REMB-SIS-2	
	SREMBISIS6	SREMBISIS6	R-REMB-SIS-6	
	SREMBISIS8	SREMBISIS8	R-REMB-SIS-8	
	SREMBISISX6	SREMBISISX6	R-REMB-SIS-X6	
	SREMBISISX8	SREMBISISX8	R-REMB-SIS-X8	
	SSD30	SLMMB24395	L-REMB-42-2439	
	SSD31	SQSMB2439	L-REMB-42-2439	
	SSD40	SLMMB23395	L-REMB-42-2339	
	SSD41	SQSMB2339	L-REMB-42-2339	
	SU11	SHSMB3029A	-	Manual operation of CV-3029 not in PSAR2
	SU28	SHSMB3030A	-	Manual operation of CV-3029 not in PSAR2
	UCSMB205	UCSMB205	-	manual start of SWS pumps not modeled in PSAR2
	V22	VCSMB131	-	ESF room cooling no longer modeled
	V25	VCSMB211	-	ESF room cooling no longer modeled
	V48	VCSMB133	-	ESF room cooling no longer modeled
	V51	VCSMB221	-	ESF room cooling no longer modeled
	ZCNMB34610	ZCNMB34610	R-CEPO-MC-34R106	
	ZCNMB3463	ZCNMB3463	R-CEPO-MC-34R105	
	ZCNMB3468	ZCNMB3468	R-CEPO-MC-34R106	
	ZPSMB81A1	ZPSMB81A1	R-PSMB-PS-1801A1	
	ZPSMB81A2	ZPSMB81A2	R-PSMB-PS-1801A2	
	ZPSMB83A1	ZPSMB83A1	R-PSMB-PS-1803A1	
	ZPSMB83A2	ZPSMB83A2	R-PSMB-PS-1803A2	
	ZPSMB84A1	ZPSMB84A1	R-PSMB-PS-1804A1	
	ZPSMB84A2	ZPSMB84A2	R-PSMB-PS-1804A2	
	ZSEMT34-6	ZSEMT34-6	R-CEPO-MC-34R106	
EA-11	CCSMB1094	CCSMB1094	-	manual start of CCW pumps not modeled in PSAR2
	CCSMB1164	CCSMB1164	-	manual start of CCW pumps not modeled in PSAR2



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Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	DFUDK1105A	DFUDK1105A	D-FUMK-B1105-1	
	DFUDK1106A	DFUDK1106A	D-FUMK-B1106-1	
	IST-140	PC1MCY3003	P-C1MC-EY-30-03	
	IST-141	SCNMBSISX1	R-REMB-SIS-X1	
	IST-142	SCNMBSISX3	R-REMB-SIS-X3	
	IST-146	SCNMASIS5	R-REMB-SIS-5	
	IST-158	PCNMB107AB	-	shutdown sequencer not modeled in PSAR2
	IST-158	PCNMB107AB	-	shutdown sequencer not modeled in PSAR2
	IST-159	DFUDK1107A	D-FUMK-A1107-1	
	IST-159	DFUDK1107A	D-FUMK-A1107-1	
	IST-159	DFUDK1107A	D-FUMK-A1107-1	
	IST-160	DCBDC72136	D-CBMC-72-136	
	IST-160	DCBDC72136	D-CBMC-72-136	
	IST-160	DCBDC72136	D-CBMC-72-136	
	IST-19	ACNMC62-2A	A-REMD-62-2P8A	
	IST-19	ACNMC62-2A	A-REMD-62-2P8A	
	IST-20	AMLMACHA	A-CEPO-AFAS-MODA	
	IST-257	DCBDC72101	D-CBMC-72-101	
	IST-300	DFUMK1111A	D-FUMK-A1111-1	
	IST-307	PCBMCB-111	L-C2MB-152-111	
	IST-337	DFUMK1114A	D-FUMK-A1114-1	
	IST-338	DFUMK1112A	D-FUMK-A1112-1	
	IST-340	PCNMC52112	S-REMB-144-112	
	IST-341	PCNMC52114	S-REMB-144-114	
	IST-346	DFUMK1113A	D-FUMK-A1113-1	
	IST-471	DCBDC72111	D-CBMC-72-111	
	IST-483	EDGME11	E-DGME-K-6A	
	IST-486	PCBMBB-106	P-CBMB-152-106	
	IST-490	DCBDC72308	D-CBMC-72-308	
	IST-490	DCBDC72308	D-CBMC-72-308	
	IST-491	PREMB1275	P-CBMB-152-106	
	IST-500	DFUDK1303A	D-FUMK-A1303-1	
	IST-509	EKVMA1470	E-KVMB-SV-1470	
	IST-53	CCSMD1092	C-CSMD-152-109CS	
	IST-55	CCSMD1162	C-CSMD-152-116CS	
	IST-6	ACNMDSX741	A-REMD-PSX-0741	
	IST-63	CCVMA0944	C-CVMA-CK-CC944	
	IST-75	DFUMKA1103	D-FUMK-A1103-1	
	IST-84	UCNMB44103	U-REMB-144-103	
	PB1MKBUS1C	PB1MKBUS1C	P-B1MK-EA-11	
	PCBMAB-105	PCBMAB-105	P-CBMA-152-105	
	PCBMAB-106	PCBMAB-106	P-CBMA-152-106	
	PCBMBB-111	PCBMBB-111	L-C2MB-152-111	
	PREMB1271	PREMB1271	P-REMA-127-1	



Fire Area 4 - Bus 1C Switchgear

Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	PREMB271X1	PREMB271X1	P-REMB-127-1-X1	
	PREMB271X2	PREMB271X2	P-REMB-127-1-X2	
	PREMB38311	PREMB38311	P-REMB-383-11	
	SCNMA43111	SCNMA43111	-	blocking LPSI trip on RAS not modeled in PSAR2
	SCNMBSISX5	SCNMBSISX5	R-REMB-SIS-X5	
	SCSMA52111	SCSMA52111	-	blocking LPSI trip on RAS not modeled in PSAR2
	SCSMB111	SCSMB111	L-HSMB-HS-111	
	SCSMB112	SCSMB112	S-CSMB-152-112CS	
	SCSMB114	SCSMB114	S-CSMB-152-114CS	
	SH314A	SCSMB113	H-CSMB-152-113CS	
	SPBMB1-1	SPBMB1-1	-	manual initiation of sis relays not modeled in PSAR2
	SPMME67B	SPMME67B	L-PMME-P-67B	
	SREMB SIS1	SREMB SIS1	R-REMB-SIS-1	
	SREMB SIS5	SREMB SIS5	R-REMB-SIS-5	
	SREMB SISX5	SREMB SISX5	R-REMB-SIS-X5	
	SREMB SISX7	SREMB SISX7	R-REMB-SIS-X7	
	UCSMB103	UCSMB103	-	manual start of SWS pumps not modeled in PSAR2
	UPSMB1318	UPSMB1318	U-PSMB-PS-1318	
	UPSMB1325	UPSMB1325	U-PSMB-PS-1325	
	ZCNMB34510	ZCNMB34510	R-CEPO-MC-34L105	
	ZCNMB3453	ZCNMB3453	R-CEPO-MC-34L105	
	ZCNMB3455	ZCNMB3455	R-CEPO-MC-34L106	
	ZCNMB3459	ZCNMB3459	R-CEPO-MC-34L105	
	ZSEMT34-5	ZSEMT34-5	R-CEPO-MC-34L105	
ED-11A	DCB7218MOD	DCBMC72018	D-CBMC-72-18	
	DFUDKD11A	DFUDKD11A	D-FUMK-D018-1	
	DFUMKD11A	DFUMKD11A	D-FUMK-D018-1	
	IST-490	DCBDC72308	D-CBMC-72-308	
EJ-9400	DFUDK1105A	DFUDK1105A	D-FUMK-B1105-1	
	DFUDK1106A	DFUDK1106A	D-FUMK-B1106-1	
	IST-159	DFUDK1107A	D-FUMK-A1107-1	
	IST-159	DFUDK1107A	D-FUMK-A1107-1	
	IST-160	DCBDC72136	D-CBMC-72-136	
	IST-257	DCBDC72101	D-CBMC-72-101	
	IST-471	DCBDC72111	D-CBMC-72-111	
	IST-486	PCBMBB-106	P-CBMB-152-106	
	IST-490	DCBDC72308	D-CBMC-72-308	
	IST-491	PREMB1275	P-CBMB-152-106	
	IST-500	DFUDK1303A	D-FUMK-A1303-1	
	PCBMAB-105	PCBMAB-105	P-CBMA-152-105	
	PCBMAB-106	PCBMAB-106	P-CBMA-152-106	



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Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	PREMB1271	PREMB1271	P-REMA-127-1	
	PREMB271X1	PREMB271X1	P-REMB-127-1-X1	
	PREMB271X2	PREMB271X2	P-REMB-127-1-X2	
	PREMB38311	PREMB38311	P-REMB-383-11	



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Area/ Cabinet Exposure Fire	BE/IST (Fire IPEEE) C517	Orig BE CPSMB0918	New BE (PSAR2) C-PSMB-PS-0918	Comment
	CCSMB1164	CCSMB1164	-	manual start of P52c not modeled in PSAR2
	CCSMB2084	CCSMB2084	-	manual start of P52c not modeled in PSAR2
	CHP46	ZPSMT81A	R-PSMT-PS-1801A	
	CHP50	ZPSMT83A	R-PSMT-PS-1803A	
	CHSMB0910	CHSMB0910	-	Isolation of loss of CCW inside containment not modeled in PSAR2
	CHSMB0911	CHSMB0911	-	Isolation of loss of CCW inside containment not modeled in PSAR2
	CHSMB0940	CHSMB0940	-	Isolation of loss of CCW inside containment not modeled in PSAR2
	CREMBEX5P4	CREMBEX5P4	R-REMB-5P-4	
	DFUMK1206A	DFUMK1206A	D-FUMK-A1206-1	
	DFUMKS09	DFUMKS09	D-FUMK-S09-1	
	DFUMKS10	DFUMKS10	D-FUMK-S10-1	
	DFUMKS13A	DFUMKS13A	D-FUMK-S13-2	
	DFUMKS14A	DFUMKS14A	D-FUMK-S14-2	
	GCNMBHPX1L	GCNMBHPX1L	S-AVMA-CV-3002	
	GREMB5P8	GREMB5P8	R-REMB-5P-8	
	HC6A-MST	HHSMB771	-	manual start of compressors not modeled in PSAR2
	HC6B-MST	HHSMB811	-	manual start of compressors not modeled in PSAR2
	IST-1	ACNMD23P8C	A-REMD-62-3P8C	
	IST-100	ICMME2C	I-CMME-C-2C	
	IST-101	ICMMTC2C	I-CMME-C-2C	
	IST-102	ICMME2A	I-CMME-C-2A	
	IST-104	ICSMB1207	I-C2MB-52-1207	
	IST-105	ICNMBCR4	I-REMB-CR-4	
	IST-109	ICMMTC2A	I-CMME-C-2A	
	IST-114	HADMTM9B	Q-ADMK-M-9B	
	IST-121	HADMTM9A	Q-ADMK-M-9A	
	IST-131	HPSMB0440	Q-PSMB-PS-0440	
	IST-133	HPSMB0442	Q-PSMB-PS-0442	
	IST-143	SREMBX161	G-REMB-42-161	
	IST-152	ZPSMA821	R-PSMA-PS1802SW1	
	IST-156	ZPSMA811	R-PSMA-PS1801SW1	
	IST-157	ZPSMA831	R-PSMA-PS1803SW1	
	IST-161	PCNMB213AB	P-CBMB-152-213	
	IST-163	DCBDC72238	D-CBMC-72-236	
	IST-180	MAEMTHOGGR	M-AEMT-C-4	
	IST-192	DCBMC72119	D-CBMC-72-119	
	IST-273	BMVMA2169	G-MVMA-MO-2169	
	IST-275	SCSMB127C1	G-CSMB-42-127CS1	
	IST-276	SCSMB187C1	G-CSMB-42-187CS1	



Fire Area 13A1 - Aux Building Corridor

Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	IST-277	42-2425/CS	G-CSMB-42-287CS	
	IST-278	BMVMA2140	G-MVMA-MO-2140	
	IST-280	SCSMB227C1	G-CSMB-42-227CS1	
	IST-281	BMVMA2170	G-MVMA-MO-2170	
	IST-283	PCBMCC-131	-	ESF room cooling no longer modeled
	IST-284	PCBMCC-211	-	ESF room cooling no longer modeled
	IST-285	VTSFC1850	-	ESF room cooling no longer modeled
	IST-286	VTSFC1851	-	ESF room cooling no longer modeled
	IST-288	PCBMCC-133	-	ESF room cooling no longer modeled
	IST-289	PCBMCC-221	-	ESF room cooling no longer modeled
	IST-290	VTSFC1857	-	ESF room cooling no longer modeled
	IST-291	VTSFC1858	-	ESF room cooling no longer modeled
	IST-295	PCBMCC-251	L-C2MC-52-251	
	IST-296	PCBMCC-147	L-C2MC-52-147	
	IST-297	PCBMCC-247	L-C2MC-52-247	
	IST-300	DFUMK1111A	D-FUMK-A1111-1	
	IST-301	DFUMKS17A	D-FUMK-S17-1	
	IST-305	PCBMCB-206	L-C2MB-152-206	
	IST-306	SAVMA3029	Z-AVMA-CV-3029	
	IST-307	PCBMCB-111	L-C2MB-152-111	
	IST-308	HPVMD3030B	Q-PVMD-PCV-3030B	
	IST-309	SMVMA3199	L-MVMA-MO-3199	
	IST-310	SMVMA3190	L-MVMA-MO-3190	
	IST-311	SCNMBX147	L-REMB-42X-147	
	IST-312	SCNMBX247	L-REMB-42X-247	
	IST-313	SCNMBX251	L-REMB-42X-251	
	IST-314	PCBMCC-167	L-C2MC-52-167	
	IST-318	SHCMT3025A	L-HCMT-HIC-3025A	
	IST-328	PCBMCC-141	L-C2MC-52-141	
	IST-329	SCNMBX141	L-REMB-42X-141	
	IST-330	PBSMTMCC24	P-B2MK-EB-24	
	IST-331	PBSMTMCC23	P-B2MK-EB-23	
	IST-335	GCNMA5P8	R-REMB-5P-8	
	IST-339	GCNMB5P8	R-REMB-5P-8	
	IST-345	PB2MKMCC23	P-B2MK-EB-23	
	IST-347	HFLMK3037	-	Flow path not modeled in PSAR2
	IST-348	PB2MKMCC22	P-B2MK-EB-22	
	IST-350	HFLMK3018	-	Flow path not modeled in PSAR2
	IST-351	PCBMCC-137	H-C2MC-52-137	
	IST-352	PCBMCC-197	H-C2MC-52-197	
	IST-353	PCBMCC-157	H-C2MC-52-157	
	IST-354	PCBMCC-151	H-C2MC-52-151	
	IST-355	PCBMCC-261	H-C2MC-52-261	



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Fire Area 13A1 - Aux Building Corridor

Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	IST-356	PCBMCC-257	H-C2MC-52-257	
	IST-357	PCBMCC-237	H-C2MC-52-237	
	IST-358	PCBMCC-241	H-C2MC-52-241	
	IST-362	HFLMK3071	I-FLMK-F-321	
	IST-363	HFLMK3070	I-FLMK-F-319	
	IST-391	DFUMKS55B	D-FUMK-S55-2	
	IST-392	PCBMCC5221	H-REMT-3072IC	
	IST-395	PCBMCC1205	G-C2MC-52-1205	
	IST-396	SC2MCC-161	G-C2MC-52-161	
	IST-397	SCNMA0101	G-C2MC-52-1206	
	IST-398	DFUMKB1105	D-FUMK-B1105-1	
	IST-399	PCBMC52207	G-C2MC-52-207	
	IST-400	DFUMK72205	D-FUMK-B1205-1	
	IST-401	PCBMB1206	G-C2MB-52-1206	
	IST-402	PC2MA1105C	G-C2MC-52-1105C	
	IST-404	SCNMBA0101	-	Auto start of P55B not modeled
	IST-405	PCBMBC1105	G-C2MB-52-1105	
	IST-46	AFSMB0737	A-FSMA-FS-0737	
	IST-54	CCSMD2082	C-CSMD-152-208CS	
	IST-55	CCSMD1162	C-CSMD-152-116CS	
	IST-57	CAVMA0918	-	Makeup to CCW not modeled
	IST-60	CAVMB0910	-	Isolation of CCW leaks inside containment not modeled in PSAR2
	IST-63	CCVMA0944	C-CVMA-CK-CC944	
	IST-65	CCVMA0943	C-CVMA-CK-CC943	
	IST-66	CAVMB0911	-	Isolation of CCW leaks inside containment not modeled in PSAR2
	IST-67	CAVMB0940	-	Isolation of CCW leaks inside containment not modeled in PSAR2
	IST-68	DFUMKS027A	-	Isolation of CCW leaks inside containment not modeled in PSAR2
	IST-69	UKVMA0801	-	Compressors no longer require SW cooling
	IST-70	UKVMA0803	-	Compressors no longer require SW cooling
	IST-74	PCBMCB-204	U-C2MC-152-204	
	IST-76	PCBMCB-205	P-CBMC-152-205	
	IST-77	DFUMKA1205	D-FUMK-A1205-1	
	IST-79	DFUMKA1204	D-FUMK-A1204-1	
	IST-82	SCNMA16-3	-	CV-1359 sis test contacts not modeled in PSAR2
	IST-98	DFUMKB1207	D-FUMK-B1207-1	
	IST-99	DFUMKB1106	D-FUMK-B1106-1	
	PC2MA1206	PC2MA1206	-	Alternate power source for charging pumps no longer modeled in PSAR2
	PCBMBB-111	PCBMBB-111	L-C2MB-152-111	
	PCBMBB-206	PCBMBB-206	L-C2MB-152-206	
	PCBMBC1103	PCBMBC1103	PCBMBC1103	



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Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	PCBMBC1201	PCBMBC1201	P-C2MB-52-1201	
	PFUMKS04	PFUMKS04	P-FUMK-S04-1	
	PREMB5P8	PREMB5P8	R-REMB-5P-8	
	S42161MAN	SCSMB161CS	G-CSMB-42-161CS1	
	S55A-H	SCSMB1205	G-CSMB-52-1205CS	
	S55B-I	SCSMB1206	G-CSMB-52-1206CS	
	S55C-I	SCSMB1105	G-CSMB-52-1105CS	
	SCNMA43111	SCNMA43111	-	blocking LPSI trip on RAS not modeled in PSAR2
	SCNMA43206	SCNMA43206	-	blocking LPSI trip on RAS not modeled in PSAR2
	SCNMBX0327	SCNMBX0327	Z-REMA-LSX-0327	
	SCNMBX0328	SCNMBX0328	Z-REMA-LSX-0328	
	SCNMBX0329	SCNMBX0329	Z-REMA-LSX-0329	
	SCNMBY0327	SCNMBY0327	Z-REMA-LSY-0327	
	SCNMBY0328	SCNMBY0328	Z-REMA-LSY-0328	
	SCNMBY0329	SCNMBY0329	Z-REMA-LSY-0329	
	SCSMA52111	SCSMA52111	-	blocking LPSI trip on RAS not modeled in PSAR2
	SCSMA52206	SCSMA52206	-	blocking LPSI trip on RAS not modeled in PSAR2
	SCSMB111	SCSMB111	L-HSMB-HS-111	
	SCSMB206	SCSMB206	L-HSMB-HS-206	
	SCSMB207C1	SCSMB207C1	G-CSMB-42-207CS1	
	SCSMB207C2	SCSMB207C2	G-CSMB-42-207CS1	
	SH117	SCSMB1571	H-CSMB-42-157CS1	
	SH135	SCSMB2371	H-CSMB-42-237CS1	
	SH157	SCSMB1511	H-CSMB-42-151CS1	
	SH175	SCSMB2411	H-CSMB-42-241CS1	
	SH194	SHSMB3037A	-	Flow path not modeled in PSAR2
	SH207	SHSMB3018A	-	Flow path not modeled in PSAR2
	SH25	SCSMB1371	H-CSMB-42-137CS1	
	SH49	SCSMB2611	H-CSMB-42-261CS1	
	SH77	SCSMB1971	H-CSMB-42-197CS1	
	SH95	SCSMB2571	H-CSMB-42-257CS1	
	SHSMB3018A	SHSMB3018A	-	Flow path not modeled in PSAR2
	SHSMB3018B	SHSMB3018B	-	Flow path not modeled in PSAR2
	SHSMB3025B	SHSMB3025B	L-HSMB-HS-3025B	
	SHSMB3059A	SHSMB3059A	-	Failure to close failure mode not modeled in PSAR2
	SHSMB3059B	SHSMB3059B	-	Failure to close failure mode not modeled in PSAR2
	SKVMA3018	SKVMA3018	-	Flow path not modeled in PSAR2
	SKVMB3029A	SKVMB3029A	Z-KVMB-SV-3029A	
	SKVMB3030A	SKVMB3030A	Z-KVMB-SV-3030A	
	SKVMB3059	SKVMB3059	-	Failure to close failure mode not modeled in PSAR2



Fire Area 13A1 - Aux Building Corridor

Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	SL54	SCSMB1411	L-HSMB-HS-141-1	
	SL64	SCSMB1471	L-HSMB-HS-147-1	
	SL74	SCSMB2471	L-REMB-42-247	
	SL84	SCSMB2511	L-REMB-42-251	
	SLSMA0327	SLSMA0327	Z-LSMA-LS-0327	
	SLSMA0328	SLSMA0328	Z-LSMA-LS-0328	
	SLSMA0329	SLSMA0329	Z-LSMA-LS-0329	
	SPMME67A	SPMME67A	L-PMME-P-67A	
	SPMME67B	SPMME67B	L-PMME-P-67B	
	SREMAX0327	SREMAX0327	Z-REMA-LSX-0327	
	SREMAX0328	SREMAX0328	Z-REMA-LSX-0328	
	SREMAX0329	SREMAX0329	Z-REMA-LSX-0329	
	SREMAY0327	SREMAY0327	Z-REMA-LSY-0327	
	SREMAY0328	SREMAY0328	Z-REMA-LSY-0328	
	SREMAY0329	SREMAY0329	Z-REMA-LSY-0329	
	SREMB127-O	SREMB127-O	G-REMB-42-127	
	SSD30	SLMMB24395	L-REMB-42-2439	
	SSD31	SQSMB2439	L-REMB-42-2439	
	SSD40	SLMMB23395	L-REMB-42-2339	
	SSD41	SQSMB2339	L-REMB-42-2339	
	SU11	SHSMB3029A	-	Manual operation of CV-3029 not in PSAR2
	SU28	SHSMB3030A	-	Manual operation of CV-3030 not in PSAR2
	UCSMB204	UCSMB204	-	manual start of SWS pumps not modeled in PSAR2
	UCSMB205	UCSMB205	-	manual start of SWS pumps not modeled in PSAR2
	V22	VCSMB131	-	ESF room cooling no longer modeled
	V25	VCSMB211	-	ESF room cooling no longer modeled
	V48	VCSMB133	-	ESF room cooling no longer modeled
	V51	VCSMB221	-	ESF room cooling no longer modeled
	ZPSMB81A1	ZPSMB81A1	R-PSMB-PS-1801A1	
	ZPSMB81A2	ZPSMB81A2	R-PSMB-PS-1801A2	
	ZPSMB83A1	ZPSMB83A1	R-PSMB-PS-1803A1	



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Fire Area 13A2 - Aux Building Corridor

Area/ Cabinet Exposure Fire	BE/IST (Fire IPEEE) CHSMB0910	Orig BE CHSMB0910	New BE (PSAR2) -	Comment
	CHSMB091ire1	CHSMB0911	-	Isolation of loss of CCW inside containment not modeled in PSAR2
	GCNMBHPX1L	GCNMBHPX1L	S-AVMA-CV-3002	Isolation of loss of CCW inside containment not modeled in PSAR2
	IST-273	BMVMA2169	G-MVMA-MO-2169	
	IST-274	BCVMA2138	G-PMME-P-56A	
	IST-275	SCSMB127C1	G-CSMB-42-127CS1	
	IST-276	SCSMB187C1	G-CSMB-42-187CS1	
	IST-277	42-2425/CS	G-CSMB-42-287CS	
	IST-279	BCVMA2139	G-PMME-P-56Bure	
	IST-281	BMVMA2170	G-MVMA-MO-2170	
	IST-301	DFUMKS17A	D-FUMK-S17-1	
	IST-318	SHCMT3025A	L-HCMT-HIC-3025A	
	IST-397	SCNMA0101	G-C2MC-52-1206	
	IST-398	DFUMKB1105	D-FUMK-B1105-1	
	IST-401	PCBMB1206	G-C2MB-52-1206	
	IST-402	PC2MA1105C	G-C2MC-52-1105C	
	IST-405	PCBMB1105	G-C2MB-52-1105	
	IST-60	CAVMB0910	-	Isolation of loss of CCW inside containment not modeled in PSAR2
	IST-66	CAVMB0911	-	Isolation of loss of CCW inside containment not modeled in PSAR2
	IST-68	DFUMKS027A	-	Isolation of loss of CCW inside containment not modeled in PSAR2
	IST-82	SCNMA16-3	-	CV-1359 sis test contacts not modeled in PSAR2
	PC2MA1206	PC2MA1206	-	Bus 11 is not an alternate power source for Bus 12 in PSAR2
	S55B-I	SCSMB1206	G-CSMB-52-1206CS	
	S55C-I	SCSMB1105	G-CSMB-52-1105CS	
	SCBA19A	SCSMB42191	G-CSMB-42-191CS	
	SHSMB3025B	SHSMB3025B	L-HSMB-HS-3025B	
	SREMB127-O	SREMB127-O	G-REMB-42-127	
	SREMBR-191	SREMBR-191	-	auto start of P-56B no longer modeled in PSAR2
	SREMBR-287	SREMBR-287	-	auto start of P-56A no longer modeled in PSAR2



Fire Area 23B - East Turbine Building

Area/ Cabinet Exposure Fire	BE/IST (Fire IPEEE) A38	Orig BE	New BE (PSAR2) A-KVMA-SV-0522G	Comment
	AHSMB0522B	AHSMB0522B	A-HSMB-HS-0522B	
	CHSMB0910	CHSMB0910	-	Isolation of loss of CCW inside containment not modeled in PSAR2
	CHSMB0911	CHSMB0911	-	Isolation of loss of CCW inside containment not modeled in PSAR2
	DC6	DCBMC72112	P-CBMA-152-106	
	DFUDK1302A	DFUDK1302A	-	Backfeed power to Bus 1C,D&E not modeled in PSAR2
	DFUMKW001A	DFUMKW001A	D-FUMK-W001-1	
	DFUMKW002A	DFUMKW002A	D-FUMK-W002-1	
	DFUMKW006D	DFUMKW006D	D-FUMK-W006-1	
	G113B	GCNMA386A8	-	This relay must energize to cause ADVs to open (the TBV solenoids must spuriously energize to open valve)
	G322B	GCNMA386A3	-	This relay must energize to cause ADVs to open
	G332B	GCNMA386A5	-	This relay must energize to cause ADVs to open
	GEPMT0511	GEPMT0511	B-EPMT-EP-0511	
	GHSMB0501A	GHSMB0501A	-	No credit for manual closure of MSIVs
	GHSMB0510A	GHSMB0510A	-	No credit for manual closure of MSIVs
	GKVMA0508	GKVMA0508	M-KVMB-SV-0508	
	GKVMA0514	GKVMA0514	M-KVMB-SV-0514	
	GKVMB0502	GKVMB0502	M-KVMB-SV-0502	
	GKVMB0505A	GKVMB0505A	M-KVMB-SV-0505A	
	GKVMB0505B	GKVMB0505B	M-KVMB-SV-0505B	
	GKVMB0513	GKVMB0513	M-KVMB-SV-0513	
	GPCMT0511	GPCMT0511	B-PCMT-PIC-0511	
	GSCMT0511	GSCMT0511	B-CEPO-PM-0511	
	I15A	IRVMB1200	I-RVMC-RV-1200	
	I15B	IRVMB1204	I-RVMC-RV-1204	
	I15C	IRVMB1202	I-RVMC-RV-1202	
	ICNMAK24	ICNMAK24	I-CMME-C-2B	
	ICNMBK21	ICNMBK21	I-CMME-C-2B	
	ICNMBK22	ICNMBK22	I-CMME-C-2B	
	IFUMKF3	IFUMKF3	I-CMME-C-2B	
	IREMBK22	IREMBK22	I-CMME-C-2B	
	IREMBK24	IREMBK24	I-CMME-C-2B	
	IST-100	ICMME2C	I-CMME-C-2C	
	IST-101	ICMTC2C	I-CMME-C-2C	
	IST-102	ICMME2A	I-CMME-C-2A	
	IST-103	ICNMAK22	I-CMME-C-2C	
	IST-104	ICSMB1207	I-C2MB-52-1207	
	IST-105	ICNMBCR4	I-REMB-CR-4	



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Fire Area 23B - East Turbine Building

Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	IST-106	ICNMCK23	I-CMME-C-2B	
	IST-107	ICNMBK23	I-CMME-C-2B	
	IST-109	ICMMTC2A	I-CMME-C-2A	
	IST-11	FAVMC0729	-	CST makeup from hotwell not modeled
	IST-117	HADMTM9C	Q-ADMK-M-9C	
	IST-134	PB2MKMCC4	P-B2MK-EB-04	
	IST-15	AAVMA0521	-	TDAFW pump no longer gets steam from SGB
	IST-17	AHSMB0102A	A-HSMB-HS-0102A	
	IST-174	XAVMA2008	-	T-81 no longer modeled as redundant to other CST makeup sources
	IST-175	PB2MKBUS91	P-B2MK-EB-91	
	IST-176	XAVMA2010	A-AVMA-CV-2010	
	IST-177	PBSMTL03	P-BSMK-EL-22	
	IST-179	MCNMB42615	M-REMB-52-615	
	IST-18	AKVMA0522B	A-KVMB-SV-0522B	
	IST-180	MAEMTHOGGR	M-AEMT-C-4	
	IST-183	GMVMA0510	M-HSMB-0510C	
	IST-184	GHSMB0510C	M-HSMB-0510C	
	IST-185	PB2MKMCC3	P-B2MK-EB-03	
	IST-187	GMVMA0501	-	SGB no longer supplies steam to TDAFW
	IST-188	GHSMB0501C	-	SGB no longer supplies steam to TDAFW
	IST-190	DCBDC72104	D-CBMC-72-104	
	IST-191	DCBDC72207	D-CBMC-72-207	
	IST-192	DCBMC72119	D-CBMC-72-119	
	IST-198	GKVMA0507B	M-KVMB-SV-0507B	
	IST-199	GKVMA0507A	M-KVMB-SV-0507A	
	IST-203	GTPMT0510	B-TPMT-PT-0510	
	IST-228	GAVMA0511	B-AVMA-CV-0511	
	IST-252	FCSMC105	M-CSMB-252-105CS	
	IST-253	FCSMB205	M-CBMB-252-205	
	IST-257	DCBDC72101	D-CBMC-72-101	
	IST-259	DCBDC72201	D-CBMC-72-201	
	IST-296	PCBMCC-147	L-C2MC-52-147	
	IST-30	AFSMB0727A	A-FSMA-FS-0727A	
	IST-31	AFSMB0749A	A-FSMA-FS-0749A	
	IST-311	SCNMBX147	L-REMB-42X-147	
	IST-314	PCBMCC-167	L-C2MC-52-167	
	IST-328	PCBMCC-141	L-C2MC-52-141	
	IST-329	SCNMBX141	L-REMB-42X-141	
	IST-345	PB2MKMCC23	P-B2MK-EB-23	
	IST-351	PCBMCC-137	H-C2MC-52-137	
	IST-352	PCBMCC-197	H-C2MC-52-197	
	IST-353	PCBMCC-157	H-C2MC-52-157	



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Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	IST-354	PCBMCC-151	H-C2MC-52-151	
	IST-366	PCBMBC1305	F-C2MC-52-1305	
	IST-369	QCXMTC1305	F-C2MC-P-9ALOCAL	
	IST-371	QCNMBPS2	F-PSMB-PS-1310	
	IST-374	QCNMBP41PS	F-PSMB-PS-5350	
	IST-40	APSM0741A	A-PSMD-PS-0741A	
	IST-403	PCBMB1206B	D-FUMK-B1206-1	
	IST-406	PCBMBC105B	D-FUMK-B1105-1	
	IST-41	APSM0741B	A-PSMD-PS-0741B	
	IST-42	APSM0741DD	A-PSMD-PS-0741DD	
	IST-43	PC1MCY1014	P-C1MC-EY-10-14	
	IST-491	PREMB1275	P-CBMD-152-106	
	IST-498	PREMB1276	P-CBMA-152-202	
	IST-500	DFUDK1303A	D-FUMK-A1303-1	
	IST-501	PCBMBB-302	-	backfeed power not modeled in PSAR2.
	IST-502	PCBMAB-302	P-CBMA-152-302	
	IST-503	PCBMCC2111	-	Battery room ventilation not needed in PSAR2
	IST-504	PCBMCC2411	-	Battery room ventilation not needed in PSAR2
	IST-516	PGNMTMAIN	-	Main xfrmr not modeled in PSAR2
	IST-519	PCNMD52402	P-CBMA-252-401	
	IST-57	CAVMA0918	-	Makeup to CCW not modeled
	IST-60	CAVMB0910	-	Isolation of CCW leaks inside containment not modeled in PSAR2
	IST-66	CAVMB0911	-	Isolation of CCW leaks inside containment not modeled in PSAR2
	IST-68	DFUMKS027A	-	Isolation of CCW leaks inside containment not modeled in PSAR2
	IST-69	UKVMA0801	-	Compressors no longer require SWS
	IST-70	UKVMA0803	-	Compressors no longer require SWS
	IST-98	DFUMKB1207	D-FUMK-B1207-1	
	IST-99	DFUMKB1106	D-FUMK-B1106-1	
	ISWFCS3	ISWFCS3	-	Failure of logic to unload compressor and prevent RV actuation not modeled in PSAR2
	P252B	PCNMB303CS	-	Manual trip of CB-152-302 not modeled in PSAR2
	PBS1F-08	PCNMB1FCS	-	No manual actuation of 252-302 modeled in PSAR2
	PBS1G-08	PCNMB1GCS	-	No manual actuation of 252-402 modeled in PSAR2
	PCSMBA-301	PCSMBA-301	P-CBMA-252-301	
	PREMB38311	PREMB38311	P-REMB-383-11	
	PREMB38312	PREMB38312	P-REMB-383-12	
	PREMB38323	PREMB38323	P-REMB-383-23	
	PREMB8612	PREMB8612	-	Circuitry for 152-202 failing to trip not modeled in PSAR2
	PREMB8612X	PREMB8612X	-	Circuitry for 152-106 failing to trip not modeled in PSAR2



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Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	QCNMB5TR1C	QCNMB5TR1C	F-PSMB-PS-1310	
	SH117	SCSMB1571	H-CSMB-42-157CS1	
	SH157	SCSMB1511	H-CSMB-42-151CS1	
	SH25	SCSMB1371	H-CSMB-42-137CS1	
	SH77	SCSMB1971	H-CSMB-42-197CS1	
	SL54	SCSMB1411	L-HSMB-HS-141-1	
	SL64	SCSMB1471	L-HSMB-HS-147-1	
	X32	XCNMB9631A	A-PBMC-PB-P936	
	X33	XHSMB8950A	A-HSMC-HS-8950A	



Fire Area 23D - West Turbine Building

Area/ Cabinet Exposure Fire	BE/IST (Fire IPEEE) A38	Orig BE AKVMA0522G	New BE (PSAR2) A-KVMA-SV-0522G	Comment
	AHSMB0522B DFUMKW001A DFUMKW006D G113B	AHSMB0522B DFUMKW001A DFUMKW006D GCNMA386A8	A-HSMB-HS-0522B D-FUMK-W001-1 D-FUMK-W006-1 -	This relay must energize to cause ADVs to open (the TBV solenoids must spuriously energize to open valve)
	G322B	GCNMA386A3	-	This relay must energize to cause ADVs to open
	G332B	GCNMA386A5	-	This relay must energize to cause ADVs to open
	GEPMT0511 GHSMB0510A GKVMB0505A GKVMB0505B GPCMT0511 GSCMT0511 IST-11	GEPMT0511 GHSMB0510A GKVMB0505A GKVMB0505B GPCMT0511 GSCMT0511 FAVMC0729	B-EPMT-EP-0511 - M-KVMB-SV-0505A M-KVMB-SV-0505B B-PCMT-PIC-0511 B-CEPO-PM-0511 -	No credit for manual closure of MSIVs
	IST-117 IST-14 IST-15	HADMTM9C AAVMA0522B AAVMA0521	Q-ADMK-M-9C A-AVMA-CV-0522B -	No longer considered a condensate flow diversion path
	IST-17 IST-174	AHSMB0102A XAVMA2008	A-HSMB-HS-0102A -	TDAFW pump no longer gets steam from SGB
	IST-175 IST-176 IST-179 IST-18 IST-180 IST-189 IST-190 IST-191 IST-196 IST-198 IST-199 IST-203 IST-228 IST-252 IST-253 IST-364 IST-366 IST-369 IST-371 IST-374 IST-40	PB2MKBUS91 XAVMA2010 MCNMB42615 AKVMA0522B MAEMTHOGGR IXVMD180CA DCBDC72104 DCBDC72207 FAVMA0730 GKVMA0507B GKVMA0507A GTPMT0510 GAVMA0511 FCSMC105 FCSMB205 PCBMB1306 PCBMB1305 QCXMT1305 QCNMBPS2 QCNMBP41PS APSM0741A	P-B2MK-EB-91 A-AVMA-CV-2010 M-REMB-52-615 A-KVMB-SV-0522B M-AEMT-C-4 I-XVMD-MV-CA180 D-CBMC-72-104 D-CBMC-72-207 M-AVMA-CV-0730 M-KVMB-SV-0507B M-KVMB-SV-0507A B-TPMT-PT-0510 B-AVMA-CV-0511 M-CSMB-252-105CS M-CBMB-252-205 U-PMME-P5 F-C2MC-52-1305 F-C2MC-P-9ALOCAL F-PSMB-PS-1310 F-PSMB-PS-5350 A-PSMD-PS-0741A	



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Fire Area 23D - West Turbine Building

Area/ Cabinet	BE/IST (Fire IPEEE)	Orig BE	New BE (PSAR2)	Comment
	IST-41	APSM0741B	A-PSMD-PS-0741B	
	IST-42	APSM0741DD	A-PSMD-PS-0741DD	
	IST-43	PC1MCY1014	P-C1MC-EY-10-14	
	IST-516	PGNMTMAIN	-	Main xfrmr not modeled in PSAR2
	PCBMB1306	PCBMB1306	U-PMME-P5	
	QCNMB5TR1C	QCNMB5TR1C	F-PSMB-PS-1310	
	X32	XCNMB9631A	A-PBMC-PB-P936	
	X33	XHSMB8950A	A-HSMC-HS-8950A	



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Table A5.1, Modifications Made to Reflect Fire IPEEE Logic

Gate	Description
A24-Fire	Local closure of P8C breaker
A47-Fire	Local closure of P8A breaker
A69A-Fire	Local opening of CV-0749
A89-Fire	Local opening of CV-0727
F39-Fire	Manual action to start fire pump 9A
F40-Fire	Manual action to start fire pump 9B
F52-Fire	Manual action to start fire pump P41
P106B4A-Fire	Local closure of fast transfer breaker 152-106
P202B4-Fire	Local closure of fast transfer breaker 152-202
U973-DGA-Fire	Local closure of breaker to P7B
UGT020-Fire	Alignment of warm water recirc pump (parallel to traveling screens)
H334A-Fire	Local operation of MO-3070



Table A5.2, Modifications Made to Logic to Assure Correct Modeling of Plant Response to Fire Initiators	
Gate	Description
The following logic adds a house event to reflect that fire initiating events do not cause conditions that would generate an automatic SIS	
NONSISINT-Fire	Add HSE-FA-INIT as a flag to indicate that a non-SIS fire initiating event has occurred
The following four changes are directed at preventing a dual SG blowdown from disabling all flow paths to the SGs even though AFW is still available	
AHDR1-1-Fire	Disable ESDE failing flow path through CV-0749
AHDR2-1-Fire	Disable ESDE failing flow path through CV-0727
AHDR3-1-Fire	Disable ESDE failing flow path through CV-0736A
AHDR4-1-Fire	Disable ESDE failing flow path through CV-0737A
The following change disables logic that assumes HPSI flow diversion will occur on hot short of MO-3072 (it appears the flow diversion will be back to the PCS)	
H079-Fire	Disable HPSI flow diversion through MO-3072



Table A5.3, Modifications to Logic to Allow Evaluation of MOV Functions not Currently in the Models (not used in this analysis)	
Gate	Description
GS02-Fire	Add charging to PCS flow path through MO-3072
LSDC45-Fire	Add CK-3240 as means of preventing flow downstream of MO-3198 to SIRWT
LSDC57-Fire	Add CK-3239 as means of preventing flow downstream of MO-3189 to SIRWT
XADVA-FTO-Fire	Alignment of hogger as means of preventing demands on SGA SRVs
XESDE-DA1-Fire	Addition of TBV & ADVs on SGB as means of blowing down SGA
XESDE-DA2-Fire	Isolation of SGA including MO-0510 FTRC
X1001-FIRE	Operator action to trip closed CV-0510 locally (without credit for this action, MO-0510 would not be important as SGA MSIV would be failed open for many Fire Areas - see Ref 2.1.8).



Table A5.4, Modifications to credit local operation of MOVs (not used in this analysis)

Gate	Description
G068-HSFire	Local operation of MO-2160
GCBA10-HSFire	Local operation of MO-2140
GS02-HSFire	Local operation of MO-3072
LLSDC-HSFire	Local operation of MO-3012
LLSDC56-HSFire	Local operation of MO-3010
LLSDC76-HSFire	Local operation of MO-3014
LLSDC86-HSFire	Local operation of MO-3008
LLSDC44-HSFire	Local operation of MO-3199
LLSDC46-HSFire	Local operation of MO-3198
LLSDC56-HSFire	Local operation of MO-3190
LLSDC57-HSFire	Local operation of MO-3189
XADVA-FTO7A-HSFire	Local operation of MO-0510
H111A1-Fire	Local operation of MO-3011
H151A1-Fire	Local operation of MO-3013
H19A1-Fire	Local operation of MO-3007
H801A1-Fire	Local operation of MO-3009
HH129A1-Fire	Local operation of MO-3064
HH169A1-Fire	Local operation of MO-3062
HH43A1-Fire	Local operation of MO-3068
HH89A1-Fire	Local operation of MO-3066



Table A5.5, Modifications Adding MOV Hot Short Failure Modes (not used in this analysis)

Gate	Description
G068B-HSFire	Hot short of MO-2160
GCBA10B-HSFire	Hot short of MO-2140
GS02B-HSFire	Hot short of MO-3072
LLSDC66B-HSFire	Hot short of MO-3012
LLSDC56B-HSFire	Hot short of MO-3010
LLSDC76B-HSFire	Hot short of MO-3014
LLSDC86B-HSFire	Hot short of MO-3008
LSDC46-HSFire	Hot short of MO-3199
LSDC50-HSFire	Hot short of MO-3198
LSDC58-HSFire	Hot short of MO-3190
LSDC62-HSFire	Hot short of MO-3189
XADVA-FT08-HSFire	Hot short of MO-0510
H110-HSFire	Hot short of MO-3011
H150-HSFire	Hot short of MO-3013
H18-HSFire	Hot short of MO-3007
H800-HSFire	Hot short of MO-3009
HH128-HSFire	Hot short of MO-3064
HH168-HSFire	Hot short of MO-3062
HH42-HSFire	Hot short of MO-3068
HH88-HSFire	Hot short of MO-3066
CNT-22-LOOP1A-HPSI-HSFIRE	Hot short of MO-3068 leading to ISLOCA
CNT-22-LOOP1B-HPSI-HSFIRE	Hot short of MO-3066 leading to ISLOCA
CNT-22-LOOP2A-HPSI-HSFIRE	Hot short of MO-3064 leading to ISLOCA
CNT-22-LOOP2B-HPSI-HSFIRE	Hot short of MO-3062 leading to ISLOCA
CNT-23-LOOP1A-HPSI-HSFIRE	Hot short of MO-3007 leading to ISLOCA
CNT-23-LOOP1B-HPSI-HSFIRE	Hot short of MO-3009 leading to ISLOCA
CNT-23-LOOP2A-HPSI-HSFIRE	Hot short of MO-3011 leading to ISLOCA
CNT-23-LOOP2B-HPSI-HSFIRE	Hot short of MO-3013 leading to ISLOCA
CNT-32-LOOP1A-LPSI-HSFIRE	Hot short of MO-3008 leading to ISLOCA
CNT-32-LOOP1B-LPSI-HSFIRE	Hot short of MO-3010 leading to ISLOCA
CNT-32-LOOP2A-LPSI-HSFIRE	Hot short of MO-3012 leading to ISLOCA
CNT-32-LOOP2B-LPSI-HSFIRE	Hot short of MO-3014 leading to ISLOCA



Gate	Description
FA1SUP	Fire Area 1 exposure fires anded with SUP
FA2SUP	Fire Area 2 exposure fires anded with SUP-AUTO
FA3SUP	Fire Area 3 exposure fires anded with SUP-AUTO
FA4SUP	Fire Area 4 exposure fires anded with SUP-AUTO

Note: These gates are used to distinguish logic differences when unsuppressed fires require manning of the hot shutdown panel.



Table A5.7, House Events Added to Fault Tree Models

House Event	Description
HS-MO-0510	Logic enabling MOV hot short failure mode (T)
HS-MO-2140	"
HS-MO-2160	"
HS-MO-3007	"
HS-MO-3008	"
HS-MO-3009	"
HS-MO-3010	"
HS-MO-3011	"
HS-MO-3012	"
HS-MO-3013	"
HS-MO-3014	"
HS-MO-3062	"
HS-MO-3064	"
HS-MO-3066	"
HS-MO-3068	"
HS-MO-3072	"
HS-MO-3189	"
HS-MO-3190	"
HS-MO-3198	"
HS-MO-3199	"
HSE-3072-FLOWDIV	Disables HPSI flow diversion thru MO-3072 (F)
HSE-AFW-FLOWDIV	Disables AFW flow diversion on SG blowdown (F)
HSE-FA-INIT	Indicates that a non-SIS fire initiator occurred (T)
HSE-ANYFIRE	Enables Fire IPEEE logic changes fall fire areas (T)
HSE-NOTANY	Enables Fire IPEEE logic changes all fire areas (F)
HSE-NOTFA1	Enables logic changes for FA1 (not used)
HSE-NOTFA13A	Enables logic changes for FA13A (not used)
HSE-NOTFA2	Enables logic changes for FA2 (not used)
HSE-NOTFA2-ED-10	Enables logic changes for FA2-ED-10 (not used)
HSE-NOTFA2-ED-20	Enables logic changes for FA2-ED-20 (not used)
HSE-NOTFA23	Enables logic changes for FA23E, S & W (not used)
HSE-NOTFA23ES	Enables logic changes for FA23E & S (not used)
HSE-NOTFA3	Enables logic changes for FA3 (not used)
HSE-NOTFA4	Enables logic changes for FA4 (not used)
HSE-NOTFACR	Enables logic changes for FA1 (not used)
IE-FA-1	Disables components for FA1 exposure fire (T)s
IE-FA-1-EC-01L	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-01R	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-02L	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-02R	Disables components for FA1 cabinet fire (T)



Table A5.7, House Events Added to Fault Tree Models

House Event	Description
IE-FA-1-EC-03L	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-03R	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-04L	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-04R	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-08L	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-08R	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-106	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-11L	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-11R	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-126	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-12L	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-12R	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-13L	Disables components for FA1 cabinet fire (T)
IE-FA-1-EC-13R	Disables components for FA1 cabinet fire (T)
IE-FA-2	Disables components for FA1 exposure fire (T)
IE-FA-2-EB-01	Disables components for FA2 cabinet fire (T)
IE-FA-2-EB-02	Disables components for FA2 cabinet fire (T)
IE-FA-2-EB-11	Disables components for FA2 cabinet fire (T)
IE-FA-2-EB-12	Disables components for FA2 cabinet fire (T)
IE-FA-2-EB-21	Disables components for FA2 cabinet fire (T)
IE-FA-2-EB-23	Disables components for FA2 cabinet fire (T)
IE-FA-2-EB-24	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-06	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-07	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-08	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-09	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-10	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-11	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-15	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-16	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-17	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-18	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-20	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-21	Disables components for FA2 cabinet fire (T)
IE-FA-2-ED-576	Disables components for FA2 cabinet fire (T)
IE-FA-2-EJ-14A	Disables components for FA2 cabinet fire (T)
IE-FA-2-EJ-542	Disables components for FA2 cabinet fire (T)
IE-FA-2-EJ-543	Disables components for FA2 cabinet fire (T)
IE-FA-2-EJ-575	Disables components for FA2 cabinet fire (T)
IE-FA-2-EJ-576	Disables components for FA2 cabinet fire (T)
IE-FA-2-EY-01	Disables components for FA2 cabinet fire (T)
IE-FA-2-EY-10	Disables components for FA2 cabinet fire (T)



Table A5.7, House Events Added to Fault Tree Models

House Event	Description
IE-FA-2-EY-20	Disables components for FA2 cabinet fire (T)
IE-FA-2-EY-30	Disables components for FA2 cabinet fire (T)
IE-FA-2-EY-40	Disables components for FA2 cabinet fire (T)
IE-FA-2-EY-50	Disables components for FA2 cabinet fire (T)
IE-FA-2-FZ2	Disables components for FA2 cabinet fire (T)
IE-FA-3	Disables components for FA3 exposure fire (T)
IE-FA-3-EA-12	Disables components for FA3 cabinet fire (T)
IE-FA-3-EB-22	Disables components for FA3 cabinet fire (T)
IE-FA-3-EC-181	Disables components for FA3 cabinet fire (T)
IE-FA-3-EC-187	Disables components for FA3 cabinet fire (T)
IE-FA-3-EJ-1005	Disables components for FA3 cabinet fire (T)
IE-FA-3-EJ-1006	Disables components for FA3 cabinet fire (T)
IE-FA-3-EJ-1051	Disables components for FA3 cabinet fire (T)
IE-FA-3-EJ-1052	Disables components for FA3 cabinet fire (T)
IE-FA-3-EJ-9401	Disables components for FA3 cabinet fire (T)
IE-FA-4	Disables components for FA4 exposure fire (T)
IE-FA-4-EA-11	Disables components for FA4 cabinet fire (T)
IE-FA-4-ED-11A	Disables components for FA4 cabinet fire (T)
IE-FA-4-EJ-9400	Disables components for FA4 cabinet fire (T)
IE-FA-13-13A1	Disables components for FA13A1 exposure fire (T)
IE-FA-13-13A2	Disables components for FA13A2 exposure fire (T)
IE-FA-23-23E	Disables components for FA23E exposure fire (T)
IE-FA-23-23S	Disables components for FA23S exposure fire (T)
IE-FA-23-23W	Disables components for FA23W exposure fire (T)



Table A5.8, Fire Initiating Events Added to Event Tree Logic

Initiating Event	Frequency	Reference
FA-1	2.43E-03	Fire IPEEE (Ref 2.1.3)
FA-1-EC-01L	9.50E-03	"
FA-1-EC-01R	9.50E-03	"
FA-1-EC-02L	9.50E-03	"
FA-1-EC-02R	9.50E-03	"
FA-1-EC-03L	9.50E-03	"
FA-1-EC-03R	9.50E-03	"
FA-1-EC-04L	9.50E-03	"
FA-1-EC-04R	9.50E-03	"
FA-1-EC-08L	9.50E-03	"
FA-1-EC-08R	9.50E-03	"
FA-1-EC-106	9.50E-03	"
FA-1-EC-11L	9.50E-03	"
FA-1-EC-11R	9.50E-03	"
FA-1-EC-126	9.50E-03	"
FA-1-EC-12L	9.50E-03	"
FA-1-EC-12R	9.50E-03	"
FA-1-EC-13L	9.50E-03	"
FA-1-EC-13R	9.50E-03	"
FA-2	3.10E-03	"
FA-2-EB-01	3.20E-03	"
FA-2-EB-02	3.20E-03	"
FA-2-EB-11	3.20E-03	"
FA-2-EB-12	3.20E-03	"
FA-2-EB-21	3.20E-03	"
FA-2-EB-23	3.20E-03	"
FA-2-EB-24	3.20E-03	"
FA-2-ED-06	3.20E-03	"
FA-2-ED-07	3.20E-03	"
FA-2-ED-08	3.20E-03	"
FA-2-ED-09	3.20E-03	"
FA-2-ED-10	3.20E-03	"
FA-2-ED-11	3.20E-03	"
FA-2-ED-15	3.20E-03	"
FA-2-ED-16	3.20E-03	"
FA-2-ED-17	3.20E-03	"
FA-2-ED-18	3.20E-03	"
FA-2-ED-20	3.20E-03	"
FA-2-ED-21	3.20E-03	"
FA-2-EJ-14A	3.20E-03	"



Table A5.8, Fire Initiating Events Added to Event Tree Logic

Initiating Event	Frequency	Reference
FA-2-EJ-542	3.20E-03	"
FA-2-EJ-543	3.20E-03	"
FA-2-EJ-575	3.20E-03	"
FA-2-EJ-576	3.20E-03	"
FA-2-EY-01	3.20E-03	"
FA-2-EY-10	3.20E-03	"
FA-2-EY-20	3.20E-03	"
FA-2-EY-30	3.20E-03	"
FA-2-EY-40	3.20E-03	"
FA-2-EY-50	3.20E-03	"
FA-3	9.81E-04	"
FA-3-EA-12	3.75E-03	"
FA-3-EB-22	3.75E-03	"
FA-3-EC-181	3.75E-03	"
FA-3-EC-187	3.75E-03	"
FA-3-EJ-1005	3.75E-03	"
FA-3-EJ-1006	3.75E-03	"
FA-3-EJ-1051	3.75E-03	"
FA-3-EJ-1052	3.75E-03	"
FA-3-EJ-9401	3.75E-03	"
FA-4	4.15E-04	"
FA-4-EA-11	3.75E-03	"
FA-4-ED-11A	3.75E-03	"
FA-4-EJ-9400	3.75E-03	"
FA-13-13A1	1.99E-03	"
FA-13-13A2	5.37E-03	"
FA-23-23E	2.94E-02	"
FA-23-23S	6.42E-02	"
FA-23-23W	1.55E-03	"



Table A5.9: Random Failures Added to Fault Trees

Event	Prob	Reference	Description
B-AVMB-CV-0511	3.64E-03	PSAR2.BE ADV FTRC	Spurious operation of turbine bypass valve
H-CVMC-CK-ES3101HS	5.85E-04	PSAR2.BE Ck Valve FTRC	HPSI injection line check valve FTRC (ISLOCA model)
H-CVMC-CK-ES3103HS	5.85E-04	PSAR2.BE Ck Valve FTRC	HPSI injection line check valve FTRC (ISLOCA model)
H-CVMC-CK-ES3116HS	5.85E-04	PSAR2.BE Ck Valve FTRC	HPSI injection line check valve FTRC (ISLOCA model)
H-CVMC-CK-ES3131HS	5.85E-04	PSAR2.BE Ck Valve FTRC	HPSI injection line check valve FTRC (ISLOCA model)
H-CVMC-CK-ES3146HS	5.85E-04	PSAR2.BE Ck Valve FTRC	HPSI injection line check valve FTRC (ISLOCA model)
H-MVMA-MO-3072	4.18E-03	PSAR2.BE CVCS MOV FTO	CVCS injection to primary system
H-MVMD-MO-3072	2.96E-05	PSAR2.BE CVCS MOV FTRO	CVCS injection to primary system
H-REMT-3072IC	0	NA (used to assign fire areas that will fail the MOV I&C)	I&C failure mode for MO-3072 inj to primary system
L-CVMC-CK-ES3101HS	5.85E-04	PSAR2.BE Ck Valve FTRC	LPSI injection line check valve FTRC (ISLOCA model)
L-CVMC-CK-ES3116HS	5.85E-04	PSAR2.BE Ck Valve FTRC	LPSI injection line check valve FTRC (ISLOCA model)
L-CVMC-CK-ES3131HS	5.85E-04	PSAR2.BE Ck Valve FTRC	LPSI injection line check valve FTRC (ISLOCA model)
L-CVMC-CK-ES3146HS	5.85E-04	PSAR2.BE Ck Valve FTRC	LPSI injection line check valve FTRC (ISLOCA model)
M-FUMK-B389	2.21E-05	PSAR2.BE Fuse failure	MO-0510 control failure
M-HSMB-0510C	6.71E-05	PSAR2.BE Hand switch FTC	MO-0510 remote hand switch failure
M-LMMC-0510A	2.33E-05	PSAR2.BE Limit switch FTRC	MO-0510 control failure
M-MVMA-MO-0510	4.18E-03	PSAR2.BE MOV FTO	MO-0510 FTO to supply steam to hogger
M-MVMC-MO-0510	8.12E-04	PSAR2.BE MOV FTRC	MO-0510 FTRC preventing SGA from depressurizing
M-MVMD-MO-0510	2.96E-05	PSAR2.BE MOV FTRO	MO-0510 FTRO to supply steam to hogger
M-QSMC-0510	2.33E-05	PSAR2.BE Torque sw FTRC	MO-0510 control failure
M-REMB-389O	2.41E-04	PSAR2.BE Relay fail to energize	MO-0510 control failure
M-REMC-389O	2.40E-05	PSAR2.BE Relay FTRE	MO-0510 control failure
M-REMD-389C	2.40E-05	PSAR2.BE Relay FTRDE	MO-0510 control failure
M-REMD-4938	2.40E-05	PSAR2.BE Relay FTRDE	MO-0510 control failure
M-TRMT-B389	3.72E-05	PSAR2.BE Trans fails to function	MO-0510 control failure
P-B2MK-EB-03	1.20E-05	PSAR2.BE Bus fails to function	MCC3 fails to function (power to MO-0510)
P-CBMC-152-110	1.0	NA (conservatively assigned value of 1)	Breaker to Bus 13
P-CBMC-52-389	1.49E-05	PSAR2.BE Breaker FTRC	MO-0510 control failure
U-PMME-P5	1.0	NA (conservatively assigned value of 1)	Warm water recirc pump FTR (bypasses plugged traveling screens)



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Table A5.10, Random Failures Changed for the Purpose of Fire PSA Quantification

Event	Prob	Description
M-PMCC-P-2AB-MG	T	Used as a house event to disable Feedwater, condensate and main condenser