

# ARC-FLASH RESULTS TABLE (IEEE-1584-2002)

Bus Name	Protective Device Name	Bus kV	Bus Bolted Fault (kA)	Bus Arcing Fault (kA)	Prot Dev Bolted Fault (kA)	Prot Dev Arcing Fault (kA)	Trip/Delay Time (sec)	Equip Type	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm <sup>2</sup> )	Required Protective FR Clothing Category
BCP-007	DPN-A8E-9	0.48	9.59	6.33	9.59	6.33	0.008	PNL	25	5.5	18	0.17	Category 0
BENSHAW-MOT.CPN.	BENSHAW-MAIN	0.48	8.27	5.57	8.27	5.57	0.017	PNL	25	7.7	18	0.29	Category 0
BENSHAW-MOT.CPN. (BENSHAW-MAIN LineSide)	BUS-E15E-FU	0.48	8.27	5.57	8.27	4.74	0.036	PNL	25	11	18	0.54	Category 0 (*N3)
BENSHAW-SW.	BUS-E15E-FU	0.48	8.38	4.79	8.38	4.79	0.035	PNL	25	11	18	0.52	Category 0 (*N3)
BENSHAW-SW. (BENSHAW-FU LineSide)	BUS-E15E-FU	0.48	8.38	4.79	8.38	4.79	0.035	PNL	25	11	18	0.52	Category 0 (*N3)
<b>BUS-0168</b>	<b>PD-0122</b>	<b>0.48</b>	<b>11.76</b>	<b>6.4</b>	<b>11.76</b>	<b>6.4</b>	<b>1.014</b>	<b>PNL</b>	<b>25</b>	<b>102.4</b>	<b>18</b>	<b>20.70</b>	<b>Category 3 (*N3)</b>
BUS-0168 (PD-0122 LineSide)	MAIN SWG. SEC-B	0.48	11.76	6.40	11.73	7.51	2	PNL	25	172	18	49	Dangerous! (*N9)
BUS-B.W.	DPN#1-1	0.48	7.79	4.50	7.79	4.50	0.056	PNL	25	14	18	0.78	Category 0 (*N3)
BUS-C.E.	DPN#1-5	0.48	9.89	6.49	9.89	6.49	0.032	PNL	25	13	18	0.67	Category 0
BUS-C.W.	DPN#1-2	0.48	6.70	3.96	6.70	3.96	2	PNL	25	113	18	24	Category 3 (*N3) (*N9)
BUS-D.E.8-18	DPN#1-6	0.48	8.92	5.94	8.92	5.94	2	PNL	25	148	18	38	Category 4 (*N9)
BUS-D.E1-8	DPN#1-4	0.48	9.28	5.23	9.28	5.23	0.04	PNL	25	13	18	0.67	Category 0 (*N3)
BUS-D.W.	DPN#1-7	0.48	5.92	4.19	5.92	4.19	2	PNL	25	117	18	26	Category 4 (*N9)
BUS-E.E.	DPN#2-6	0.48	8.83	5.01	8.83	5.01	0.043	PNL	25	13	18	0.67	Category 0 (*N3)
BUS-E.W.	DPN#2-1	0.48	5.43	3.89	5.43	3.89	2	PNL	25	112	18	24	Category 3 (*N9)
BUS-F.E.	DPN#2-5	0.48	8.16	4.68	8.16	4.68	0.049	PNL	25	13	18	0.71	Category 0 (*N3)
BUS-F.W.	DPN#2-3	0.48	5.29	3.81	5.29	3.81	2	PNL	25	110	18	23	Category 3 (*N9)
BUS-G.E.	DPN#2-2	0.48	5.64	4.02	5.64	4.02	2	PNL	25	114	18	25	Category 3 (*N9)
BUS-G-WEST	DPN#3-1	0.48	5.30	3.81	5.30	3.81	2	PNL	25	110	18	23	Category 3 (*N9)
BUS-H-EAST	DPN#3-2	0.48	9.08	6.04	9.08	6.04	0.025	PNL	25	10	18	0.48	Category 0
BUS-H-WEST	DPN#3-3	0.48	5.76	4.09	5.76	4.09	2	PNL	25	115	18	25	Category 4 (*N9)
BUS-JE	DPN#4-1	0.48	8.44	5.67	8.44	5.67	2	PNL	25	143	18	36	Category 4 (*N9)
BUS-J-WEST (BUS DUCT END)	DPN#3-4	0.48	5.41	3.88	5.41	3.88	2	PNL	25	111	18	24	Category 3 (*N9)
BUS-K-EAST	DPN#4-2	0.48	10.27	5.70	10.27	5.70	2	PNL	25	143	18	36	Category 4 (*N3) (*N9)
BUS-K-WEST	DPN#4-3	0.48	6.03	4.25	6.03	4.25	2	PNL	25	118	18	26	Category 4 (*N9)
BUS-LE	DPN#4-4	0.48	9.04	5.11	9.04	5.11	0.042	PNL	25	13	18	0.67	Category 0 (*N3)
CAP.-C14W	BUS-C14W-FU	0.48	6.60	4.60	6.60	4.60	0.008	PNL	25	4.4	18	0.12	Category 0
CAP.-G12W	BUS-G12W FU	0.48	5.23	3.77	5.23	3.77	0.008	PNL	25	3.9	18	0.10	Category 0
CAP.J4W (CAP.BANK)	BUS J4W FU	0.48	5.32	3.83	5.32	3.83	0.004	PNL	25	17	18	1.0	Category 0 (*N4)
CAP.-J5E	BUS-J5E FU	0.48	5.33	3.83	5.33	3.83	0.008	PNL	25	3.9	18	0.10	Category 0

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CAP.-K12W	BUS-K12W FU	0.48	5.95	4.21	5.95	4.21	0.008	PNL	25	4.2	18	0.11	Category 0
CAP.K4W (CAP BANK AT K4)	BUS-K4W FU.	0.48	5.93	4.19	5.93	4.19	0.004	PNL	25	17	18	1.0	Category 0 (*N4)
CAP-D14W	BUS-D14W-FU	0.48	5.77	4.10	5.77	4.10	0.008	PNL	25	4.1	18	0.11	Category 0
CAP-D4W	BUS-D4W-FU	0.48	5.81	4.13	5.81	4.13	0.008	PNL	25	4.1	18	0.11	Category 0
CAP-E12W	CAP-E12W FU	0.48	5.36	3.85	5.36	3.85	0.008	PNL	25	3.9	18	0.10	Category 0
CAP-E4W	CAP-E4W FU	0.48	5.36	3.85	5.36	3.85	0.008	PNL	25	3.9	18	0.10	Category 0
CAP-F12W	CAP-F12W-FU	0.48	5.21	3.76	5.21	3.76	0.008	PNL	25	3.9	18	0.10	Category 0
CAP-F4W	BUS-F4W-FU	0.48	5.21	3.76	5.21	3.76	0.008	PNL	25	3.9	18	0.10	Category 0
CAP-G11E	CAP-G11E FU	0.48	5.57	3.98	5.57	3.98	0.008	PNL	25	4.0	18	0.10	Category 0
CAP-G12E	CAP-G12E FU	0.48	5.57	3.98	5.57	3.98	0.008	PNL	25	4.0	18	0.10	Category 0
CAP-G4W	BUS-G4W FU	0.48	5.23	3.77	5.23	3.77	0.008	PNL	25	3.9	18	0.10	Category 0
CAP-H12W	BUS-H12W FU	0.48	5.68	4.05	5.68	4.05	0.008	PNL	25	4.1	18	0.10	Category 0
CAP-H4W (CAP BANK)	BUS-H4W FU	0.48	5.68	4.05	5.68	4.05	0.008	PNL	25	4.1	18	0.10	Category 0
CAP-H5E	BUS-H5E FU	0.48	5.67	4.04	5.67	4.04	0.008	PNL	25	4.1	18	0.10	Category 0
CAP-J12W	BUS-J12W FU	0.48	5.33	3.83	5.33	3.83	0.008	PNL	25	3.9	18	0.10	Category 0
COMP. 1 MST (CONTROL PNL.)	COMP. 1 MAIN	0.48	13.09	8.26	11.36	7.16	0.065	PNL	25	23	18	1.8	Category 1
COMP. 1 MST (CONTROL PNL.) (COMP. 1 MAIN LineSide)	MAIN SWG. SEC-A	0.48	13.09	8.26	11.34	7.15	2	PNL	25	170	18	48	Dangerous! (*N9)
COMP. RM. PNL	MAIN SWG. SEC-A	0.48	13.76	8.62	12.22	7.65	2	PNL	25	178	18	52	Dangerous! (*N9)
COMP.-011 VFD (VARIABLE DRIVE AIR COMP.)	C.R.P.-B1	0.48	10.89	7.05	10.89	7.05	0.017	PNL	25	9.0	18	0.38	Category 0
CPN. MAN. BLAST	MAN. BLAST MAIN	0.48	5.17	3.73	5.17	3.73	0.017	PNL	25	6.9	18	0.25	Category 0
CPN. MAN. BLAST (MAN. BLAST MAIN LineSide)	SWG-PS2-10	0.48	5.17	3.73	5.17	3.73	0.017	PNL	25	6.9	18	0.25	Category 0
CPN. TRAIL. BOOTH	TRAIL. BOOTH CPN FU.	0.48	7.08	4.88	7.08	4.88	0.008	PNL	25	5.4	18	0.17	Category 0
CPN. TRAIL. BOOTH (TRAIL. BOOTH CPN FU. LineSide)	SWG-PS1-6	0.48	7.08	4.88	7.08	4.88	0.017	PNL	25	8.2	18	0.33	Category 0
CPN-AUTO BLAST	AUTO BLAST MAIN	0.48	7.75	5.27	7.75	5.27	0.017	PNL	25	8.7	18	0.36	Category 0
CPN-AUTO BLAST (AUTO BLAST MAIN LineSide)	SWG-PS1 MAIN	0.48	7.75	5.27	7.75	4.48	0.036	PNL	25	13	18	0.66	Category 0 (*N3) (*N5)
CPN-CURE OVEN	CURE OVEN FU	0.48	5.93	4.20	5.93	4.20	0.004	PNL	25	3.2	18	0.07	Category 0
CPN-CURE OVEN (CURE OVEN FU LineSide)	SWG-PS1-4	0.48	5.93	4.20	5.93	4.20	0.017	PNL	25	7.5	18	0.28	Category 0
CPN-SPRAY&BAKE#1	SWG-PS2-9	0.48	3.83	2.45	3.83	2.45	0.017	PNL	25	5.4	18	0.16	Category 0 (*N3) (*N5)
CPN-SPRAY&BAKE#1 (SPRAY&BAKE#1 FU. LineSide)	SWG-PS2-9	0.48	3.83	2.45	3.83	2.89	0.017	PNL	25	5.9	18	0.19	Category 0
CPN-SPRAY&BAKE#2	SPRAY&BAKE#2 FU.	0.48	4.17	2.64	4.17	2.64	0.016	PNL	25	5.3	18	0.16	Category 0 (*N3)

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CPN-SPRAY&BAKE#2 (SPRAY&BAKE#2 FU. LineSide)	SWG-PS2-7	0.48	4.17	2.64	4.17	3.11	0.017	PNL	25	6.2	18	0.21	Category 0
CPN-SPRAY&BAKE#3	SPRAY&BAKE#3 FU.	0.48	4.66	2.90	4.66	2.90	0.01	PNL	25	4.3	18	0.12	Category 0 (*N3)
CPN-SPRAY&BAKE#3 (SPRAY&BAKE#3 FU. LineSide)	SWG-PS2-5	0.48	4.66	2.90	4.66	3.41	0.017	PNL	25	6.5	18	0.23	Category 0
DC-1500 (WELDER)	BUS-H14E FU	0.48	8.10	4.66	8.10	4.66	0.01	PNL	25	5.1	18	0.15	Category 0 (*N3)
DCT-H14E (DISCONNECT)	BUS-H14E FU	0.48	8.59	5.76	8.59	5.76	0.008	PNL	25	5.1	18	0.15	Category 0
DCT-H14E (DISCONNECT) (DCT-H14E FU. LineSide)	BUS-H14E FU	0.48	8.59	5.76	8.59	5.76	0.008	PNL	25	5.1	18	0.15	Category 0
DCT-MT-051	PNL-G&L-6	0.48	6.74	3.98	6.74	3.98	0.017	PNL	25	6.3	18	0.21	Category 0 (*N3)
DCT-MT-051 (MT-051 FU LineSide)	PNL-G&L-6	0.48	6.74	3.98	6.74	4.68	0.017	PNL	25	6.9	18	0.25	Category 0
DPN#1	MAIN SWG. SEC-B	0.48	13.86	8.67	13.86	8.67	2	PNL	25	189	18	57	Dangerous! (*N9)
DPN#2	MAIN SWG. SEC-B	0.48	12.27	7.81	12.27	7.81	2	PNL	25	176	18	51	Dangerous! (*N9)
DPN#3	MAIN SWG. SEC-A	0.48	13.89	8.68	13.54	8.46	2	PNL	25	189	18	57	Dangerous! (*N9)
DPN#4	MAIN SWG. SEC-A	0.48	13.90	8.69	13.55	8.47	2	PNL	25	189	18	57	Dangerous! (*N9)
DPN-001	BUS-B2E-FU	0.48	6.02	3.61	6.02	3.61	0.011	PNL	25	4.4	18	0.12	Category 0 (*N3)
DPN-007	DPN-007-FU	0.48	6.84	4.03	6.84	4.03	0.018	PNL	25	6.4	18	0.22	Category 0 (*N3)
DPN-007-SW.	DPN-007-FU	0.48	11.42	7.35	11.42	7.35	0.008	PNL	25	6.0	18	0.20	Category 0
DPN-007-SW. (DPN-007-FU LineSide)	PD-0122	0.48	11.42	7.35	11.42	6.24	1.134	PNL	25	108	18	23	Category 3 (*N3)
DPN-019	SWG-012-6	0.48	10.69	6.94	10.69	6.94	0.008	PNL	25	5.8	18	0.19	Category 0
DPN-A8E	DPN#1-3	0.48	11.17	7.21	11.17	7.21	0.03	PNL	25	13	18	0.70	Category 0
DPN-MSS (MOONSHINE SHOP)	MSS FU	0.48	7.35	4.29	7.35	4.29	0.023	PNL	25	7.8	18	0.30	Category 0 (*N3)
DPN-P.R.	SWG-012-5	0.48	6.77	3.99	6.77	3.99	0.018	PNL	25	6.5	18	0.22	Category 0 (*N3)
DPN-PMP NORTH-SW	DPN-PMP NORTH-FU	0.48	11.42	7.35	11.42	7.35	0.008	PNL	25	6.0	18	0.20	Category 0
DPN-PMP NORTH-SW (DPN-PMP NORTH-FU LineSide)	PD-0122	0.48	11.42	7.35	11.42	6.24	1.134	PNL	25	108	18	23	Category 3 (*N3)
DPN-PMP SHOP NORTH	DPN-PMP NORTH-FU	0.48	9.77	6.43	9.77	6.43	0.008	PNL	25	5.5	18	0.17	Category 0
DPN-PMP SHOP SOUTH	DPN-PMP SOUTH-FU	0.48	8.44	5.67	8.44	5.67	0.008	PNL	25	5.1	18	0.15	Category 0
DPN-PMP SOUTH-PNL	DPN-PMP SOUTH-FU	0.48	11.42	7.35	11.42	7.35	0.008	PNL	25	6.0	18	0.20	Category 0
DPN-PMP SOUTH-PNL (DPN-PMP SOUTH-FU LineSide)	ELECTRONICS-FU	0.48	11.42	7.35	11.42	6.24	1.62	PNL	25	134	18	32	Category 4 (*N3)
DSW-F18W-N.	BUS-F16W-FU.2	0.48	4.27	3.17	4.27	3.17	0.008	PNL	25	3.5	18	0.08	Category 0
DSW-F18W-N. (DSW-F18W-N.FU LineSide)	BUS-F16W-FU.2	0.48	4.27	3.17	4.27	3.17	0.008	PNL	25	3.5	18	0.08	Category 0
DSW-F18W-S.	BUS-F16W-FU.1	0.48	4.27	3.17	4.27	3.17	0.008	PNL	25	3.5	18	0.08	Category 0
DSW-F18W-S. (DSW-F18W-S.FU LineSide)	BUS-F16W-FU.1	0.48	4.27	3.17	4.27	3.17	0.008	PNL	25	3.5	18	0.08	Category 0

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DSW-H8E-SW.	MT-05-FU	0.48	8.30	5.59	8.30	5.59	0.008	PNL	25	5.0	18	0.15	Category 0
DSW-H8E-SW. (MT-05-FU LineSide)	DPN#2-4	0.48	8.30	5.59	8.30	4.75	0.047	PNL	25	13	18	0.69	Category 0 (*N3)
DSW-T.C.	DSW-T.C. FU	0.48	5.02	3.64	5.02	3.64	0.008	PNL	25	3.8	18	0.09	Category 0
DSW-T.C. (DSW-T.C. FU LineSide)	PNL-C-B4	0.48	5.02	3.64	5.02	3.64	0.017	PNL	25	5.8	18	0.19	Category 0
<b>ELECTRONICS-</b>	<b>ELECTRONICS-FU</b>	<b>0.48</b>	<b>11.76</b>	<b>6.4</b>	<b>11.76</b>	<b>6.4</b>	<b>1.407</b>	<b>PNL</b>	<b>25</b>	<b>124.9</b>	<b>18</b>	<b>28.71</b>	<b>Category 4 (*N3)</b>
<b>ELECTRONICS- (ELECTRONICS-FU LineSide)</b>	<b>MAIN SWG. SEC-B</b>	<b>0.48</b>	<b>11.76</b>	<b>6.40</b>	<b>11.73</b>	<b>7.51</b>	<b>2</b>	<b>PNL</b>	<b>25</b>	<b>172</b>	<b>18</b>	<b>49</b>	<b>Dangerous! (*N9)</b>
FILTER CABINET	DPN-A8E-2	0.48	10.30	6.73	10.30	6.73	0.004	PNL	25	3.7	18	0.09	Category 0
FILTER CABINET (FILTER CAB. FU LineSide)	DPN-A8E-2	0.48	10.30	6.73	10.30	6.73	0.004	PNL	25	3.7	18	0.09	Category 0
J.B.- 001	PNL-A FU	0.48	4.65	2.90	4.65	2.90	0.407	PNL	25	34	18	3.5	Category 1 (*N3)
J.B. F18W	BUS-F16W-FU.2	0.48	3.52	2.28	3.52	2.28	0.019	PNL	25	4.6	18	0.13	Category 0 (*N3)
J.B. F18W. (JUNCTION BOX)	BUS-F16W-FU.1	0.48	3.48	2.26	3.48	2.26	0.02	PNL	25	4.7	18	0.13	Category 0 (*N3)
J.B. W-LTG.-1	BUS-F16W-FU.2	0.48	2.09	1.46	2.09	1.46	0.135	PNL	25	11	18	0.56	Category 0 (*N3)
J.B. W-LTG.-2	BUS-F16W-FU.1	0.48	2.08	1.46	2.08	1.46	0.139	PNL	25	12	18	0.58	Category 0 (*N3)
J.B.-001	PNL-B&C FU.	0.48	5.89	3.55	5.89	3.55	0.059	PNL	25	12	18	0.64	Category 0 (*N3)
L.C. F18W	BUS-F16W-FU.1	0.48	3.52	2.28	3.52	2.28	0.019	PNL	25	4.6	18	0.13	Category 0 (*N3)
LP-1	BUS-K9E FU	0.48	9.09	5.14	9.09	5.14	0.008	PNL	25	4.8	18	0.13	Category 0 (*N3)
MF-009-CPN	BUS-F3W-FU	0.48	4.89	3.03	4.89	3.03	0.012	PNL	25	4.2	18	0.11	Category 0 (*N3)
MF-009-SW. (METAL BREAK)	BUS-F3W-FU	0.48	5.02	3.09	5.02	3.09	0.011	PNL	25	4.0	18	0.10	Category 0 (*N3)
MF-009-SW. (METAL BREAK) (MF-009-FU LineSide)	BUS-F3W-FU	0.48	5.02	3.09	5.02	3.09	0.011	PNL	25	4.0	18	0.10	Category 0 (*N3)
MF03A CPN	BUS-G2W FU	0.48	4.60	3.38	4.60	3.38	0.008	PNL	25	3.6	18	0.09	Category 0 (*N5)
MF03A CPN (MF03A MAIN LineSide)	BUS-G2W FU	0.48	4.60	3.38	4.60	3.38	0.008	PNL	25	3.6	18	0.09	Category 0
MF03A SW. (DISCONNECT)	BUS-G2W FU	0.48	4.89	3.56	4.89	3.56	0.008	PNL	25	3.7	18	0.09	Category 0
MF03A SW. (DISCONNECT) (MF03A FU LineSide)	BUS-G2W FU	0.48	4.89	3.56	4.89	3.56	0.008	PNL	25	3.7	18	0.09	Category 0
MF13 CPN (SMALL BRAKE)	BUS-G5W FU.	0.48	4.67	3.42	4.67	3.42	0.008	PNL	25	3.6	18	0.09	Category 0 (*N5)
MF13 CPN (SMALL BRAKE) (MF13 MAIN LineSide)	BUS-G5W FU.	0.48	4.67	3.42	4.67	3.42	0.008	PNL	25	3.6	18	0.09	Category 0
MF13 SW (DISCONNECT)	BUS-G5W FU.	0.48	4.89	3.56	4.89	3.56	0.008	PNL	25	3.7	18	0.09	Category 0
MF13 SW (DISCONNECT) (MF13 FU LineSide)	BUS-G5W FU.	0.48	4.89	3.56	4.89	3.56	0.008	PNL	25	3.7	18	0.09	Category 0
MF-52 CPN (CONTROL PANEL)	MF-52 MAIN	0.48	5.16	3.73	5.16	3.73	0.017	PNL	25	5.9	18	0.19	Category 0
MF-52 CPN (CONTROL PANEL) (MF-52 MAIN LineSide)	MF-52 FU	0.48	5.16	3.73	5.16	3.17	0.043	PNL	25	9.4	18	0.41	Category 0 (*N3)
MF-52 SW.	MF-52 FU	0.48	5.33	3.26	5.33	3.26	0.039	PNL	25	9.0	18	0.39	Category 0 (*N3)

# ARC-FLASH RESULTS TABLE (IEEE-1584-2002)

Bus Name	Protective Device Name	Bus kV	Bus Bolted Fault (kA)	Bus Arcing Fault (kA)	Prot Dev Bolted Fault (kA)	Prot Dev Arcing Fault (kA)	Trip/Delay Time (sec)	Equip Type	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm <sup>2</sup> )	Required Protective FR Clothing Category
MF-52 SW. (MF-52 FU LineSide)	DPN#3-6	0.48	5.33	3.26	5.33	3.83	2	PNL	25	111	18	23	Category 3 (*N9)
MSS SW.	MSS FU	0.48	13.37	8.41	13.37	8.41	0.008	PNL	25	6.6	18	0.23	Category 0
MSS SW. (MSS FU LineSide)	MAIN SWG. SEC-A	0.48	13.37	8.41	11.87	7.46	2	PNL	25	176	18	50	Dangerous! (*N9)
MT-051 CONT. CAB.	MT-051 FU	0.48	5.82	4.13	5.82	4.13	0.016	PNL	25	6.1	18	0.20	Category 0 (*N5)
MT-051 CONT. CAB. (MT-051 MAIN LineSide)	MT-051 FU	0.48	5.82	4.13	5.82	4.13	0.016	PNL	25	6.1	18	0.20	Category 0
MT-052 CONT CAB.	PNL-G&L-4	0.48	8.88	5.93	8.88	5.93	0.017	PNL	25	8.0	18	0.31	Category 0
MT-052 CONT CAB. (MT-052 MAIN LineSide)	PNL-G&L-4	0.48	8.88	5.93	8.88	5.93	0.017	PNL	25	8.0	18	0.31	Category 0
MT-054 CPN. (CONTROL PANEL)	MT-054 MAIN	0.48	5.16	3.73	5.16	3.73	0.017	PNL	25	5.9	18	0.19	Category 0
MT-054 CPN. (CONTROL PANEL) (MT-054 MAIN LineSide)	BUS-H3W FU	0.48	5.16	3.73	5.16	3.17	0.043	PNL	25	9.5	18	0.42	Category 0 (*N3)
MT-054 SW. (HEAVY DUTY SW)	BUS-H3W FU	0.48	5.51	3.35	5.51	3.35	0.035	PNL	25	8.6	18	0.36	Category 0 (*N3)
MT-05-CPN	MT-05-FU	0.48	7.99	5.42	7.99	5.42	0.008	PNL	25	4.9	18	0.14	Category 0 (*N5)
MT-05-CPN (MT-05 MAIN LineSide)	MT-05-FU	0.48	7.99	5.42	7.99	5.42	0.008	PNL	25	4.9	18	0.14	Category 0
MT-07A CPN (CONTROL PANEL)	BUS-J6E FU	0.48	4.75	2.95	4.75	2.95	0.014	PNL	25	4.5	18	0.12	Category 0 (*N3) (*N5)
MT-07A CPN (CONTROL PANEL) (MT-07A MAIN LineSide)	BUS-J6E FU	0.48	4.75	2.95	4.75	2.95	0.014	PNL	25	4.5	18	0.12	Category 0 (*N3)
MT-07A SW	BUS-J6E FU	0.48	5.06	3.12	5.06	3.12	0.011	PNL	25	4.0	18	0.10	Category 0 (*N3)
MT-07A SW (MT-07A FU LineSide)	BUS-J6E FU	0.48	5.06	3.12	5.06	3.12	0.011	PNL	25	4.0	18	0.10	Category 0 (*N3)
MT-11 CPN	MT-11 FU.	0.48	5.35	3.84	5.35	3.84	0.008	PNL	25	3.9	18	0.10	Category 0 (*N5)
MT-11 CPN (MT-11 MAIN LineSide)	MT-11 FU.	0.48	5.35	3.84	5.35	3.84	0.008	PNL	25	3.9	18	0.10	Category 0
MT-11 SW. (DISCONNECT)	MT-11 FU.	0.48	5.51	3.94	5.51	3.94	0.008	PNL	25	4.0	18	0.10	Category 0
MT-11 SW. (DISCONNECT) (MT-11 FU. LineSide)	BUS-H4E-FU.	0.48	5.51	3.94	5.51	3.35	0.035	PNL	25	8.6	18	0.36	Category 0 (*N3)
MT-64 SW. (DISCONNECT)	BUS-H10E FU.	0.48	8.11	4.66	8.11	4.66	0.008	PNL	25	4.5	18	0.12	Category 0 (*N3)
MT-64 SW. (DISCONNECT) (MT-64 FU. LineSide)	BUS-H10E FU.	0.48	8.11	4.66	8.11	4.66	0.008	PNL	25	4.5	18	0.12	Category 0 (*N3)
PANEL-A MAIN LOAD	PNL-A MAIN	0.48	4.25	2.68	4.25	2.68	0.03	PNL	25	6.7	18	0.24	Category 0 (*N3)
PANEL-A MAIN LOAD (PNL-A MAIN LineSide)	PNL-A FU	0.48	4.25	2.68	4.25	2.68	0.579	PNL	25	40	18	4.5	Category 2 (*N3)
PNL-A	PNL-A MAIN	0.48	4.25	2.68	4.25	2.68	0.03	PNL	25	6.7	18	0.24	Category 0 (*N3)
PNL-A SW.	PNL-A FU	0.48	6.83	4.03	6.83	4.03	0.09	PNL	25	17	18	1.1	Category 0 (*N3)
PNL-A SW. (PNL-A FU LineSide)	MAIN SWG. SEC-A	0.48	6.83	4.03	6.07	4.21	2	PNL	25	124	18	28	Category 4 (*N9)
PNL-B	PNL-B&C FU.	0.48	5.03	3.10	5.03	3.10	0.114	PNL	25	17	18	1.1	Category 0 (*N3)
PNL-B&C FU (DISCONNECT)	PNL-B&C FU.	0.48	14.33	8.92	14.33	8.92	0.008	PNL	25	6.8	18	0.24	Category 0
PNL-B&C FU (DISCONNECT) (PNL-B&C FU. LineSide)	MAIN SWG. SEC-A	0.48	14.33	8.92	12.72	7.92	2	PNL	25	182	18	53	Dangerous! (*N9)

# ARC-FLASH RESULTS TABLE (IEEE-1584-2002)

Bus Name	Protective Device Name	Bus kV	Bus Bolted Fault (kA)	Bus Arcing Fault (kA)	Prot Dev Bolted Fault (kA)	Prot Dev Arcing Fault (kA)	Trip/Delay Time (sec)	Equip Type	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm <sup>2</sup> )	Required Protective FR Clothing Category
PNL-B15	BUS-C14E-FU	0.48	8.11	4.66	8.11	4.66	0.01	PNL	25	5.1	18	0.15	Category 0 (*N3)
PNL-B15 (PNL-B15-MAIN LineSide)	BUS-C14E-FU	0.48	8.11	4.66	8.11	4.66	0.01	PNL	25	5.1	18	0.15	Category 0 (*N3)
PNL-B7E	DPN#1-8	0.48	9.92	6.51	9.92	6.51	0.027	PNL	25	11	18	0.56	Category 0
PNL-C	PNL-B&C FU.	0.48	5.81	3.51	5.81	3.51	0.062	PNL	25	13	18	0.66	Category 0 (*N3)
PNL-D	PNL-D FU	0.48	3.81	2.44	3.81	2.44	0.278	PNL	25	24	18	2.0	Category 1 (*N3)
PNL-D SW.	PNL-A MAIN	0.48	4.19	2.65	4.19	2.65	0.031	PNL	25	6.8	18	0.24	Category 0 (*N3) (*N5)
PNL-D SW. (PNL-D FU LineSide)	PNL-A MAIN	0.48	4.19	2.65	4.19	2.65	0.031	PNL	25	6.8	18	0.24	Category 0 (*N3)
PNL-G&L	DPN#4-6	0.48	9.65	6.36	9.65	6.36	0.033	PNL	25	13	18	0.67	Category 0
PNL-H3-SE	BUS H3E. FU	0.48	5.32	3.82	5.32	3.82	0.008	PNL	25	3.9	18	0.10	Category 0
PNL-H6E (SQ. D I-LINE 100A)	BUS-H6E FU	0.48	5.32	3.82	5.32	3.82	0.008	PNL	25	3.9	18	0.10	Category 0
PNL-HA	SWG-PS2-11	0.48	10.75	6.98	10.75	6.98	0.017	PNL	25	10	18	0.49	Category 0
PNL-L	SWG TRAIN. CENTER-2	0.48	13.77	8.62	13.77	8.62	0.019	PNL	25	13	18	0.69	Category 0
PNL-OUTSIDE	PNL-OUTSIDE MAIN	0.48	11.27	7.26	11.27	7.26	0.017	PNL	25	11	18	0.51	Category 0
PNL-OUTSIDE (PNL-OUTSIDE MAIN LineSide)	SWG TRAIN CENTER-1	0.48	11.27	7.26	11.27	7.26	0.019	PNL	25	12	18	0.58	Category 0
SALES-PNL	DPN#2-8	0.48	5.63	4.01	5.63	4.01	0.028	PNL	25	8.5	18	0.35	Category 0
SEC-A LOAD	MAIN SWG. SEC-A	12.47	2.34	2.33	2.29	2.27	0.797	SWG	153	83	36	2.7	Category 1
SEC-A LOAD (MAIN SWG. SEC-A LineSide)	MaxTripTime @2.0s	12.47	2.34	2.33	2.29	2.27	2	SWG	153	213	36	6.7	Category 2 (*N2) (*N9)
SEC-B LOAD	MAIN SWG. SEC-B	12.47	2.34	2.33	2.34	2.33	0.755	SWG	153	78	36	2.5	Category 1
SEC-B LOAD (MAIN SWG. SEC-B LineSide)	MaxTripTime @2.0s	12.47	2.34	2.33	2.29	2.27	2	SWG	153	213	36	6.7	Category 2 (*N2) (*N9)
SPRAY&BAKE#1	SWG-PS2-9	0.48	3.88	2.92	3.88	2.92	0.017	PNL	25	6.0	18	0.19	Category 0
SPRAY&BAKE#2	SWG-PS2-7	0.48	4.23	3.15	4.23	3.15	0.017	PNL	25	6.2	18	0.21	Category 0
SPRAY&BAKE#3	SWG-PS2-5	0.48	4.74	3.46	4.74	3.46	0.017	PNL	25	6.6	18	0.23	Category 0
<b>SWG TRAINING CTR</b>	<b>SWG-TRAIN. CENT. MAIN</b>	<b>0.48</b>	<b>14.34</b>	<b>7.58</b>	<b>14.34</b>	<b>7.58</b>	<b>0.336</b>	<b>PNL</b>	<b>25</b>	<b>68.52</b>	<b>18</b>	<b>10.72</b>	<b>Category 3 (*N3)</b>
SWG TRAINING CTR (SWG-TRAIN. CENT. MAIN LineSide)	SWG-TRAIN. CENT. MAIN	0.48	14.34	7.58	0.00	0.00	2	PNL	25	226	18	76	Dangerous! (*N2) (*N9)
SWG-012	ELECTRONICS-FU	0.48	10.84	5.97	10.84	5.97	2	PNL	25	148	18	38	Category 4 (*N3) (*N9)
SWG-PS1	SWG-PS1 MAIN	0.48	11.07	7.15	11.07	7.15	0.025	PNL	25	14	18	0.75	Category 0
SWG-PS1 (SWG-PS1 MAIN LineSide)	MaxTripTime @2.0s	0.48	11.07	7.15	11.07	7.15	2	PNL	25	196	18	60	Dangerous! (*N2) (*N9)
SWG-PS2	SWG-PS2-MAIN	0.48	11.07	7.15	11.07	7.15	0.025	PNL	25	14	18	0.75	Category 0
SWG-PS2 (SWG-PS2-MAIN LineSide)	MaxTripTime @2.0s	0.48	11.07	7.15	11.07	7.15	2	PNL	25	196	18	60	Dangerous! (*N2) (*N9)
TAP BOX#1	MAIN SWG. SEC-B	12.47	2.31	2.30	2.31	2.30	0.776	SWG	153	80	36	2.6	Category 1

# ARC-FLASH RESULTS TABLE (IEEE-1584-2002)

Bus Name	Protective Device Name	Bus kV	Bus Bolted Fault (kA)	Bus Arcing Fault (kA)	Prot Dev Bolted Fault (kA)	Prot Dev Arcing Fault (kA)	Trip/Delay Time (sec)	Equip Type	Gap (mm)	Arc Flash Boundary (in)	Working Distance (in)	Incident Energy (cal/cm2)	Required Protective FR Clothing Category
TAP BOX#2	MAIN SWG. SEC-B	12.47	2.32	2.31	2.32	2.31	0.77	SWG	153	79	36	2.6	Category 1
TAP BOX#3	MAIN SWG. SEC-A	12.47	2.33	2.32	2.27	2.26	0.806	SWG	153	83	36	2.7	Category 1
TAP BOX#4	MAIN SWG. SEC-A	12.47	2.34	2.33	2.28	2.27	0.8	SWG	153	83	36	2.7	Category 1
TRAILER BOOTH	SWG-PS1-6	0.48	7.32	5.02	7.32	5.02	0.017	PNL	25	8.4	18	0.34	Category 0
UPS	FILTER CAB. FU	0.48	6.51	4.54	6.51	4.54	0.004	PNL	25	2.9	18	0.06	Category 0 (*N5)
UPS (UPS MAIN LineSide)	FILTER CAB. FU	0.48	6.51	4.54	6.51	4.54	0.004	PNL	25	2.9	18	0.06	Category 0
WASTE PNL	WASTE PNL FU	0.48	5.57	3.38	5.57	3.38	0.149	PNL	25	21	18	1.5	Category 1 (*N3)
WASTE PNL (WASTE PNL FU LineSide)	DPN#4-5	0.48	5.57	3.38	5.57	3.98	2	PNL	25	113	18	24	Category 3 (*N9)
WPS-385	BUS-F10W-FU	0.48	4.73	3.46	4.73	3.46	0.008	PNL	25	3.7	18	0.09	Category 0
WPS-385-SW (WELDER)	BUS-F10W-FU	0.48	4.91	3.57	4.91	3.57	0.008	PNL	25	3.7	18	0.09	Category 0
WPS-385-SW (WELDER) (WPS-385-FU LineSide)	BUS-F10W-FU	0.48	4.91	3.57	4.91	3.57	0.008	PNL	25	3.7	18	0.09	Category 0
Category 0: Untreated Cotton												(*N2) < 80% Cleared Fault Threshold	
Category 1: FR Shirt & Pants												(*N3) - Arcing Current Low Tolerances Used	
Category 2: Cotton Underwear + FR Shirt & Pants												(*N4) - Equipment Specific Equations Used	
Category 3: Cotton Underwear + FR Shirt & Pant + FR Coverall												(*N5) - Miscoordinated, Upstream Device Tripped	
Category 4: Cotton Underwear + FR Shirt & Pant + Multi Layer Flash Suit												(*N9) - Max Arcing Duration Reached	
Category Dangerous!: No FR Category Found												IEEE 1584 - 2002/2004a Edition Bus + Line Side Report (Include Line Side + Load Side Contributions), 80% Cleared Fault Threshold, include Ind. Motors for 5.0 Cycles), mis-coordination checked	