

Test Identifier

- C - Carolfire
- E - EPRI/NEI
- D - DESIREE
- IP- Preliminary Test
- IT - Intermediate
- P - Penlight
- CK - Circuit
- JPN- Japanese Cable
qual-?

	Conductor Count	Conductor Size (AWG)	Insulation Type	Insulation Material	Insulation Thickness	Jacket Type	Jacket Material	Jacket Thickness	Cable Shield	Armor	Drain Wire	Exposure Location	Exposure Condition	Raceway type	Cable Orientation	Raceway fill	Control Power
C-IT-IP-3-CK1	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No		A	F	T	H	S	150 N
C-IT-IP-3-CK1	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No		A	F	T	H	S	150 N
C-IT-IP-4-CK1	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No		A	F	T	H	B-4	150 N
C-IT-IP-4-CK2	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No		A	F	T	H	B-4	150 Y
C-IT-IP-4-CK3	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No		A	F	T	H	B-4	200 Y
C-IT-IP-4-CK4	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No		A	F	T	H	B-4	100 Y
C-IT-1-CK1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No		B	H	T	H	B-12	150 N
C-IT-1-CK2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No		B	H	T	H	B-12	150 Y
C-IT-1-CK3	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No		B	H	T	H	B-12	200 Y
C-IT-1-CK4	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No		B	H	T	H	B-12	100 Y
C-IT-2-CK1	7	12	TS	XLPE	0.760	TP	PVC	1.520	No	No		A	F	T	H	B-12	150 N
C-IT-2-CK2	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC		A	F	T	H	B-12	150 Y
C-IT-2-CK3	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No		G	H	T	H	S	200 Y
C-IT-2-CK4	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC		C	P	T	H	B-6	100 Y
C-IT-3-CK1	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC		A	F	T	H	B-6	150 N
C-IT-3-CK2	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC		A	F	T	H	B-6	150 Y
C-IT-3-CK3	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC		C	P	T	H	B-6	200 Y
C-IT-3-CK4	3	8	TP	PVC	0.910	TP	PVC	1.520	No	No	Yes	G	H	T	H	S	100 Y
C-IT-4-CK1	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC		C	P	T	H	B-6	150 N
C-IT-4-CK2	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC		C	P	T	H	B-6	150 Y
C-IT-4-CK3	MC	MC	MC	MC	MC	MC	MC	MC	MC	MC		A	F	T	H	B-6	200 Y

C-IT-4-CK4
 C-IT-5-CK1
 C-IT-5-CK2
 C-IT-5-CK3
 C-IT-5-CK4
 C-IT-6-CK1
 C-IT-6-CK2
 C-IT-6-CK3
 C-IT-6-CK4
 C-IT-7-CK1
 C-IT-7-CK2
 C-IT-7-CK3
 C-IT-7-CK4
 C-IT-8-CK1
 C-IT-8-CK2
 C-IT-8-CK3
 C-IT-8-CK4
 C-IT-9-CK1
 C-IT-9-CK2
 C-IT-9-CK3
 C-IT-9-CK4
 C-IT-10-CK1
 C-IT-10-CK2
 C-IT-10-CK3
 C-IT-10-CK4
 C-IT-11-CK1
 C-IT-11-CK2
 C-IT-11-CK3
 C-IT-11-CK4
 C-IT-12-CK1
 C-IT-12-CK2
 C-IT-12-CK3
 C-IT-12-CK4
 C-IT-13-CK1

MC		MC	MC	MC	MC	MC	MC	MC	MC		A	F	T	H	B-6	100	Y
	7	14	TS	SR-V	1.540	TS	SR-V	1.910	No	No	A	F	T	H	B-6	150	N
MC	MC	MC	MC	MC	MC	MC	MC	MC	MC		C	P	T	H	B-6	150	Y
	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No	G	H	T	H	S	200	Y
MC	MC	MC	MC	MC	MC	MC	MC	MC	MC		A	F	T	H	B-6	100	Y
	7	12	TS	SR	1.270	TS	Braid	1.020	No	No	C	P	T	H	B-6	150	N
	7	12	TS	SR	1.270	TS	Braid	1.020	No	No	A	F	T	H	B-6	150	Y
	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No	C	P	T	H	B-6	200	Y
	7	12	TS	XLPO	0.510	TS	XLPO	0.890	No	No	A	F	T	H	B-6	100	Y
	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No	G	H	T	H	B-6	150	N
	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No	A	F	T	H	B-6	150	Y
	7	12	TS	XLPE	0.760	TP	PVC	1.520	No	No	A	F	T	H	B-6	200	Y
	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No	E	H	C	H	B-4	100	Y
	7	12	TS	XLPE	0.760	TP	PVC	1.520	No	No	G	H	T	H	B-6	150	N
	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	A	F	T	H	B-6	150	Y
	7	12	TS	XLPE	0.760	TP	PVC	1.520	No	No	A	F	T	H	B-6	200	Y
	7	12	TS	XLPE	0.760	TP	PVC	1.520	No	No	E	H	C	H	B-4	100	Y
	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No	G	H	T	H	B-6	150	N
	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No	A	F	T	H	B-6	150	Y
	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	A	F	T	H	B-6	200	Y
	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	G	H	T	H	B-6	100	Y
	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No	G	H	T	H	B-6	150	N
	7	12	TS	SR	1.270	TS	Braid	1.020	No	No	A	F	T	H	B-6	150	Y
	7	12	TP	TEF	0.410	TP	TEF	0.510	No	No	A	F	T	H	B-6	200	Y
	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	G	H	T	H	B-6	100	Y
	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No	A	F	T	H	B-6	150	N
	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	E	H	A	H	B-4	150	Y
	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No	G	H	T	H	B-6	200	Y
	7	12	TS	XLPE	0.760	TP	PVC	1.520	No	No	A	F	T	H	B-6	None	Y
	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No	A	F	T	H	B-6	150	N
	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	E	H	A	H	B-4	150	Y
	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No	G	H	T	H	B-6	200	Y
	7	12	TS	XLPE	0.760	TP	PVC	1.520	No	No	A	F	T	H	B-6	None	Y
	7	12	TS	XLPE	0.760	TP	PVC	1.520	No	No	F	P	T	H	B-6	150	N

C-IT-13-CK2	7	14	TS	SR-V	1.540	TS	SR-V	1.910	No	No		F	P	T	H	B-6	150	Y
C-IT-13-CK3	7	12	TS	XLPE	0.760	TP	PVC	1.520	No	No		G	H	T	H	B-6	200	Y
C-IT-13-CK4	7	14	TS	SR-V	1.540	TS	SR-V	1.910	No	No		G	H	T	H	B-6	None	Y
C-IT-14-CK1	7	12	TS	XLPE	0.760	TP	PVC	1.520	No	No		F	P	T	H	B-6	150	N
C-IT-14-CK2	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No		F	P	T	H	B-6	150	Y
C-IT-14-CK3	7	12	TS	XLPE	0.760	TP	PVC	1.520	No	No		G	H	T	H	B-6	200	Y
C-IT-14-CK4	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No		G	H	T	H	B-6	None	Y
D-IT-11-CK1	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No		A	F	T	H	F	100	Y
D-IT-11-CK2	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No		A	F	T	H	F	150	Y
D-IT-11-CK3	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No		A	F	T	H	F	200	Y
D-IT-12-CK1	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No		C	H	T	H	B-4	100	Y
D-IT-12-CK2	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No		C	H	T	H	B-4	150	Y
D-IT-12-CK3	7	12	TS	EPR	0.760	TS	CPE	1.520	No	No		C	H	T	H	B-4	200	Y
D-IT-4-CK1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No		D	P	T	H	B-4	100	Y
D-IT-4-CK2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No		D	P	T	H	B-4	150	Y
D-IT-4-CK3	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No		D	P	T	H	B-4	200	Y
D-IT-4-CK4	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No		D	P	T	H	B-4	75	Y
D-IT-8-CK1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No		D	P	T	H	B-4	100	Y
D-IT-8-CK2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No		D	P	T	H	B-4	150	Y
D-IT-8-CK3	7	12	TP	PE	0.760	TP	PVC	1.140	No	No		D	P	T	H	B-4	200	Y
D-IT-8-CK4	7	12	TP	PE	0.760	TP	PVC	1.140	No	No		D	P	T	H	B-4	75	Y
D-IT-JPN1-CK1	6	14	TS	0 TBD	TS	0 TBD	Yes	No			E	H	T	H	S	100	Y	
D-IT-JPN1-CK2	6	14	TS	0 TBD	TS	0 TBD	Yes	No			B	P	T	H	S	150	Y	
D-IT-JPN1-CK3	6	14	TS	0 TBD	TS	0 TBD	Yes	No			A	F	T	H	S	200	Y	
D-IT-IP-1-CK3	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No		B	F-P	T	H	S	200	Y
D-IT-IP-1-CK4	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No		B	F-P	T	H	S	75	Y
D-IT-IP-2-CK1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No		D	P	T	H	S	100	Y
D-IT-IP-2-CK2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No		D	P	T	H	S	150	Y
D-P-13-CK1	5	12	TS	FR Ker	1.020	TS	FR Ker	1.650	Yes	No		P	H	T	H	S	100	Y
D-P-13-CK2	10	12	TS	FR Ker	1.020	TS	FR Ker	2.030	Yes	No		P	H	T	H	S	150	Y
D-P-13-qual-CK1	10	12	TS	FR Ker	1.020	TS	FR Ker	2.030	Yes	No		P	H	T	H	S	100	Y
D-P-14-CK1	5	12	TS	FR Ker	1.020	TS	FR Ker	1.650	Yes	No		P	H	T	H	S	100	Y
D-P-14-CK2	10	12	TS	FR Ker	1.020	TS	FR Ker	2.030	Yes	No		P	H	T	H	S	150	Y
D-P-15-CK1	5	12	TS	FR Ker	1.020	TS	FR Ker	1.650	Yes	No		P	H	T	H	S	100	Y

D-P-15-CK2
 D-P-16-CK1
 D-P-16-CK2
 D-P-17-CK1
 D-P-17-CK2
 D-P-17-qual-CK1
 D-P-18-CK1
 D-P-18-CK2
 D-P-19-CK1
 D-P-19-CK2
 E-I-1-CK1
 E-I-1-CK2
 E-I-1-CK3
 E-I-1-CK4
 E-I-13-CK1
 E-I-13-CK2
 E-I-13-CK3
 E-I-13-CK4
 E-I-2-CK1
 E-I-2-CK2
 E-I-2-CK3
 E-I-2-CK4
 E-I-3-CK1
 E-I-3-CK2
 E-I-3-CK3
 E-I-3-CK4
 E-I-5-CK1
 E-I-5-CK2
 E-I-5-CK3
 E-I-5-CK4
 E-I-7-CK1
 E-I-7-CK2
 E-I-7-CK3
 E-I-7-CK4

10	12	TS	FR Ker	1.020	TS	FR Ker	2.030	Yes	No		P	H	T	H	S	150	Y
10	12	TS	FR Ker	1.020	TS	FR Ker	2.030	Yes	No		P	H	T	H	S	100	Y
5	12	TS	FR Ker	1.020	TS	FR Ker	1.650	Yes	No		P	H	T	H	S	150	Y
3	6	TS	HTK Ke	1.400	TS	FR Ker	1.650	No	No		P	H	T	H	S	100	Y
3	6	TS	HTK Ke	1.400	TS	FR Ker	1.650	No	No		P	H	T	H	S	150	Y
3	6	TS	HTK Ke	1.400	TS	FR Ker	1.650	No	No		P	H	T	H	S	100	Y
3	6	TS	HTK Ke	1.400	TS	FR Ker	1.650	No	No		P	H	T	H	S	100	Y
3	6	TS	HTK Ke	1.400	TS	FR Ker	1.650	No	No		P	H	T	H	S	150	Y
8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes		P	H	T	H	S	100	Y
8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes		P	H	T	H	S	150	Y
8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	No	6	H	T	H	2-row	None	Y
8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	No	6	H	T	H	2-row	None	Y
8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	No	6	H	T	H	2-row	None	Y
8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	No	6	H	T	H	2-row	150	Y
8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	No	6	H	T	H	2-row	150	Y
8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	No	6	H	T	H	2-row	150	Y
7	14	TS	XLPE	TBD	TS	CP	TBD	No	No	No	5	P	T	H	2-row	None	Y
7	14	TS	XLPE	TBD	TS	CP	TBD	No	No	No	5	P	T	H	2-row	None	Y
7	14	TS	XLPE	TBD	TS	CP	TBD	No	No	No	5	P	T	H	2-row	None	Y
7	14	TS	XLPE	TBD	TS	CP	TBD	No	No	No	5	P	T	H	2-row	None	Y
7	14	TS	XLPE	TBD	TS	CP	TBD	No	No	No	6	P	T	H	2-row	None	Y
7	14	TS	XLPE	TBD	TS	CP	TBD	No	No	No	6	P	T	H	2-row	None	Y
7	14	TS	XLPE	TBD	TS	CP	TBD	No	No	No	6	P	T	H	2-row	None	Y
7	14	TS	XLPE	TBD	TS	CP	TBD	No	No	No	6	P	T	H	2-row	None	Y
7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	7	H	T	H	2-row	None	Y
7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	7	H	T	H	2-row	None	Y
7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	7	H	T	H	2-row	None	Y
7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	7	H	T	H	2-row	None	Y
7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	H	T	H	2-row	None	Y
7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	H	T	H	2-row	None	Y
7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	H	T	H	2-row	None	Y
7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	H	T	H	2-row	None	Y

E-I-15-CK1	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	H	C	H	S	150	Y
E-I-15-CK2	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	H	T	H	1-row	150	Y
E-I-15-CK3	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	H	T	H	1-row	150	Y
E-I-15-CK4	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	H	T	H	1-row	150	Y
E-I-8-CK1	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	C	H	S	None	Y
E-I-8-CK2	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	3-row	None	Y
E-I-8-CK3	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	3-row	None	Y
E-I-8-CK4	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	3-row	None	Y
E-I-9-CK1	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	1-row	None	Y
E-I-9-CK2	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	1-row	None	Y
E-I-9-CK3	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	1-row	None	Y
E-I-9-CK4	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	1-row	None	Y
E-I-11-CK1	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	4-row	None	Y
E-I-11-CK2	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	4-row	None	Y
E-I-11-CK3	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	4-row	None	Y
E-I-11-CK4	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	4-row	None	Y
E-I-12-CK1	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	C	H	S	150	Y
E-I-12-CK2	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	1-row	150	Y
E-I-12-CK3	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	1-row	150	Y
E-I-12-CK4	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	6	P	T	H	1-row	150	Y
E-I-4-CK1	7	14	TP	TEF	TBD	TP	PVC	TBD	No	No	No	7	P	T	H	2-row	None	Y
E-I-4-CK2	7	14	TP	TEF	TBD	TP	PVC	TBD	No	No	No	7	P	T	H	2-row	None	Y
E-I-4-CK3	7	14	TP	TEF	TBD	TP	PVC	TBD	No	No	No	7	P	T	H	2-row	None	Y
E-I-4-CK4	7	14	TP	TEF	TBD	TP	PVC	TBD	No	No	No	7	P	T	H	2-row	None	Y
E-I-6-CK1	7	14	TP	TEF	TBD	TP	PVC	TBD	No	No	No	7	H	T	H	2-row	None	Y
E-I-6-CK2	7	14	TP	TEF	TBD	TP	PVC	TBD	No	No	No	7	H	T	H	2-row	None	Y
E-I-6-CK3	7	14	TP	TEF	TBD	TP	PVC	TBD	No	No	No	7	H	T	H	2-row	None	Y
E-I-16-CK1	9	12	TP	PE	TBD	TP	PVC	TBD	No	No	No	6	P	T	H	2-row	150	Y
E-I-16-CK2	9	12	TP	PE	TBD	TP	PVC	TBD	No	No	No	6	P	T	H	2-row	150	Y
E-I-16-CK3	9	12	TP	PE	TBD	TP	PVC	TBD	No	No	No	6	P	T	H	2-row	150	Y
E-I-16-CK4	9	12	TP	PE	TBD	TP	PVC	TBD	No	No	No	6	P	C	H	S	150	Y
E-I-10-CK1	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	V	H	T	V	1-row	None	Y
E-I-10-CK2	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	V	H	T	V	1-row	None	Y
E-I-10-CK3	7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	V	H	T	V	1-row	None	Y

E-I-10-CK4
 E-I-17-CK1
 E-I-17-CK2
 E-I-17-CK3
 E-I-17-CK4

7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	V	H	A	V	S	None	Y
9	12	TP	PE	TBD	TP	PVC	TBD	No	No	No	V	H	T	V	1-row	150	Y
9	12	TP	PE	TBD	TP	PVC	TBD	No	No	No	V	H	T	V	1-row	150	Y
7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	V	H	T	V	1-row	150	Y
7	14	TS	EPR	TBD	TS	CSPE	TBD	No	No	No	V	H	T	V	1-row	150	Y

AC MASTER

Transformer (VA)	Wiring Configuration (SC, AB, NAB, GC)	Wiring Configuration (MOV, SOV, CB, Coil)	Single Failure (only one hot short/SA per circuit)	# Hot Shorts (including Spurious Actuations)	# Hot Shorts Possible (including Spurious Actuations)	# Spurious Actuations	# Spurious Actuations Possible	Ground Fault	Multiple Failure	# Total Hot Shorts (including Spurious Actuations)	# Hot Shorts Possible (including Spurious Actuations)	# Spurious Actuations	# Spurious Actuations Possible (including Spurious Actuations)	Ground Fault					
Wiring Configuration (SC, AB, NAB, GC)	Wiring Configuration (MOV, SOV, CB, Coil)	Single Failure (only one hot short/SA per circuit)	# Hot Shorts (including Spurious Actuations)	# Hot Shorts Possible (including Spurious Actuations)	# Spurious Actuations	# Spurious Actuations Possible	Ground Fault	Multiple Failure	# Total Hot Shorts (including Spurious Actuations)	# Hot Shorts Possible (including Spurious Actuations)	# Spurious Actuations	# Spurious Actuations Possible (including Spurious Actuations)	Ground Fault						
# Transformer (VA)	# Total Sources	# Active (SA) Targets	# Passive (HS) Targets	# Grounds	# Neutrals	# Spares	Circuit Type (MOV, SOV, CB, Coil)	Wiring Configuration (SC, AB, NAB, GC)	Single Failure (only one hot short/SA per circuit)	# Hot Shorts (including Spurious Actuations)	# Hot Shorts Possible (including Spurious Actuations)	# Spurious Actuations	# Spurious Actuations Possible	Ground Fault					
Wiring Configuration (SC, AB, NAB, GC)	Wiring Configuration (MOV, SOV, CB, Coil)	Single Failure (only one hot short/SA per circuit)	# Hot Shorts (including Spurious Actuations)	# Hot Shorts Possible (including Spurious Actuations)	# Spurious Actuations	# Spurious Actuations Possible	Ground Fault	Multiple Failure	# Total Hot Shorts (including Spurious Actuations)	# Hot Shorts Possible (including Spurious Actuations)	# Spurious Actuations	# Spurious Actuations Possible (including Spurious Actuations)	Ground Fault						
2	2	1	0	1	1	MOV	SC		1	1	1	1	0		4	4	2	2	0
2	2	1	0	1	1	MOV	SC		1	1	1	1	0		1	4	1	2	0
2	2	1	0	1	1	MOV	SC		1	1	1	1	0		3	4	2	2	0
2	2	1	1	0	1	MOV	SC		1	1	1	1	0		4	4	2	2	0
2	2	1	1	0	1	MOV	SC		0	1	0	1	1		0	4	0	2	1
2	2	1	1	0	1	MOV	SC		1	1	1	1	0		4	4	2	2	0
2	2	1	0	1	1	MOV	SC		1	1	1	1	0		3	4	2	2	0
2	2	1	1	0	1	MOV	SC		0	1	0	1	1		0	4	0	2	1
2	2	1	1	0	1	MOV	SC		1	1	1	1	0		3	4	2	2	0
2	2	1	1	0	1	MOV	SC		1	1	1	1	0		2	4	1	2	0
2	2	1	0	0	0	IC	IC		0	1	0	1	1		0	3	0	2	1
2	2	1	0	0	0	IC	IC		0	1	0	1	1		0	3	0	2	1
2	2	1	1	0	1	MOV	SC		0	1	0	1	1		0	4	0	2	1
2	2	1	0	0	0	IC	IC		0	1	0	1	1		0	3	0	2	1
2	2	1	0	0	0	IC	IC		0	1	0	1	1		0	3	0	2	1
2	2	1	0	0	0	IC	IC		0	1	0	1	1		0	3	0	2	1
2	2	1	0	0	0	IC	IC		0	1	0	1	1		0	3	0	2	1
1	2	0	DRAIN	0	0	AC-1	SC		0	1	0	1	1		0	2	0	2	1
2	2	1	0	0	0	IC	IC		0	1	0	1	1		0	3	0	2	1
2	2	1	0	0	0	IC	IC		0	1	0	1	1		0	3	0	2	1
2	2	1	0	0	0	IC	IC		0	1	0	1	1		0	3	0	2	1

2	2	1	0	0	0	IC	IC	0	1	0	1	1	0	3	0	2	1
2	2	1	0	1	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	0	0	0	IC	IC	0	1	0	1	1	0	3	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	0	0	0	IC	IC	0	1	0	1	1	0	3	0	2	1
2	2	1	0	1	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	2	4	2	2	0
2	2	1	0	1	1	MOV	SC	1	1	1	1	0	2	4	1	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	2	4	1	2	0
2	2	1	0	1	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	1	4	1	2	0
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	0	1	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	2	4	1	2	0
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	0	1	1	MOV	SC	1	1	1	1	0	2	4	1	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	0	1	1	MOV	SC	1	1	1	1	0	4	4	2	2	0

2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	0	1	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	1	4	1	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	2	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	0	1	0	1	4	0	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	1	4	1	2	0
2	2	1	1	0	1	MOV	SC	1	1	0	1	0	2	4	0	2	0
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	1	4	1	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	2	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	0	1	0	1	4	0	2	0
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	0	MOV	SC	0	1	0	1	1	0	3	0	2	1
2	2	1	1	0	0	MOV	SC	1	1	1	1	0	2	3	1	2	0
2	2	1	1	0	0	MOV	SC	0	1	0	1	1	0	3	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	0	1	0	0	MOV	SC	1	1	1	1	0	1	2	1	2	0
5	5	0	0	0	0	MOV-SA+	Alt(s/t	0	1	0	1	1	0	5	0	5	1
5	5	0	0	0	0	MOV-SA+	Alt(s/t	1	1	1	1	0	2	5	1	5	0
2	2	0	1	0	0	MOV	SC	0	1	0	1	1	0	2	0	2	1
5	5	0	0	0	0	MOV-SA+	Alt(s/t	0	1	0	1	1	0	5	0	5	1
2	2	0	1	0	0	MOV-5	Alt(s/t	0	1	0	1	1	0	2	0	2	1

5	5	0	0	0	0	MOV-SA+	Alt(s/t	0	1	0	1	1	0	5	0	5	1
5	5	0	0	0	0	MOV-SA+	Alt(s/t	0	1	0	1	1	0	5	0	5	1
2	2	0	1	0	0	MOV	SC	0	1	0	1	1	0	2	0	2	1
1	2	0	0	0	0	MOV+	SC	1	1	1	1	0	2	2	2	2	0
1	2	0	0	0	0	MOV+	SC	0	1	0	1	1	0	2	0	2	1
1	2	0	0	0	0	MOV+	SC	0	1	0	1	1	0	2	0	2	1
1	2	0	0	0	0	MOV+	SC	0	1	0	1	1	0	2	0	2	1
1	2	0	0	0	0	MOV+	SC	1	1	1	1	0	1	2	1	2	0
2	2	1	1	0	2	MOV	SC-1	0	1	0	1	1	0	5	0	2	1
2	2	1	1	0	2	MOV	SC-1	0	1	0	1	1	0	5	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	CG	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	NAB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	CG	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	NAB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	CG	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	NAB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	AB	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	CG	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	NAB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	CG	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	NAB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	CG	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	AB	1	1	1	1	0	2	4	2	2	0
2	2	1	1	0	1	MOV	NAB	1	1	0	1	0	1	4	0	2	0

2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	CG	1	1	1	1	0	1	4	1	2	0
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	NAB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	2	4	1	2	0
2	2	1	1	0	1	MOV	CG	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	NAB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	CG	1	1	1	1	0	2	4	2	2	0
2	2	1	1	0	1	MOV	AB	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	NAB	1	1	0	1	0	1	4	0	2	0
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	CG	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	NAB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	CG	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	AB	1	1	0	1	0	1	4	0	2	0
2	2	1	1	0	1	MOV	NAB	1	1	0	1	0	1	4	0	2	0
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	CG	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	NAB	1	1	1	1	0	4	4	2	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	CG	1	1	1	1	0	1	4	1	2	0
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	CG	1	1	0	1	0	2	4	0	2	0
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	NAB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	CG	1	1	1	1	0	1	4	1	2	0
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1

2	2	1	1	0	1	MOV	NAB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	SC	1	1	1	1	0	3	4	2	2	0
2	2	1	1	0	1	MOV	CG	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	AB	0	1	0	1	1	0	4	0	2	1
2	2	1	1	0	1	MOV	NAB	0	1	0	1	1	0	4	0	2	1

max	4	5	2	5	1
min	0	2	0	2	0

1	15	17.4	29
		8	4.8
	4.2		14.6
19	22.6	25	23.2
0.2	11.4	8.2	31.4
2.8		23.4	
1	7.4	5	3.4
12.6	7	6.6	25.8
	78.8	121.4	78.8
		2.2	
	453.2	38.2	65.6
224.2	94.6	81.4	100.2
7.6		10	
	3.6	5	
93.6	27.8	228	33.8
20.2	27.4	27.2	27
266.2	320	294.2	296.2
	6.6	10.4	7.6
9	2	19.4	12.8
6	32.6	62.4	33.2

	4.6	40.8	0.8
	28	43.8	56
			18.4
		44.6	0.8
0.4			
			4.2
0.4	3.2		
28.6	192.2	62.2	62.2
			7
43.2	16	47.8	37.8
14.6		47.4	47.4
		95	9.6
	9.4	51.8	32.2
	308.8	55.4	97.6
	238		
5.8			14.6
			0.6

	24	48	30
120	6	120	120
1345		24	18
	18	108	108
		90	84
324			

		198	
	0		
72			126
12	18	60	60
		12	6
	72	120	6
	72		
	12		
54			
144	204	24	60
	198	288	192
			456
18	12		
66		24	54
			6

12		18	120

D - DESIREE
 IT - Intermediate
 Penlight

P -

	Conductor Count	Conductor Size (AWG)	Insulation Type	Insulation Material	Insulation Thickness	Jacket Type	Jacket Material	Jacket Thickness	Cable Shield	Armor	Exposure Location	Exposure Condition	Raceway type	Cable Orientation
MOV														
D-P-7-MOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-7-MOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-8-MOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-8-MOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-12-MOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	T	H
D-P-12-MOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	T	H
D-P-22-MOV1	8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	P	H	T	H
D-P-22-MOV2	8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	P	H	T	H
D-P-25-MOV1	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	P	H	T	H
D-P-25-MOV2	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	P	H	T	H

D-P-27-MOV1	7	12	TS	SR	1.270	TS	Braid	1.020	No	No	P	H	T	H
D-P-27-MOV2	7	12	TS	TEF	1.270	TS	Braid	1.020	No	No	P	H	T	H
D-P-30-MOV1	7	12	TP	TEF	0.410	TP	TEF	0.510	No	No	P	H	T	H
D-P-30-MOV2	7	12	TP	TEF	0.410	TP	TEF	0.510	No	No	P	H	T	H
D-P-33-MOV1	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No	P	H	T	H
D-P-33-MOV2	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No	P	H	T	H
D-P-37-MOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	C	H
D-P-37-MOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	C	H
D-P-41-MOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	C	H
D-P-41-MOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	C	H
D-P-43-MOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	T	H
D-P-43-MOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	T	H
D-P-44-MOV1	9	14	TS	FR Kerite	1.270	TS	FR Kerite	1.650	No	No	P	H	T	H
D-P-44-MOV2	9	14	TS	FR Kerite	1.270	TS	FR Kerite	1.650	No	No	P	H	T	H
D-P-49-MOV1	9	14	TS	FR Kerite	1.270	TS	FR Kerite	1.650	No	No	P	H	T	H
D-P-49-MOV2	9	14	TS	FR Kerite	1.270	TS	FR Kerite	1.650	No	No	P	H	T	H
D-P-50-MOV1	9	14	TS	FR Kerite	1.270	TS	FR Kerite	1.650	No	No	P	H	T	H
D-P-50-MOV2	9	14	TS	FR Kerite	1.270	TS	FR Kerite	1.650	No	No	P	H	T	H
D-P-JPN3-MOV1	6	14	Unkmown	Unkmown	Unkmown	Unkmown	Unkmown	Unkmown	Unkn	Unkn	P	H	T	H
D-P-JPN3-MOV2	6	14	Unkmown	Unkmown	Unkmown	Unkmown	Unkmown	Unkmown	Unkn	Unkn	P	H	T	H
D-IT-P2-MOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	A	F	T	H
D-IT-P2-MOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	E	H	T	H
D-IT-1-MOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	B	P	C	H
D-IT-1-MOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	D	P	T	H
D-IT-2-MOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	C	H	T	H
D-IT-2-MOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	A	F	T	H
D-IT-3-MOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	D	P	T	H
D-IT-3-MOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	B	P	T	H
D-IT-4-MOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	A	F	T	H
D-IT-4-MOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	C	H	T	H
D-IT-5-MOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	B	P	C	H
D-IT-5-MOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	D	P	T	H
D-IT-6-MOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	C	H	T	H
D-IT-6-MOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	A	F	T	H

D-IT-7-MOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	B	P	T	H
D-IT-7-MOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	D	P	T	H
D-IT-8-MOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	A	F	T	H
D-IT-8-MOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	C	H	T	H
D-IT-9-MOV1	10	12	TS	FR Kerite	1.020	TS	FR Kerite	2.030	Yes	No	B	P	T	H
D-IT-9-MOV2	8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	D	P	T	H
D-IT-10-MOV1	9	14	TS	FR Kerite	1.270	TS	FR Kerite	1.650	No	No	C	H	T	H
D-IT-10-MOV2	10	12	TS	FR Kerite	1.020	TS	FR Kerite	2.030	Yes	No	B	P	T	H
D-IT-11-MOV1	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	B	P	T	H
D-IT-11-MOV2	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	D	P	T	H
D-IT-12-MOV1	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	D	P	T	H
D-IT-12-MOV2	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	B	P	T	H
SOV														
D-P-1-SOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-1-SOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-2-SOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-2-SOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-9-SOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	T	H
D-P-9-SOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	T	H
D-P-20-SOV1	8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	P	H	T	H
D-P-20-SOV2	8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	P	H	T	H
D-P-23-SOV1	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	P	H	T	H
D-P-23-SOV2	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	P	H	T	H
D-P-26-SOV1	7	12	TS	TEF	1.270	TS	Braid	1.020	No	No	P	H	T	H
D-P-26-SOV2	7	12	TS	TEF	1.270	TS	Braid	1.020	No	No	P	H	T	H
D-P-28-SOV1	7	12	TP	TEF	0.410	TP	TEF	0.510	No	No	P	H	T	H
D-P-28-SOV2	7	12	TP	TEF	0.410	TP	TEF	0.510	No	No	P	H	T	H
D-P-31-SOV1	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No	P	H	T	H
D-P-31-SOV2	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No	P	H	T	H
D-P-34-SOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	C	H
D-P-34-SOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	C	H
D-P-38-SOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	C	H
D-P-38-SOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	C	H
D-IT-P2-SOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	A	F	T	H

D-IT-P2-SOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	E	H	T	H
D-IT-1-SOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	B	P	C	H
D-IT-1-SOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	D	P	T	H
D-IT-2-SOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	C	H	T	H
D-IT-2-SOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	A	F	T	H
D-IT-3-SOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	D	P	T	H
D-IT-3-SOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	B	P	T	H
D-IT-4-SOV1	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	A	F	T	H
D-IT-4-SOV2	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	C	H	T	H
D-IT-5-SOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	B	P	C	H
D-IT-5-SOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	D	P	T	H
D-IT-6-SOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	C	H	T	H
D-IT-6-SOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	A	F	T	H
D-IT-7-SOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	B	P	T	H
D-IT-7-SOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	D	P	T	H
D-IT-8-SOV1	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	A	F	T	H
D-IT-8-SOV2	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	C	H	T	H
D-IT-9-SOV1	10	12	TS	FR Kerite	1.020	TS	FR Kerite	2.030	Yes	No	B	P	T	H
D-IT-9-SOV2	8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	D	P	T	H
D-IT-10-SOV1	9	14	TS	FR Kerite	1.270	TS	FR Kerite	1.650	No	No	C	H	T	H
D-IT-10-SOV2	10	12	TS	FR Kerite	1.020	TS	FR Kerite	2.030	Yes	No	B	P	T	H
D-IT-11-SOV1	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	B	P	T	H
D-IT-11-SOV2	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	D	P	T	H
D-IT-12-SOV1	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	D	P	T	H
D-IT-12-SOV2	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	B	P	T	H
1 Inch Valve														
D-P-5-1"Vlv	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-6-1"Vlv	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-11-1"Vlv	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	T	H
D-P-36-1"Vlv	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-40-1"Vlv	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	C	H
D-IT-P1-1"Vlv	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	E	H	T	H
D-IT-1-1"Vlv	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	B	P	T	H
D-IT-2-1"Vlv	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	C	H	T	H

D-IT-3-1"Vlv	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	D	P	T	H
D-IT-4-1"Vlv	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	A	F	T	H
D-IT-5-1"Vlv	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	B	P	T	H
D-IT-6-1"Vlv	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	C	H	T	H
D-IT-7-1"Vlv	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	B	P	C	H
D-IT-8-1"Vlv	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	A	F	T	H
D-IT-9-1"Vlv	8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	B	P	T	H
D-IT-10-1"Vlv	7	12	TS	FR Kerite	1.020	TS	FR Kerite	1.650	Yes	No	D	P	T	H
D-IT-11-1"Vlv	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	B	P	T	H
D-IT-12-1"Vlv	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	D	P	T	H
PORV														
D-P-5-lrgCl	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-6-lrgCl	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-11-lrgCl	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	T	H
D-P-36-lrgCl	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-40-lrgCl	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	C	H
D-IT-P1-LrgCl	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	E	H	T	H
D-IT-1-LrgCl	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	B	P	T	H
D-IT-2-LrgCl	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	C	H	T	H
D-IT-3-LrgCl	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	D	P	T	H
D-IT-4-LrgCl	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	A	F	T	H
D-IT-5-LrgCl	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	B	P	T	H
D-IT-6-LrgCl	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	C	H	T	H
D-IT-7-LrgCl	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	B	P	C	H
D-IT-8-LrgCl	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	A	F	T	H
D-IT-9-LrgCl	8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	B	P	T	H
D-IT-10-LrgCl	9	14	TS	FR Kerite	1.270	TS	FR Kerite	1.650	No	No	D	P	T	H
D-IT-11-LrgCl	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	B	P	T	H
D-IT-12-LrgCl	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	D	P	T	H
TRIP														
D-P-3-Trp	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-4-Trp	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-10-Trp	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	T	H
D-P-21-Trp	8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	P	H	T	H

D-P-24-Trp	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	P	H	T	H
D-P-29-Trp	7	12	TP	TEF	0.410	TP	TEF	0.510	No	No	P	H	T	H
D-P-32-Trp	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No	P	H	T	H
D-P-35-Trp	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	C	H
D-P-39-Trp	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	C	H
D-P-42-Trp	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-JPN2-Trp	6	14	Unkmown	Unkmown	Unkmown	Unkmown	Unkmown	Unkmown	Unkn	Unkn	P	H	T	H
D-IT-P1-Trp	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	B	P	T	H
D-IT-1-Trp	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	D	P	T	H
D-IT-3-Trp	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	B	P	C	H
D-IT-4-Trp	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	E	H	T	H
D-IT-5-Trp	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	D	P	T	H
D-IT-6-Trp	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	B	P	C	H
D-IT-7-Trp	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	D	P	T	H
D-IT-9-Trp	8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	D	P	T	H
D-IT-10-Trp	15	12	TS	FR Kerite	1.524	TS	FR Kerite	2.030	Yes	No	B	P	T	H
D-IT-C1-Trp	7	12	TS	XLPO	0.510	TS	XLPO	0.890	No	No	B	P	T	H
D-IT-C2-Trp	7	12	TP	TEF	0.410	TP	TEF	0.510	No	No	B	P	T	H
CLOSE														
D-P-3-Cls	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-4-Cls	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-10-Cls	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	T	H
D-P-21-Cls	8	12	TS	XLPE	1.143	TP	PVC	1.270	No	Yes	P	H	T	H
D-P-24-Cls	7	12	TS	EPR	0.760	TBD	CPE	1.520	No	No	P	H	T	H
D-P-29-Cls	7	12	TP	TEF	0.410	TP	TEF	0.510	No	No	P	H	T	H
D-P-32-Cls	7	12	TP	PVC	0.510	TP	PVC	1.140	No	No	P	H	T	H
D-P-35-Cls	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	C	H
D-P-39-Cls	7	12	TP	PE	0.760	TP	PVC	1.140	No	No	P	H	C	H
D-P-42-Cls	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	P	H	T	H
D-P-JPN1-Cls	6	14	Unkmown	Unkmown	Unkmown	Unkmown	Unkmown	Unkmown	Unkn	Unkn	P	H	T	H
D-P-JPN2-Cls	6	14	Unkmown	Unkmown	Unkmown	Unkmown	Unkmown	Unkmown	Unkn	Unkn	P	H	T	H
D-IT-P1-Cls	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	B	P	T	H
D-IT-1-Cls	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	D	P	T	H
D-IT-3-Cls	7	12	TS	XLPE	0.760	TS	CSPE	1.520	No	No	B	P	C	H

	Raceway fill																	
	Fuse Size (A)	Circuit Grounding	# Total Sources	# Active (SA) Targets	# Passive (HS) Targets	# Grounds	# Neutrals	# Spares	Circuit Type (1-MOV, 2-SOV, 3-One Inch Valve, 4-PORV, 5-Trip, 6-Close)	Wiring Configuration (SC, AB, NAB, GC)	Single Failure (only one hot short/SA per circuit) Global Approach	# Hot Shorts (including Spurious Actuations)	# Hot Shorts Possible (including Spurious Actuations)	# Spurious Actuations	# Spurious Actuations Possible	Fuse Clear		
S	10	N	2	2	1	0	1	1	1	SC		1	1	1	1	0		
S	10	N	2	2	1	0	1	1	1	SC		1	1	0	1	0		
S	10	N	2	2	1	0	1	1	1	SC		1	1	1	1	0		
S	10	N	2	2	1	0	1	1	1	SC		1	1	0	1	0		
S	10	N	2	2	1	0	1	1	1	SC		1	1	1	1	0		
S	10	N	2	2	1	0	1	1	1	SC		0	1	0	1	1		
S	10	N	2	2	1	0	1	1	1	SC		1	1	1	1	0		
S	10	N	2	2	1	0	1	1	1	SC		1	1	1	1	0		
S	10	N	2	2	1	0	1	1	1	SC		1	1	1	1	0		
S	10	N	2	2	1	0	1	1	1	SC		1	1	1	1	0		

S	10	N	2	2	1	0	1	1	1	SC	0	1	0	1	0
S	10	N	2	2	1	0	1	1	1	SC	0	1	0	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
M	10	N	2	2	1	0	1	1	1	SC	0	1	0	1	1
M	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
B	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
B	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
M	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
B	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
M	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
M	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
B	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
S	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
B	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
B	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0
M	10	N	2	2	1	0	1	1	1	SC	1	1	1	1	0

M	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
B	10	N	2	2	1	0	1	1	1	SC	0	1	0	1	1
M	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
B	10	N	2	2	1	0	1	1	1	SC	0	1	0	1	1
M	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
B	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
B	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
M	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
M	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
B	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
B	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
M	10	N	2	2	1	0	1	1	1	SC	1	1	0	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	0	1	0	1	0
S	5	N	3	1	1	0	1	1	2	SC	0	1	0	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	0	1	0	1	1
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
M	5	N	3	1	1	0	1	1	2	SC	0	1	0	1	1

M	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
S	5	N	3	1	1	0	1	1	2	SC	0	1	0	1	1
B	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
B	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
M	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
B	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
M	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
M	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
B	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
S	5	N	3	1	1	0	1	1	2	SC	0	1	0	1	1
B	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
B	5	N	3	1	1	0	1	1	2	SC	0	1	0	1	1
M	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
M	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
B	5	N	3	1	1	0	1	1	2	SC	0	1	0	1	1
M	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
B	5	N	3	1	1	0	1	1	2	SC	0	1	0	1	1
M	5	N	3	1	1	0	1	1	2	SC	1	1	1	1	0
M	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
B	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
M	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
M	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
B	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
B	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
M	5	N	3	1	1	0	1	1	2	SC	1	1	0	1	0
S	5	N	2	1	1	0	2	1	3	SC	1	1	1	1	0
S	5	N	2	1	1	0	2	1	3	SC	1	1	1	1	0
S	5	N	2	1	1	0	2	1	3	SC	1	1	1	1	0
S	5	N	2	1	1	0	2	1	3	SC	1	1	1	1	0
S	5	N	2	1	1	0	2	1	3	SC	1	1	1	1	0
M	5	N	2	1	1	0	2	1	3	SC	0	1	0	1	1
M	5	N	2	1	1	0	2	1	3	SC	1	1	1	1	0
B	5	N	2	1	1	0	2	1	3	SC	1	1	0	1	0

B	5	N	2	1	1	0	2	1	3	SC		1	1	0	1	0
M	5	N	2	1	1	0	2	1	3	SC		1	1	1	1	0
M	5	N	2	1	1	0	2	1	3	SC		0	1	0	1	1
B	5	N	2	1	1	0	2	1	3	SC		1	1	1	1	0
S	5	N	2	1	1	0	2	1	3	SC		1	1	1	1	0
M	5	N	2	1	1	0	2	1	3	SC		0	1	0	1	1
M	5	N	2	1	1	0	2	1	3	SC		1	1	1	1	0
B	5	N	2	1	1	0	2	1	3	SC		1	1	1	1	0
B	5	N	2	1	1	0	2	1	3	SC		1	1	1	1	0
B	5	N	2	1	1	0	2	1	3	SC		1	1	0	1	0
S	10	N	2	1	1	0	2	1	4	SC		1	1	1	1	0
S	10	N	2	1	1	0	2	1	4	SC		1	1	0	1	0
S	10	N	2	1	1	0	2	1	4	SC		1	1	1	1	0
S	10	N	2	1	1	0	2	1	4	SC		0	1	0	1	1
S	10	N	2	1	1	0	2	1	4	SC		1	1	1	1	0
M	10	N	2	1	1	0	2	1	4	SC		0	1	0	1	0
M	10	N	2	1	1	0	2	1	4	SC		1	1	0	1	0
B	10	N	2	1	1	0	2	1	4	SC		1	1	0	1	0
B	10	N	2	1	1	0	2	1	4	SC		1	1	0	1	0
M	10	N	2	1	1	0	2	1	4	SC		1	1	0	1	0
M	10	N	2	1	1	0	2	1	4	SC		1	1	1	1	0
B	10	N	2	1	1	0	2	1	4	SC		0	1	0	1	1
S	10	N	2	1	1	0	2	1	4	SC		0	1	0	1	1
M	10	N	2	1	1	0	2	1	4	SC		1	1	1	1	0
M	10	N	2	1	1	0	2	1	4	SC		1	1	1	1	0
B	10	N	2	1	1	0	2	1	4	SC		1	1	0	1	0
B	10	N	2	1	1	0	2	1	4	SC		1	1	1	1	0
B	10	N	2	1	1	0	2	1	4	SC		1	1	0	1	0
S	35	N	1	1	2	0	1	3	5	SC		1	1	0	1	0
S	35	N	1	1	2	0	1	3	5	SC		1	1	1	1	0
S	35	N	1	1	2	0	1	3	5	SC		1	1	0	1	0
S	35	N	1	1	2	0	1	3	5	SC		1	1	0	1	0

S	35	N	1	1	2	0	1	3	5	SC	1	1	0	1	0
S	35	N	1	1	2	0	1	3	5	SC	1	1	0	1	0
S	35	N	1	1	2	0	1	3	5	SC	1	1	1	1	0
S	35	N	1	1	2	0	1	3	5	SC	1	1	0	1	0
S	35	N	1	1	2	0	1	3	5	SC	1	1	0	1	0
S	35	N	1	1	2	0	1	3	5	SC	1	1	1	1	0
S	35	N	1	1	2	0	1	3	5	SC	1	1	0	1	0
M	35	N	1	1	2	0	1	3	5	SC	1	1	0	1	0
B	35	N	1	1	2	0	1	2	5	SC	1	1	0	1	0
S	35	N	1	1	2	0	1	2	5	SC	1	1	0	1	0
B	35	N	1	1	2	0	1	3	5	SC	1	1	0	1	0
B	35	N	1	1	2	0	1	2	5	SC	1	1	0	1	0
S	35	N	1	1	2	0	1	2	5	SC	1	1	1	1	0
B	35	N	1	1	2	0	1	2	5	SC	1	1	1	1	0
M	35	N	1	1	2	0	1	2	5	SC	1	1	1	1	0
M	35	N	1	1	2	0	1	3	5	SC	1	1	1	1	0
M	35	N	1	1	2	0	1	3	5	SC	1	1	1	1	0
M	35	N	1	1	2	0	1	3	5	SC	1	1	1	1	0
S	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0
S	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0
S	15	N	1	1	1	0	1	0	6	SC	0	1	0	1	1
S	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0
S	15	N	1	1	1	0	1	0	6	SC	0	1	0	1	1
S	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0
S	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0
S	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0
S	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0
S	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0
S	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0
S	15	N	1	1	1	0	1	0	6	SC	0	1	0	1	1
S	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0
S	15	N	1	1	1	0	1	0	6	SC	0	1	0	1	1
M	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0
B	15	N	1	1	1	0	1	0	6	SC	0	1	0	1	1
S	15	N	1	1	1	0	1	0	6	SC	1	1	1	1	0

Target Approach	# Hot Shorts (including Spurious Actuations)	# Hot Shorts Possible (including Spurious Actuations)	# Spurious Actuations	# Spurious Actuations Possible	Fuse Clear	HS DurationTarget 1	HS DurationTarget 2	HS DurationTarget 3	HS DurationTarget 4	HS DurationTarget 5	HS DurationTarget 6	HS DurationTarget 7
	3	7	1	2	1	37				12		
	1	7	0	2	1					49		
	3	7	1	2	1	12				47		
	3	7	0	2	1	23		7		33		
	5	7	1	2	1	203	608	734		171		
	0	7	0	2	1							
	4	7	1	2	1	36		36		1		
	6	7	2	2	1	43	2	41	2			
	4	7	1	2	1	11			11	62		
	5	7	2	2	1			6	1	92		

0	7	0	2	0							
0	7	0	2	0							
3	7	1	2	1		119	483				
4	7	1	2	1			1433	6	290		
4	7	0	2	0			16	2	43		
3	7	1	2	0	1		1				
2	7	1	2	1				31			
5	7	1	2	1		9	1		11		
5	7	1	2	1	67		62	1	45		
4	7	2	2	0			43		1		
7	7	2	2	1	10	63	14	10	22		
7	7	2	2	1	5658	256	6313	9	3468		
4	7	1	2	1	1195			1193	7509		
4	7	1	2	1			306		8545		
3	7	1	2	0	14				3607		
3	7	1	2	0			1		3687		
3	7	0	2	1		25			696		
3	7	1	2	1		17			618		
2	7	1	2	1		183					
3	7	1	2	1			194	1			
0	7	0	2	1							
2	7	0	2	1	377				116		
3	7	0	2	1	56		44		177		
4	7	1	2	1	9			9	521		
4	7	1	2	1	38		115		831		
7	7	2	2	0	28	2	35	5	96		
3	7	1	2	1	3				285		
7	7	2	2	1	46	2	28	2	33		
3	7	1	2	1	38				97		
2	7	0	2	1		7			351		
4	7	1	2	1	12		12		35		
5	7	1	2	1	57	2		57	54		
1	7	1	2	1							
1	7	1	2	1							

1	7	0	2	1		21					
0	7	0	2	1							
2	7	0	2	1	97			93			
0	7	0	2	1							
3	7	0	2	1	22			9	224		
2	7	0	2	1	28				172		
2	7	0	2	0	67				457		
3	7	0	2	1	18			18	193		
2	7	0	2	1			16	20			
1	7	0	2	1					595		
1	7	0	2	1					76		
2	7	0	2	1		182			470		
2	3	0	1	1		32	8				
3	3	1	1	1		17	59				
2	3	0	1	1		43	59				
3	3	1	1	1		8	1				
1	3	1	1	1							
2	3	1	1	1		360					
2	3	1	1	1		42					
2	3	1	1	1		31					
3	3	1	1	1		4	113				
2	3	0	1	1		3	90				
0	3	0	1	0							
0	3	0	1	0							
2	3	0	1	1		425	39				
2	3	1	1	1		93					
3	3	1	1	1		84	66				
0	3	0	1	1							
3	3	1	1	1		59	83				
1	3	0	1	1		12					
1	3	0	1	0			143				
2	3	1	1	0		1049					
0	3	0	1	1							

2	3	0	1	1		165	65				
0	3	0	1	1							
3	3	1	1	1		33	667				
2	3	1	1	1			675				
3	3	1	1	1		68	12				
2	3	1	1	1			244				
2	3	0	1	1		24	34				
2	3	0	1	1		2	3				
2	3	1	1	1			388				
0	3	0	1	1							
2	3	1	1	1			59				
0	3	0	1	1							
1	3	0	1	1		24					
1	3	1	1	1							
0	3	0	1	1							
3	3	1	1	1		83	2				
0	3	0	1	1							
3	3	1	1	1		260	414				
1	3	0	1	1			172				
2	3	0	1	1		18	96				
2	3	0	1	1		7	7				
1	3	0	1	1			237				
2	3	0	1	1		5	724				
1	3	0	1	1			134				
1	3	0	1	1			337				
				0							
4	4	1	1	1		11	49		62		
2	4	1	1	1					14		
4	4	1	1	1		699	33		96		
1	4	1	1	1							
2	4	1	1	0					4		
0	2	0	1	1							
2	2	1	1	1			18				
1	2	0	1	0			855				

1	2	0	1	1		371					
2	2	1	1	1		5					
0	2	0	1	1							
2	2	1	1	1		31					
2	2	1	1	1		88					
0	2	0	1	1							
1	2	1	1	1							
2	2	1	1	1		740					
1	2	1	1	1							
1	2	0	1	1		154					
				0							
3	3	1	1	1	9		39				
1	3	0	1	1			20				
3	3	1	1	1	923		46				
0	3	0	1	1							
3	3	1	1	1	115		868				
0	3	0	1	0							
2	3	0	1	1		98		68			
1	3	0	1	0				1143			
2	3	0	1	1		14		260			
1	3	0	1	1				76			
2	3	1	1	1		43					
0	3	0	1	1							
0	3	0	1	1							
2	3	1	1	1		124					
2	3	1	1	1		26					
2	3	0	1	1		14		871			
1	2	1	1	1							
1	3	0	1	1				75			
				0							
4	6	0	1	1		41	32	89	88		
6	6	1	1	0	33	759	313	1093	1085		
5	6	0	1	0	337	858	1229	1566	1565		
3	6	0	1	1		246		212	213		

5	6	0	1	1	43	119	29	719	577		
5	6	0	1	1	17	31	27	72	72		
6	6	1	1	1	13	10	12	29	28		
4	6	0	1	1	46	3		45	27		
5	6	0	1	1	1434	143	1569	2305	1911		
6	6	1	1	1	38	47	74	120	120		
5	6	0	1	0	5	138	926	1082	295		
5	6	0	1	1	19	51	36	134	132		
5	6	0	1	0	81	340	2194	2588	2502		
5	6	0	1	0	91	1042	1045	2763	2804		
5	6	0	1	0	9	1052	1086	4871	4869		
5	6	0	1	0	26	135	1400	2073	2077		
6	6	1	1	1	5	209	348	1567	1567		
5	6	1	1	1	35		252	1083	1089		
5	6	1	1	0		7	880	2590	2511		
5	6	1	1	0	42	63		2817	2873		
6	6	1	1	0	25	26	569	589	601		
5	6	1	1	1	2		3	6	6		
				0							
2	2	1	1	1	13						
2	2	1	1	1	4						
0	2	0	1	1							
1	2	1	1	1							
0	2	0	1	1							
2	2	1	1	1	1397						
2	2	1	1	1	1						
2	2	1	1	1	87						
0	2	0	1	1							
1	2	1	1	1							
2	2	1	1	0	65						
0	2	0	1	1							
1	2	1	1	1							
0	2	0	1	1							
2	2	1	1	1	10						

HS/SA DurationTarget 1							
HS/SA DurationTarget 2							
HS/SA DurationTarget 3							
HS/SA DurationTarget 4				36			
HS/SA DurationTarget 5				10			
HS/SA DurationTarget 6				203			
HS/SA DurationTarget 7				36			
		4		42			
		11					
		3		5			



			91			
			1427			
			1			
		31				
		16				
			54			
		99	431			
		10	95			
		28	6417			
		1195				
			306			
		7				
			1			
		24				
			235			
			193			
		46				
			115			
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	98					
		90				
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