

Base year:

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	MODEL/ STYLE #	UL / CSA #	SO / GO #	SYSTEM VOLTAGE	RATED VOLTAGE	RATTED CURENT	RATED NEUTRAL
Switchboard / Switchgear	Bldg 111	SG-1LS	SG-1LS	Switchgear SG-1LS	Eaton	Magnum	F-941124	MMK03405 ITEM 026	480	480/277	2000	2000
Switchboard / Switchgear	Bldg 111	SG-1N	SG-1N	Switchgear SG-1N	Eaton	Magnum	F-941090	MMK03405 ITEM 022	480	480/277	2000	2000
Switchboard / Switchgear	Bldg 111	SG-2CR	SG-2CR	N/A	Eaton	85	F-941178	MMK03405	480 277	480 277	2000	2000
Switchboard / Switchgear	Bldg 111	SG-3EQ	SG-3EQ	SG-3EQ	Eaton	Magnum DS	F-941192,93,94,95	MMK03405028	480Y/277	480	2000	2000
Switchboard / Switchgear	Bldg 111	SG-4EQ	SG-4EQ	SG-4EQ	Eaton	Magnum DS	F-941196,97,98,99	MMK03405029	480Y/277	480	2000	2000
Switchboard / Switchgear	Bldg 111	SG-4N	SG-4N	SG-4N	Eaton	Magnum DS	F-941121	MMK03405 Item 025	480	480/277	2000	2000

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	CLASS CODE	SYSTEM VOLTAGE	RATED VOLTAGE	BUS AMPS	GROUND SIZE	NEUTRAL SIZE
Panelboard	Bldg 111	SG-1LS	EDH-106-LS-1	EDH-106-LS-1	Cutler-Hammer	N/A	480	480Y	1600	N/A	1600
Panelboard	Bldg 111	SG-1LS	EDH-108-LS-6	EDH-108-LS-6	Siemens	6	480	480Y	1200	N/A	1200
Panelboard	Bldg 111	SG-1LS	EDH-LS-B01-1	EDH-LS-B01-1	Eaton	N/A	480Y/277	N/A	400	N/A	N/A
Panelboard	Bldg 111	SG-1LS	EPH-LS-B02-1	EPH-LS-B02-1	GE	N/A	480	480	400	N/A	N/A
Panelboard	Bldg 111	SG-1N	DL-B04-2	DL-B04-2	Cutler-Hammer	N/A	208/120Y	208	1200	N/A	N/A
Panelboard	Bldg 111	SG-2CR	EDH-204-CR-5	PB, EDH-204-CR-5	Cutler-Hammer	N/A	480	600	1600	4" Bus	1600
Panelboard	Bldg 111	SG-2CR	EDH-211-CR-7	EDH-211-CR-7	Eaton	N/A	480Y/277	480	800	3/0	500KCM
Panelboard	Bldg 111	SG-2CR	EDH-212-CR-2	PB, EDH-212-CR-2	Cutler-Hammer	N/A	480	600	1600	4" Bus	1600
Panelboard	Bldg 111	SG-2CR	EPH-CR-B02-1	EPH-CR-B02-1	Square D	N/A	480Y/277	600	800	1/0	500KCM
Panelboard	Bldg 111	SG-2CR	EPH-CR-B02-2	EPH-CR-B02-2	GE	N/A	480	480	800	N/A	N/A
Panelboard	Bldg 111	SG-2CR	EPL-CR-B02-1	EPL-CR-B02-1	Square D	N/A	208Y/120	208	600	N/A	N/A
Panelboard	Bldg 111	SG-2N	DH-B01-1	DH-B01-1	Eaton	PRL4B	N/A	208/120	1200	N/A	1200
Panelboard	Bldg 111	SG-2N	DH-B02-4	DH-B02-4	Eaton	N/A	480/277	480	800	N/A	N/A
Panelboard	Bldg 111	SG-2N	DL-B01-1	DL-B01-1	Eaton	N/A	N/A	480/277	2000	N/A	2000
Panelboard	Bldg 111	SG-3EQ	EDH-3	EDH-3, EDH-304-Q-3	Cutler-Hammer	N/A	480Y/277	480	1600	1/4X2 Bus	1600Amp
Panelboard	Bldg 111	SG-3EQ	EDH-307-Q-4	EDH-307-Q-4	Cutler-Hammer	N/A	480Y/277	480	1600	1/4X2 Bus	1600
Panelboard	Bldg 111	SG-3EQ	EPH-Q-24-1	EPH-Q-24-1	Square D	N/A	480/277	600	N/A	N/A	N/A
Panelboard	Bldg 111	SG-4EQ	EPH-Q-110-4	EPH-Q-110-4	Eaton	N/A	480Y/277	480	400	N/A	400
Panelboard	Bldg 111	SG-4N	DH-B02-3	DH-B02-3	Square D	N/A	480/277	480	1200	N/A	N/A
Panelboard	Bldg 111	SG-4N	DH-B05-1	DH-B05-1		N/A	480/277	N/A	N/A	N/A	N/A
Panelboard	Bldg 111	SG-4B	DL-B05-2	DL-B05-2	Westinghouse	N/A	120/208	208	1600	N/A	N/A
Panelboard	Bldg 111	SG-4N	DL-B06-1	DL-B06-1	Westinghouse	N/A	120/208	208	1600	N/A	N/A
Panelboard	Bldg 70	Sub B/A	MDP-70 B/A	DMP 70-A	Cregier Electric Mfg.	N/A	120/208	120/208	800	N/A	(2) 500 MCM
Panelboard	Bldg 70	Sub B/A	SB-DL-BBN-1	SB-DL-BBN-1	Eaton	N/A	120/208	120/208	600	N/A	350 MCM

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/FEEDER ID	MANUFACTURER	MODEL/ STYLE #	SERIAL / I.B. NUMBER	UL/ CSA #	PHASE	KVA	NUMBER OF FEEDERS / TAPS	PRIMARY VOLTS	SECONDARY VOLTS
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	1167	Cutler-Hammer	DT-3	J00H0122		3	15	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	1608EC	Cutler-Hammer	DT-3	J00H0164		3	45	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	2450	Westinghouse	DT-3	64A10200		3	113	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	2611	GE	QL	N/A	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	3448EC	Eaton	DT-3	J11B50644	AA	3	30	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	9126EC	Eaton	DT-3	J10J05504		3	30	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	9531A EC	Eaton	DT-3	N/A		3	15	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	EQT-1 2474A EC	Square D	SO	79T522C	AA	3	75	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	EQT-10 2454 EC	Eaton	DT-3	J0D02383	OA	3	75	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	EQT-13 2450 MER 4	Westinghouse	DT-3	64A10194	AA	3	113	5	480	205 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	EQT-2 3474A EC	Square D	SO	79T522C	AA	3	75	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	MCC-1	Square D	SO	N/A	AA	3	45	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	T-4 B0448 EC	Westinghouse	DT-3	63E6735	AA	3	75	1	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	T-1 1601A	Cutler-Hammer	KT-4	J0010048	AA	3	75	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	T-1 2600G	Cutler-Hammer	DT-3	J97L0091	AA	3	75	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	T-1 8620 EC	Sorgel	SO	79TS22C	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	T-1 B0447-EC DH-B02-2/500	Square D	75T3H		AA	3	75	1	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	T-17 9407	Westinghouse	DT-3	63L2		3	45	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XFMR T-5 B0301 EC	Eaton	DT-3	J08M05845	AA	3	300	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	T-7 B0504 EC	Westinghouse	DT-3	63E6737		3	300	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	T-6 B0531	Westinghouse	DT-3	63J4934		3	500	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	T-8 B0602 EC	Westinghouse	DT-3	63J4921		3	500	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	UL 14-1	Square D	75T3H		AA	3	75	1	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	UL 14-5 Retail Store	Square D	75T3H		AA	3	75	1	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	V17	Square D	SO	N/A	AA	3	15	7	480	208 / 120

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Dry Type Transformer	Bldg 111	Bldg 111	Transformers	V24	Eaton		J03G10419		1	10	1	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-19 B0602	Square D			AA	3	225	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-23 2429 EC	Westinghouse		64A15		3	225	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-26 B0531	Westinghouse	DT-3	J90K0373	AA	3	75	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-29 B0602	Cutler-Hammer	DT-3	J87L2596	AA	3	75	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-32 1167	Cutler-Hammer	DT-3	J00H0206	AA	3	75	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-38 2454	Eaton	DT-3	J08D07020	AA	3	75	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-42 5623	Eaton	DT-3	J12B00757	AA	3	75	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-43 6527 EC	Eaton	DT-3	J12L01820	AA	3	75	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-44 6625	Eaton	DT-3	J12B00929	AA	3	75	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-54 2450	Siemens	Dry	N/A	ANN	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-59 9632A	Eaton	DT-3	J04J06574	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-60 9531A	Eaton	DT-3	J04K05355	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-61 9226 EC	Eaton	DT-3	J10J05027	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-71 2450	GE		1475A382CBG001	AA	3	30	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-75 5428 EC	Sorgel	SO		AA	3	30	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-87 1107	Westinghouse	DT-3	J09J1165	AA	3	15	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-92 10523	Square D	SO	32749-17212-013	AA	3	15	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-EQT-11 1167 EC	Cutler-Hammer	DT-3	J00H0115	OA	3	30	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	XF-T9 B0602 EC	Westinghouse	DT-3	6304144	OA	3	225	5	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	EQT-1 B0250	Square D	Distribution	EE75T3H	AA	3	75	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	EQT-18 10330	Westinghouse	Distribution	64B5479	AA	3	30	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	EQT-2 MER 8	Eaton	Distribution	J12B51643	AA	3	30	7	480	208 / 120
Dry Type Transformer	Bldg 111	Bldg 111	Transformers	EQT-9 MER 9	Eaton	Distribution	J11K0674R	AA	3	30	7	480	208 / 120

TYPE	PLANT	SUBSTATION	CIRCUIT DESIGNATION	DEVICE / FEEDER ID	MANUFACTURER	TYPE	VOLTS	FRAM AMP	TRIP AMP	MANUFACTURER	TYPE	INTERUPT RATING	# OF POLES
Solid State		Replacement Breaker Testing		2	Eaton	HKD3400F	600	400				65 <iloAmps @ 480 VAC	3
Solid State													3
Solid State		Replacement Breaker Testing		3	Eaton	HKD3400F	600	400				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	Spare	Cutler-Hammer	HLD3600F	600	600				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	Elev9-10B	Cutler-Hammer	HND3800F	600	800				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	EDH-LS-B01-1	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	Spare	Cutler-Hammer	HND3800T36W	600	800				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	Spare	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	EDH-LS-B113-1	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	ELEV1-3C	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	EPH-LS-26-1	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	EDH-LS-B02-1	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	ATS-11	ITE	SHJD69400G	600	400				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	ATS-8	ITE	SHJD69300G	600	300				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	MTS-PDU-2	ITE	SHJD69300G	600	300				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-1LS	Panel	Gen Dilution Fan	ITE	SHJD69300G	600	300				65 <iloAmps @ 480 VAC	3
Thermal/Magnetic	Bldg 111	SG-1LS		EPH-LS-16-1	ABB		120	0	0				
Thermal/Magnetic	Bldg 111	SG-1LS	Main	EPH-LS-B02-1	GE	SGHA36AT0400	600	400	400				
Solid State	Bldg 111	SG-1N		Main	Cutler-Hammer	ND312T33W	600	1200				50 <iloAmps @ 480 VAC	3
Thermal/Magnetic	Bldg 111	SG-1N	Breaker 9	N/A	Cutler-Hammer	DK3300W	600	300	300				
Thermal/Magnetic	Bldg 111	SG-1N	Breaker 11	N/A	Cutler-Hammer	DK330W	600	300	300				
Thermal/Magnetic	Bldg 111	SG-1N	Breaker 12	N/A	Cutler-Hammer	DK3300W	600	300	300				
Solid State	Bldg 111	SG-2CR		EDH-CR-B01-1	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-2CR		EDH-CR-B02-1	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @ 480 VAC	3
Solid State	Bldg 111	SG-2CR		EP Lab 5CN	Cutler-Hammer	HKD3400F	480	600				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-2CR		ERCT-12, 14, 16	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-2CR		N/A									3
Solid State	Bldg 111	SG-2CR		Spare	Cutler-Hammer	HND3800T36W	600	800				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-2CR		T21	Cutler-Hammer	HKD3400	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-2CR		Main	Cutler-Hammer	HMLDL65K	600	800					3
Solid State	Bldg 111	SG-2CR		ATS-11	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-2CR		N/A									3
Solid State	Bldg 111	SG-2CR		EPH-1-BA	Cutler-Hammer	HND3800T36W	600	800				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-2CR		LithoTripter	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-2CR		Load Shed #9	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-2CR		MRI Trailer	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-2CR		T-25 Lab Panels	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-2CR		EDH-CR-24-2	Eaton	HKD3400T52W	600	400				65 VAC	3

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Solid State	Bldg 111	SG-2CR		N/A									3
Solid State	Bldg 111	SG-2CR		N/A									3
Solid State	Bldg 111	SG-2CR		EPH-CR-B02-2	GE	HI-BREAK Circuit Breaker	600	800				50 VAC	3
Solid State	Bldg 111	SG-2CR		EPL-CR-B02-1-MAIN	Square D	MAL	600	600				30 <iloAmps @ VAC	3
Solid State	Bldg 111	SG-2CR		EUH-CR-54-1	Square D	LA36400 series 4	750	400				30000 VAC	3
Thermal/Magnetic	Bldg 111	SG-2N	T3	Panel DH-B01-1	Eaton	HMLDL65	600	800	800				
Thermal/Magnetic	Bldg 111	SG-2N	T2	Panel DH-B01-1	Eaton	L630H	600	630	600				
Thermal/Magnetic	Bldg 111	SG-2N	T1	Panel DH-B01-1	Eaton	HKD 65K	600	400	400				
Thermal/Magnetic	Bldg 111	SG-2N	Parking	Panel DH-B01-1	Eaton	HKD65K	600	400	400				
Thermal/Magnetic	Bldg 111	SG-2N	Main	Panel DH-B01-1	Eaton	HMDL65	600	800	800				
Thermal/Magnetic	Bldg 111	SG-2N	ATS-7	Panel DH-B01-1	Eaton	HKD65	600	400	400				
Thermal/Magnetic	Bldg 111	SG-2N	PH-103-1 / PH-110-1	Panel DH-B01-1	Eaton	HKD65	600	400	300				
Thermal/Magnetic	Bldg 111	SG-2N	UL-21-1&2	Panel DL-B01-1	Eaton	HKD65	600	400	300				
Thermal/Magnetic	Bldg 111	SG-2N	UL-B01-2,3,4	Panel DL-B01-1	Eaton	HKD65K	699	400	300				
Thermal/Magnetic	Bldg 111	SG-2N	Main	Panel DL-B01-1	Eaton	NGH65K	600	1200	1200				
Thermal/Magnetic	Bldg 111	SG-2N	1	Panel DL-B02-1	Westinghouse	AB De-ion	600	400	300				
Thermal/Magnetic	Bldg 111	SG-2N	2	Panel DL-B02-1	Westinghouse	AB De-ion	600	400	300				
Thermal/Magnetic	Bldg 111	SG-2N	3	Panel DL-B02-1	Westinghouse	AB De-ion	600	400	300				
Thermal/Magnetic	Bldg 111	SG-2N	4	Panel DL-B02-1	Westinghouse	AB De-ion	600	400	300				
Thermal/Magnetic	Bldg 111	SG-2N	5	Panel DL-B02-1	Westinghouse	AB De-ion	600	400	300				
Thermal/Magnetic	Bldg 111	SG-2N	6	Panel DL-B02-1	Westinghouse	AB De-ion	600	400	400				
Thermal/Magnetic	Bldg 111	SG-2N	7	Panel DL-B02-1	Westinghouse	AB De-ion	600	400	400				
Thermal/Magnetic	Bldg 111	SG-2N	8	Panel DL-B02-1	Westinghouse	AB De-ion	600	400	400	Westinghouse	LA3400F		
Solid State	Bldg 111	SG-3EQ		ECBP-1B	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		EDH-Q-181-1	Cutler-Hammer	HND3800T36WP10203	600	800				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		Elevator 2&4	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		Elevator 5&7	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		Elevator 6&8	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		Elevator M1&S5	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		MCC-2	Cutler-Hammer	HND3800T36W	600	800				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		SKH-1-1C	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		T-11 EP-3	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		T-20 EP-6	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		T-9 Kitchen	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		Elevator 11&12	Cutler-Hammer	HLD3600F	600	600				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		EPH-Q-1-1	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		EUH-Q-2557-1	Cutler-Hammer	HLD3600F	600	600				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		EDH-Q-24-1 Main	Square D	NX361200G	600	1200					3
Thermal/Magnetic	Bldg 111	SG-3EQ	MCC-1 Main	EDH-Q-24-1	Square D	MHP36800MT	600	800	800				
Thermal/Magnetic	Bldg 111	SG-3EQ	EDH-Q-24-1 Spare	EDH-Q-24-1	Square D	LAL36400	600	400	400				
Thermal/Magnetic	Bldg 111	SG-3EQ	EDH-Q-4-2B	EDH-Q-4-2B	Cutler-Hammer	HKD3400F	600	400	400				
Solid State	Bldg 111	SG-3EQ		EP-4	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3



TYPE	PLANT	SUBSTATION	CIRCUIT DESIGNATION	DEVICE / FEEDER ID	MANUFACTURER	TYPE	VOLTS	FRAM AMP	TRIP AMP	MANUFACTURER	TYPE	INTERUPT RATING	# OF POLES
Solid State	Bldg 111	SG-3EQ		EPH-Q-24-1	Cutler-Hammer	HND3800T36W	600	800				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		MCC Surgery HVAC	Cutler-Hammer	HND3800T36W	600	800				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		I-Line Panel B242 Main	Cutler-Hammer	HKD3400T56W	600	400				65 <iloAmps @480 VAC	3
Solid State	Bldg 111	SG-3EQ		SKH-2-1C	Cutler-Hammer	HKD3400F	600	400				65 <iloAmps @480 VAC	3
Thermal/Magnetic	Bldg 111	SG-4EQ	V7	EP-1	ITE	ET400	600	400	400				
Thermal/Magnetic	Bldg 111	SG-4EQ	S-5 Spare	EPH-Q-103-1	ITE	ET	600	800	700				
Thermal/Magnetic	Bldg 111	SG-4EQ	P4	EPH-Q-103-1	ITE	ET	600	400	250				
Thermal/Magnetic	Bldg 111	SG-4EQ	P5	EPH-Q-103-1	ITE	ET	600	400	250				
Thermal/Magnetic	Bldg 111	SG-4EQ	HR-P1	EPH-Q-110-3	Westinghouse	LB3350	600	350	350				
Thermal/Magnetic	Bldg 111	SG-4EQ	HR-P2	EPH-Q-110-3									
Thermal/Magnetic	Bldg 111	SG-4EQ	Main	EPH-Q-110-4	Eaton	HKD3400	600	400	400				
Solid State	Bldg 111	SG-4N		Main	Square D	PowerPact	600	1200				65 <iloAmps @480 VAC	3
Thermal/Magnetic	Bldg 111	SG-4N	#1	DH-B05-1	Westinghouse	MA3800F	600	800	800				
Thermal/Magnetic	Bldg 111	SG-4N	#2	DH-B05-1	Westinghouse	MA3800F	600	800	600				
Thermal/Magnetic	Bldg 111	SG-4N	#3	DH-B05-1	Westinghouse	MA3800F	600	800	400				
Thermal/Magnetic	Bldg 111	SG-4N	#7	DH-B05-1	Westinghouse	LA3400F	600	400	400	Aeroflex			
Thermal/Magnetic	Bldg 111	SG-4N	Spare	DH-B05-1	Westinghouse								
Thermal/Magnetic	Bldg 111	SG-4N	#1	Panel DL-B05-2	Westinghouse	LA3400F	600	400	300				
Thermal/Magnetic	Bldg 111	SG-4N	#2	Panel DL-B05-2	Westinghouse	LA3400F	600	400	300				
Thermal/Magnetic	Bldg 111	SG-4N	#5	Panel DL-B05-2	Westinghouse	LA3400F	600	400	300				
Thermal/Magnetic	Bldg 111	SG-4N	#9	Panel DL-B05-2	Westinghouse	LA3400F	600	400	300				
Thermal/Magnetic	Bldg 111	SG-4N	#11	Panel DL-B05-2	Westinghouse	LA3400F	600	400	300				
Thermal/Magnetic	Bldg 111	SG-4N	#12 Spare	Panel DL-B05-2	Westinghouse	LA3400F	600	400	300				
Thermal/Magnetic	Bldg 111	SG-4N	#4	Panel DL-B05-2	Westinghouse	LA3400F	600	400	300				
Thermal/Magnetic	Bldg 111	SG-4N	#1	Panel DL-B06-1	Westinghouse	LA3400F	600	400	300				
Thermal/Magnetic	Bldg 111	SG-4N	#2	Panel DL-B06-1	Westinghouse	LA3400F	600	400	300				
Thermal/Magnetic	Bldg 111	SG-4N	#5	Panel DL-B06-1	Westinghouse	LA3400F	600	400	300				
Thermal/Magnetic	Bldg 111	SG-4N	#6	Panel DL-B06-1	Westinghouse	LA3400F	600	400	300				
Thermal/Magnetic	Bldg 111	SG-4N	#11	Panel DL-B06-1	Westinghouse	HLA3400F	600	400	300				

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	MODEL /STYLE #	SERIAL NUMBER	I.B. NUMBER	INTERRUPT RATING	FRAM SIZE	SHUNT TRIP
Low Voltage Breaker	Bldg 111	SG-1LS	SG-1LS	EDH-106-LA-1	Eaton	MDN616	4135650163.001.001	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-1LS	SG-1LS	EDH-108-LS-6	Eaton	MDN616	4135654242.001.001	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-1LS	SG-1LS	Portable Generator	Eaton	MDN620	4135650162.001.001	2C12060	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-1LS	SG-1LS	SG-1LS Main Breaker	Eaton	MDN620	4135654452.001.001	2C12060	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-1LS	SG-1LS	Tie Circuit Breaker	Eaton	MDN620	4135650157.001.001	2C12060	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-1N	SG-1N	ATS-1LS	Eaton	MDN620	4135649427.001.002	2C12060	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-1N	SG-1N	DH-24-2	Eaton	MDN616	413564942.001.002	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-1N	SG-1N	DH-B04-2	Eaton	MDN616	4135649429.001.001	2C12060	65KA	1600	Yes

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	MODEL /STYLE #	SERIAL NUMBER	I.B. NUMBER	INTERRUPT RATING	FRAM SIZE	SHUNT TRIP
Low Voltage Breaker	Bldg 111	SG-1N	SG-1N	Main	Eaton	MDN620	4135649427.001.001	2C13090	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-1N	SG-1N	Spare	Eaton	MDN620	4135649428.001.001	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-1N	SG-1N	Tie	Eaton	MDN620	4135654451.001.001	2C12060	65KA	2000	
Low Voltage Breaker	Bldg 111	SG-2CR	SG-2CR	EDH-204-CR-5	Eaton	MDN620		2C13090	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-2CR	SG-2CR	EDH-211-CR-7	Eaton	MDN620		2C13090	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-2CR	SG-2CR	EPH-212-CR-2	Eaton	MDN620		2C13090	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-2CR	SG-2CR	EPH-CR-B02-1	Eaton	MDN620		2C13090	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-2CR	SG-2CR	Main	Eaton	MDN620		2C13090	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-2CR	SG-2CR	Portable Generator	Eaton	MDN620		2C13090	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-2CR	SG-2CR	TIE	Eaton	MDN620		2C13090	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-2N	SG-2N	DH-B02-4	Eaton	MDN620	4135654228.001.002	N/A	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-2N	SG-2N	ATS-2CR	Eaton	MDN620	4135653650.001.001	N/A	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-2N	SG-2N	DH-B01-1	Eaton	MDN620	4135736910.001.003	N/A	65KA	1600	yes
Low Voltage Breaker	Bldg 111	SG-2N	SG-2N	Main	Eaton	MDN620	4135654066.001.001	N/A	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-2N	SG-2N	TIE	Eaton	MDN620	4135R34145.01.001	N/A	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-3EQ	SG-3EQ	EDH-304-Q-3	Eaton	MDN616	4135654256.001.001	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-3EQ	SG-3EQ	EDH-307-Q-4	Eaton	MDN616	4135650389.001.002	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-3EQ	SG-3EQ	EPH-Q-B06-1	Eaton	MDN616	4135654454.001.001	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-3EQ	SG-3EQ	Main	Eaton	MDN620	4135650161.001.001	2C12060	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-3EQ	SG-3EQ	Portable Generator	Eaton	MDN620	4135654243.001.001	2C12060	65KA	2000	No
Low Voltage Breaker	Bldg 111	SG-3EQ	SG-3EQ	TIE	Lakeshore	MDN620	4135654245.001.001	2C12060	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-3N	SG3N	Main	Eaton	MDN620		N/A	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-3N	SG3N	ATS-3EQ	Eaton	MDN620	4135649745.001.001	N/A	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-3N	SG3N	DHB01 & DHB02	Eaton	MDN616		N/A	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-4EQ	SG-4EQ	ATS-14	Eaton	MDN616	4135R28094.001.001	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-4EQ	SG-4EQ	EPH-Q-103-1	Eaton	MDN616	4135650388.001.001	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-4EQ	SG-4EQ	EPH-Q-110-1	Eaton	MDN616	4135654453.001.001	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-4EQ	SG-4EQ	EPH-Q-B02-1	Eaton	MDN616	4135654244.001.001	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-4EQ	SG-4EQ	SG-4EQ Main	Eaton	MDN620	4135650387.001.002	2C12060	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-4EQ	SG-4EQ	Portable Generator	Eaton	MDN616	4135654455.001.001	2C12060	65KA	2000	No
Low Voltage Breaker	Bldg 111	SG-4EQ	SG-4EQ	TIE	Eaton	MDN620	4135653650.001.002	2C12060	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-4N	SG-4N	ATS-4EQ	Eaton	MDN620	4135654066.001.001	2C12060	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-4N	SG-4N	DH-B02-3	Eaton	MDN616	4135654067.001.001	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-4N	SG-4N	DH-B05-1	Eaton	MDN616	4135654065.001.001	2C12060	65KA	1600	Yes
Low Voltage Breaker	Bldg 111	SG-4N	SG-4N	SG-4N Main	Eaton	MDN620	4135650387.001.001	2C12060	65KA	2000	Yes
Low Voltage Breaker	Bldg 111	SG-4N	SG-4N	TIE	Eaton	MDN620	41356549746.001.001	2C12060	65KA	2000	Yes

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE /FEEDER ID	MANUFACTURER	MODEL/ STYLE #	UL/ CSA #	NUMBER OF FEEDERS / TAPS	SYSTEM VOLTAGE (V)	RATED VOLTAGE (V)	RATED CURRENT (A)	RATED NEUTRAL (A)
Motor Control Center	Bldg 111	SG-2CR	MCC-G	MCC-G	Westinghouse	Five Star - MK-15510 IT.007 FVC	C-382439,440,441	15	480V	480V	600A	0A
Motor Control Center	Bldg 111	SG-3EQ	EPH-Q-24-3	EPH-Q-24-3	Allen Bradley	945243	N/A	15	480V	600V	400A	0A
Motor Control Center	Bldg 111	SG-3EQ	MCC-1	MCC-1	Square D	5	N/A	12	480V	480V	800A	0A
Motor Control Center	Bldg 111	SG-4EQ	EPH-Q-103-1	EPH-Q-103-1	No Nameplate	N/A	N/A	14	0V	0V	0A	0A
Motor Control Center	Bldg 111	SG-4EQ	EPH-Q-110-1	EPH-Q-110-1 Sheet 1	No Nameplate	Centerline	N/A	15	0V	0V	0A	0A
Motor Control Center	Bldg 111	SG-4EQ	EPH-Q-110-1	EPH-Q-110-1 Sheet 2	No Nameplate	Centerline	N/A	13	0V	0V	0A	0A
Motor Control Center	Bldg 111	SG-4EQ	EPH-Q-110-3	EPH-Q-110-3	Allen Bradley	Centerline	N/A	7	0V	0V	0A	0A
Motor Control Center	Bldg 111	SG-4EQ	EPH-Q-B02-1	EPH-Q-B02-1 Sheet 1	Allen Bradley	N/A	N/A	15	480V	480V	0A	0A
Motor Control Center	Bldg 111	SG-4EQ	EPH-Q-B02-1	EPH-Q-B02-1 Sheet 2	Allen Bradley	N/A	N/A	15	480V	480V	0A	0A

TYPE	PLANT	DEVICE/ FEEDER ID	MANUFACTURER	Circuit ID	System Voltage	Primary Volts	Secondary Volts	Style / Cat#	PT Primary Connection	Manufacturer	Rated AMPS	Style / Cat#	Manufacturer	Rated AMPS	Style / Cat#
Potential Transformer	Bldg 111	SG-1LS	Cutler-Hammer	SG-1LS	480/120	480	120	4601B05H16	Wye	CC-Tron	2	FNQ-R-2	Tron	2	FNQ-2
Potential Transformer	Bldg 111	SG-1N PT	Cutler-Hammer	SG-1N	480/120	480	120	4601B05H16	Wye	CC-Tron	2	FNQ-R-2	Tron	2	FNQ-2
Potential Transformer	Bldg 111	SG-2CR PT	Cutler-Hammer	SG-2CR	480/120	480	120	4601B05H16	Wye	CC-Tron	2	FNQ-R-2	Tron	2	FNQ-2
Potential Transformer	Bldg 111	SG-3EQ	Cutler-Hammer	SG-3EQ	480/120	480	120	4601B05H16	Wye	CC-Tron	2	FNQ-R-2	Tron	2	FNQ-2
Potential Transformer	Bldg 111	SG-4EQ	Cutler-Hammer	SG-4EQ	480/120	480	120	4601B05H16	Wye	CC-Tron	2	FNQ-R-2	Tron	2	FNQ-2
Potential Transformer	Bldg 111	SG-4N	Cutler-Hammer	SG-4N	480/120	480	120	4601B05H16	Wye						

End of Base year



Option Year One:

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	MODEL/STYLE #	UL / CSA #	SO / GO #	SYSTEM VOLTAGE	RATED VOLTAGE	RATTED CURENT	RATED NEUTRAL
Switchboard / Switchgear	Bldg 43	Bldg 43		Main Switchboard	GE	AV-Line	126707	55303	480Y / 277	480	1200	1200
Switchboard / Switchgear	Bldg 70	Sub B/A	MDP-70 B/A	MDP-70-B/A	Anixter	Switchboard	A125305 to A125310	37519	120/208	120/208	3000	3000
Switchboard / Switchgear	Bldg 70	Sub C	MDP-70 C	MDP-70-C	Anixter	Switchboard	A125371 to A125377	37519	120/208	120/208	3000	3000
Switchboard / Switchgear	Bldg 70	Sub D	MDP-70 D	MDP-70-D	Anixter	Switchboard	A125221 to A125226	37519	120/208	120/208	3000	3000
Switchboard / Switchgear	Bldg 70	Sub E	MDP-70 E	MDP-70E	Anixter	Switchboard	A125232 to A125226	37519	120/208	120/208	3000	3000
Switchboard / Switchgear	Bldg 70	Sub E	MDP-70 E	SB-DL-BEN-1	Eaton	Switchboard		MMK0004601	120/208	120/208	600	600
Switchboard / Switchgear	Bldg 70	Sub G	MDP-70 G	MDP-70-G	Anixter	Switchboard	A125380 to A125382	37519	120/208	120/208	3000	3000

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	MODEL/ STYLE #	SERIAL / I.B. NUMBER	UL/ CSA #	PHASE	KVA	NUMBER OF FEEDERS / TAPS	PRIMARY VOLTS	SECONDARY VOLTS
Dry Type Transformer	Bldg 123	Bldg 123	Transformers	XF-100 A WING	Westinghouse	DT-3	78E2798	AA	3	50	7	480	208 / 120
Dry Type Transformer	Bldg 123	Bldg 123	Transformers	XF-101 B WING	Westinghouse	DT-3	78D690	AA	3	50	7	480	208 / 120
Dry Type Transformer	Bldg 123	Bldg 123	Transformers	XF-102 C WING	Westinghouse	DT-3	78E2795	AA	3	50	7	480	208 / 120
Dry Type Transformer	Bldg 123	Bldg 123	Transformers	XF-103 D WING	Westinghouse	DT-3	87E2605	AA	3	50	7	480	208 / 120
Dry Type Transformer	Bldg 123	Bldg 123	Transformers	XF-105 E WING	Westinghouse	DT-3	78C5921	AA	3	150	7	480	208 / 120
Dry Type Transformer	Bldg 144	Bldg 144	Transformers	144-ET-CR-174-1	Eaton	Distribution / DT-3	J10H05410	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 144	Bldg 144	Transformers	144-ET-CR-G67-1	Eaton	Distribution / DT-3	J10H00236D	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 144	Bldg 144	Transformers	144-ET-LS-174-1	Eaton	Distribution / DT-3	J10G06732	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 144	Bldg 144	Transformers	144-ET-LS-G67-1	Eaton	Distribution / DT-3	J10G06685	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 144	Bldg 144	Transformers	144-ET-Q-201-1	Eaton	Distribution / DT-3	J10G06751	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 144	Bldg 144	Transformers	144-T-147-1	Eaton	Distribution / DT-3	J10H05383	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 144	Bldg 144	Transformers	144-T-174-1	Eaton	Distribution / DT-3	J10H05360	AA	3	75	7	480	208 120

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	MODEL/ STYLE #	SERIAL / I.B. NUMBER	UL/ CSA #	PHASE	KVA	NUMBER OF FEEDERS / TAPS	PRIMARY VOLTS	SECONDARY VOLTS
Dry Type Transformer	Bldg 144	Bldg 144	Transformers	N/A	Eaton	Distribution / DT-3	J10H05445	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 144	Bldg 144	Transformers	144-T-G-67-1	Eaton	Distribution / DT-3	J10H05334D	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 144	Bldg 144	Transformers	144-T-G23-1	Eaton	Distribution / DT-3	J10H05445	AA	3	45	7	480	208 / 120
Dry Type Transformer	Bldg 144	Bldg 144	Transformers	144-ET-Q-G61-1	Eaton	Distribution / DT-3	J10G06612	AA	3	45	7	480	208 / 120

TYPE	PLANT	SUBSTATION	CIRCUIT DESIGNATION	DEVICE / FEEDER ID	MANUFACTURER	TYPE	VOLTS	FRAM AMP	TRIP AMP	TYPE	AMPS	CURRENT RATING (AMPS)	VOLTAGE RATING (VOLTS)	INTERUPT RATING	# OF POLES
Thermal/Magnetic	Bldg 123	Bldg 123	123-ACRCI-2		Westinghouse	LC3600F	600	600	300		1500				
Thermal/Magnetic	Bldg 123	Bldg 123	123-ACRI-1		Westinghouse	LC3600F	600	600	300		1500				
Thermal/Magnetic	Bldg 123	Bldg 123	PANEL HS		Westinghouse	LC3600F	600	600	400		2000				
Solid State	Bldg 43	Bldg 43	PANEL	MDP Transformer	GE	TJ4V2605						500	600	30 Kiloamps @ 480 VAC	3
Solid State	Bldg 43	Bldg 43	PANEL	Motor Control CTR	GE	TJ4V2606						600	600	30 Kiloamps @ 480 VAC	3
Solid State	Bldg 43	Bldg 43	PANEL	Transfer Switch	GE	TJ4V603						300	600	30 Kiloamps @ 480 VAC	3
Thermal/Magnetic		North Loop Feeds	PNL-SL1		Square D	QDL22150	480	150	150	N/A	0				
Thermal/Magnetic		North Loop Feeds	Panel K		Square D	QoM2200VH	480	200	200	N/A	0				

TYPE	PLANT	SUBSTATION	CIRCUIT DESIGNATION	DEVICE / FEEDER ID	MANUFACTURER	TYPE	VOLTS	FRAM AMP	TRIP AMP
Thermal/Magnetic	Bldg 70	Sub B/A	MCC B	MDP-70-B/A	Westinghouse	MC3800F	600	800	800
Thermal/Magnetic	Bldg 70	Sub B/A	MDP-70A Main (RM 70A-12)	MDP-70-B/A	Westinghouse	ML3800F	600	800	800
Thermal/Magnetic	Bldg 70	Sub B/A	SB-DC-BBN-1 Main	MDP-70-B/A	Westinghouse	HLD3600F	600	600	600
Thermal/Magnetic	Bldg 70	Sub E	Main	SB-DL-BEN-1	Eaton	HLD360F	600	600	600
Thermal/Magnetic	Bldg 70	Sub G	1 Xfer SW SE 70C	MDP-70-G	Westinghouse	LC3600F	600	600	600
Thermal/Magnetic	Bldg 70	Sub G	2 Xfer SW SE 70E	MDP-70-G	Westinghouse	LC3800F	600	600	600
Thermal/Magnetic	Bldg 70	Sub G	3 Xfer SW SE 70B	MDP-70-G	Westinghouse	LC3800F	600	600	600
Thermal/Magnetic	Bldg 70	Sub G	4 Xfer SW SE 70D	MDP-70-G	Westinghouse	LC3800F	600	600	600
Thermal/Magnetic	Bldg 70	Sub G	5 Xfer SW SE 70B1	MDP-70-G	Westinghouse	LC3800F	600	600	600

TYPE	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	MODEL/ STYLE #	SERIAL NUMBER	SYS VOLTAGE	VOLTAGE RATING	CURRENT RATING	BIL (KV)
Medium Voltage Switch	Bldg 43		MVS MAIN	Cooper	KYLE Padmounted	KP00310L73A08A	13,800	16,000	600	95

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	MODEL/STYLE #	SERIAL NUMBER	I.B. NUMBER	INTERRUPT RATING	FRAM SIZE	SHUNT TRIP
Low Voltage Breaker	Bldg 123	Bldg 123		Main Breaker	Westinghouse	DS-416	49Y1944	N/A	50KA	1200	120VAC
Low Voltage Breaker	Bldg 43	Bldg 43		Main Breaker	GE	AKR-7D-50	AK48855	GE186150	50KA	1600	
Low Voltage Breaker	Bldg 144	SG-144EM	SG-144EM	ATS-CRIT	Eaton	MDS 616	4135437861.001.001	N/A	65000	600	No
Low Voltage Breaker	Bldg 144	SG-144EM	SG-144EM	ATS-EQUIP	Eaton	MDS 408	4135437862.001.001	N/A	65000	800	N/A
Low Voltage Breaker	Bldg 144	SG-144N	SG-144N	ACCU-1	Eaton	MDS 616	4135437858.001.003	N/A	65000	800	No
Low Voltage Breaker	Bldg 144	SG-144N	SG-144N	ACCU-2	Eaton	MDS 616	4135437858.001.001	N/A	65000	800	No
Low Voltage Breaker	Bldg 144	SG-144N	SG-144N	ATS Equip	Eaton	MDS 616	4135437857.001.002	N/A	65000	800	No
Low Voltage Breaker	Bldg 144	SG-144N	SG-144N	ATS-LS	Eaton	MDS 616	4135437860.001.001	N/A	65000	800	No
Low Voltage Breaker	Bldg 144	SG-144N	SG-144N		Eaton	MDS 616		N/A	65000		No
Low Voltage Breaker	Bldg 144	SG-144N	SG-144N	Elevator 3	Eaton	MDS 616	4135R31251.001.001	N/A	65000	800	No
Low Voltage Breaker	Bldg 144	SG-144N	SG-144N	LPAB	Eaton	MDS 616	4135437860.001.002	N/A	65000	800	No
Low Voltage Breaker	Bldg 144	SG-144N	SG-144N		Eaton	MDS 616	4135366091.001.001	N/A	65000	1600	Yes
Low Voltage Breaker	Bldg 144	SG-144N	SG-144N	PPAP	Eaton	MDS 616	4135437859.001.001	N/A	65000	800	No
Low Voltage Breaker	Bldg 144	SG-144N	SG-144N	RDP	Eaton	MDS 616	4135477858.001.001	N/A	65000	800	No
Low Voltage Breaker	Bldg 144	SG-144N	SG-144N	ATS-CRIT	Eaton	MDS 616	4135437858.001.002	N/A	65000	800	No
Low Voltage Breaker	Bldg 70	Sub B/A	MDP-70 B/A	MDP-70-B/A Main	Westinghouse	SPB100	68E1035	N/A	100000	3000	No
Low Voltage Breaker	Bldg 70	Sub B/A	MDP-70 B/A	MDP-70-B/A Spare	Westinghouse	SPB100		N/A	100000	1600	No
Low Voltage Breaker	Bldg 70	Sub C	MDP-70 C	CB-70C-10-C-2	Westinghouse	SPB100	68E1035	N/A	100000	3000	No
Low Voltage Breaker	Bldg 70	Sub C	MDP-70 C	Main	Westinghouse	SPB100	16spb 1600	N/A	100000	3000	No
Low Voltage Breaker	Bldg 70	Sub D	MDP-70 D	Main	Westinghouse	SPB100	30SPB3000	N/A	100000	3000	No
Low Voltage Breaker	Bldg 70	Sub D	MDP-70 D	PA-SB-BDN-1	Westinghouse	SPB100	16Sspb1600	N/A	100000	1600	No
Low Voltage Breaker	Bldg 70	Sub E	MDP-70 E	Main	Westinghouse	SPB100	30SPB3000	N/A	100000	3000	No
Low Voltage Breaker	Bldg 70	Sub E	MDP-70 E	MDP-70E-2F	Westinghouse	SPB100	16spb1600	N/A	100000	1600	No
Low Voltage Breaker	Bldg 70	Sub G	MDP-70 G	MDP-70-G Main	Westinghouse	SPB100	68E1035	N/A	100000	3000	No

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/FEEDER ID	MANUFACTURER	MODEL/STYLE #	SERIAL / I.B. NUMBER	UL/CSA #	NUMBER OF FEEDERS / TAPS	SYSTEM VOLTAGE (V)	RATED VOLTAGE (V)	RATED CURRENT (A)	RATED NEUTRAL (A)
Motor Control Center	Bldg 113	Bldg 113	MCC A	MCC A	Challenger	VXEG98898 IT 001		K-451984	5	480	480	600	0
Motor Control Center	Bldg 113	Bldg 113	MCC C	MCC C	Allen Bradley	Multi Unit Control Center			15	480	480	0	0
Motor Control Center	Bldg 113	Bldg 113	MCC D	MCC D	Allen Bradley	Multi Unit Control Center			15	480	480	0	0

PLANT	Substation	EQUIPMENT POSITION	DEVICE/ FEEDER ID	CIRCUIT DESIGNATION	MANUFACTURER	TYPE	VOLTS	AMPS	MANUFACTURER	TYPE	VOLTS	AMPS	KAIC
					SWITCH			FUSE					
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	SE 708 XFER SW	Gould	Vac-Break	240	600	Gould	DE	250	600	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	SE70B1 XFER SW	Gould	Vac-Break	240	600	Gould	DE	250	600	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	Panel C	Gould	Vac-Break	240	200	Gould	DE	250	200	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	B Wing Elevator	Gould	Vac-Break	240	200	Gould	DE	250	200	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	Spare	Gould	Vac-Break	240	200					
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	LS70B XFER SW	Gould	Vac-Break	240	200	Gould	DE	250	200	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	Spare (2Pole)	Siemens	Vac-Break	240	200					
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	Blank									
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	Panel B	Gould	Vac-Break	240	200	Gould	DE	250	200	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	EDR-CR-B5-2	ITE	Vac-Break	240	600	Trionic	DE	250	600	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	Spare	Gould	Vac-Break	240	100					
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	Panle D	Gould	Vac-Break	240	100	Gould	DE	250	100	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	REF Repair Shop	Gould	Vac-Break	240	100	Little Fuse	DE	250	100	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	Panel A	Gould	Vac-Break	240	100	Gould	DE	250	100	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	Tank Room Panel	Gould	Vac-Break	240	100	Gould	DE	250	100	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	Existing AC Repair	Gould	Vac-Break	240	100	Gould	DE	250	100	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	PP-1	Square D	Safety Unit	240	400	Gould	DE	250	400	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	DL-SB-BBN-1	Square D	Safety Unit	240	600	Trionic	DE	250	600	200
Bldg 70	Sub B/A	MDP-70 B/A	MDP-70A Main	UL/LL-B4-1	Square D	Safety Unit	240	600	Fusetron	DE	250	225	200
Bldg 70	Sub C	MDP-70 C	MDP-70	DI-SB-BLN-1	Siemens	VacUBreak	240	600	Trionic	DE	250	600	200
Bldg 70	Sub C	MDP-70 C	MDP-70	EDL-CR-B5-1	ITE	VacUBreak	240	600	Trionic	DE	250	600	200
Bldg 70	Sub C	MDP-70 C	MDP-70	Air Condioner	Gould	VacUBreak	240	100	Gould	DE	250	100	200
Bldg 70	Sub C	MDP-70 C	MDP-70	Panel CB-6	Gould	VacUBreak	240	100	Fusetron	DE	250	100	200
Bldg 70	Sub C	MDP-70 C	MDP-70	Panel CB-1A	Gould	VacUBreak	240	200	Gould	DE	250	12.5	200
Bldg 70	Sub C	MDP-70 C	MDP-70	Panel CI-2A	Gould	VacUBreak	240	200	Gould	DE	250	200	200
Bldg 70	Sub C	MDP-70 C	MDP-70	Panel CI-1A	Gould	VacUBreak	240	200	Gould	DE	250	200	200
Bldg 70	Sub C	MDP-70 C	MDP-70	Panel C2-2A	Gould	VacUBreak	240	200	Gould	DE	250	200	200
Bldg 70	Sub C	MDP-70 C	MDP-70	Panel C2-1A	Gould	VacUBreak	240	200	Gould	DE	250	200	200
Bldg 70	Sub C	MDP-70 C	MDP-70	Panel C2-3B	Gould	VacUBreak	240	200	Gould	DE	250	200	200
Bldg 70	Sub C	MDP-70 C	MDP-70	C2-3A	Gould	VacUBreak	240	200	LowPeak	DE	250	200	200
Bldg 70	Sub C	MDP-70 C	MDP-70	C2-4	Gould	VacUBreak	240	400	Gould	DE	250	225	200

PLANT	Substation	EQUIPMENT POSITION	DEVICE/ FEEDER ID	CIRCUIT DESIGNATION	MANUFACTURER	TYPE	VOLTS	AMPS	MANUFACTURER	TYPE	VOLTS	AMPS	KAIC
Bldg 70	Sub C	MDP-70 C	MDP-70	West Panel	Gould	VacUBreak	240	400	Gould	DE	250	400	200
Bldg 70	Sub C	MDP-70 C	MDP-70	Wing C 2nd Floor	Gould	VacUBreak	240	400	FuseTron	DE	250	225	200
Bldg 70	Sub C	MDP-70 C	MDP-70	LS 70C Xfer SW	Gould	VacUBreak	240	200	Gould	DE	250	200	200
Bldg 70	Sub C	MDP-70 C	MDP-70	SE 70C Xfer SW	Gould	VacUBreak	240	600	Gould	DE	250	600	200
Bldg 70	Sub C	MDP-70 C	MDP-70	Panel C2-5	Gould	VacUBreak	240	400	Gould	DE	250	225	200
Bldg 70	Sub C	MDP-70 C	MDP-70	Wing C 1st Floor	Gould	VacUBreak	240	400	FuseTron	DE	250	225	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	Trailers	Siemens	Vac-Break	240	400	FuseTron	DE	250	400	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	AC Unit D Wing	Gould	Vac-Break	240	200	Gould	DE	250	200	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	Transfer Switch LS 70D	Gould	Vac-Break	240	200	Gould	DE	250	200	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	Panel DB-7 & AH	Gould	Vac-Break	240	200	Gould	DE	250	175	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	Panel D1-5	Gould	Vac-Break	240	200	Gould	DE	250	200	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	Panels D1-2 & D2-2	Gould	Vac-Break	240	400	Gould	DE	250	250	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	Panels DB-1, D1-1, D2-1	Gould	Vac-Break	240	400	Gould	DE	250	300	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	Panel DB-11	Gould	Vac-Break	240	200	Gould	DE	250	125	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	Panel DB-12	Gould	Vac-Break	240	200	Gould	DE	250	125	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	Transfer Switch SE700	Gould	Vac-Break	240	600	Gould	DE	250	600	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	Panels DB-3, D1-3, D2-3	Gould	Vac-Break	240	400	Gould	DE	250	300	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	Panel D2-4	Gould	Vac-Break	240	200	Gould	DE	250	125	200
Bldg 70	Sub D	MDP-70 D	MDP-70D	AC Panel 2nd Floor	Gould	Vac-Break	240	200	Gould	DE	250	200	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Transfer SW SE 70E	Gould	Vac-Break	240	600	Gould	DE	250	600	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	26&27 Annex	Gould	Vac-Break	240	400	Gould	DE	250	350	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Tranfer SW LS70E	Gould	Vac-Break	240	200	Gould	DE	250	200	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel 25	Gould	Vac-Break	240	200	Gould	DE	250	200	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel 2E-A	Gould	Vac-Break	240	400	Gould	DE	250	400	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel 2E-B & 2E-C	Gould	Vac-Break	240	400	Gould	DE	250	400	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel 32	Gould	Vac-Break	240	200	Gould	DE	250	200	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Spare	Gould	Vac-Break	240	200					
Bldg 70	Sub E	MDP-70 E	MDP-70E	SB-DL-DEN-1	ITE	Vac-Break	240	600	Ferraz	DE	250	600	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel E-I-N	Gould	Vac-Break	240	200	LowPeak	DE	250	200	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Range Day Care	Gould	Vac-Break	240	60	Gould	DE	250	60	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	A/H RMS	Gould	Vac-Break	240	60	Bussman	DE	250	20	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	A/C Compressor RMS	Gould	Vac-Break	240	60	Bussman	DE	250	35	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Circ Pump	Gould	VacUBreak	240	60	Bussman	FuseTron	250	35	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel 33	Gould	VacUBreak	240	100	Gould	Tri-Onic	250	100	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel 30	Gould	VacUBreak	240	100	Gould	Tri-Onic	250	100	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Fee to A/C Unit Rm E127A	Gould	VacUBreak	240	100	Gould	Tri-Onic	250	100	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel 28	Gould	VacUBreak	240	100	Gould	Tri-Onic	250	100	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel 29	Gould	VacUBreak	240	100	Gould	Tri-Onic	250	100	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel 34	Gould	VacUBreak	240	100	Gould	Tri-Onic	250	100	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel 38	Gould	VacUBreak	240	100	Gould	Tri-Onic	250	100	200
Bldg 70	Sub E	MDP-70 E	MDP-70E	Panel 31	Gould	VacUBreak	240	100	Gould	Tri-Onic	250	100	200



bldg.	type	manuf.	devise	mod/style	ser#		voltage	AMP		voltage
102	transformer	cooper	HVP-102		0001EP11XPMA		13.2/480			
102	cables		HVP-102-bldg.102				13.2K-208/120Y			
102	breaker	Eaton	main /MSB-1002	Magnum SB, SSBS620	SBS6203HEA, 205N,	Eaton	208Y/120v	2000		480, 3 phase
102	switchboard	Eaton	Main MCC/MSB-1002	Pow-R-Line	LMK0010984	Eaton	208Y/120v	2000		480, 3 phase
102	breaker	ATS-B1	branch breaker	CHLD 65K	CHLD3600F/663SC8G25	Eaton	600V	600A		480, 3PHASE
102	breaker	ATS-B2	branch breaker	CHLD 65K	CHLD3600F/663SC8G25	Eaton	600V	600A		480, 3PHASE
102	ATS	Generac	ATS-B2	ATS	Eaton ATC 800 controler	Generac				480,3phase,4wire
102	ATS	Generac	ATS-Q-B2	ATS	Eaton ATC 800 controler	Generac				480,3phase,4wire
102	ATS	Generac	ATS-Q-B1	ATS	Eaton ATC 800 controler	Generac				480,3phase,4wire
102	ATS	Generac	ATS-B1	ATS	Eaton ATC 800 controler	Generac				480,3phase,4wire

## End of Option Year One

Option Year Two:

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	SYSTEM VOLTAGE	RATED VOLTAGE	BUS AMPS	GROUND SIZE	NEUTRAL SIZE
Panelboard		North Loop Feeds	Panels	PNL K	Square D	120/240	240	200	4/0	4/0

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	MODEL/ STYLE #	SERIAL / I.B. NUMBER	UL/ CSA #	PHASE	KVA	NUMBER OF FEEDERS / TAPS	PRIMARY VOLTS	SECONDARY VOLTS	TANK / FUEL TYPE
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 5	Cooper Power systems		926001211	OA	3	300	5	13200	208 / 120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 1	RTE	CP	886003126	OA	3	75	5	13200	208 / 120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 2	RTE	CP	836005318	OA	3	500	5	13200	208 / 120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 3	Cutler-Hammer	CP	05J253373	OA	3	225	5	13200	208 / 120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	6	RTE		886003330	OA	3	1000	5	13200	250 / 120	Gas Blanket / Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 7	Cooper Power systems	CP	939002948	OA	3	500	5	13200	208 / 120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	7?	RTE	CP	886003187	OA	3		5	13200	208 / 120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 11	Vantran	CP	88V2552	OA	1	50	5	13200	120 / 120	Gas Blanket
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 12	RTE	CP	886003127	OA	3	75	5	13200	208 / 120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 14	Vantran	CP	88V2551	OA	1	38	5	13200	120 / 120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 16	Vantran	CP	88V25553	OA	1	50	5	13200	120 / 120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 17	Vantran	CP	15V10928	OA	1	75	5	13200	120 / 120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 19	Vantran	CP	88V2555	OA	1	75	5	13200	120/120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 20	RTE	CP	88600316	OA	3	113	5	13200	208/120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 27	Vantran	CP	98V3728-2	OA	3	75	5	13200	208/120	Gas Blanket / Mineral Oil

TYPE	PLANT	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	MODEL/ STYLE #	SERIAL / I.B. NUMBER	UL/ CSA #	PHASE	KVA	NUMBER OF FEEDERS / TAPS	PRIMARY VOLTS	SECONDARY VOLTS	TANK / FUEL TYPE
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 36	Vantran	CP	97V3728-1	OA	3	75	5	13200	208/120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 39	Vantran	CP	88V2548	OA	1	37.5	5	13200	120/120	Gas Blanket
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 41	RTE		886003186	OA	3	225	5	13200	208/120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 41 from HVS-41	Vantran	CP	97V3728-3	OA	3	75	5	13200	208/120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	43	GE		P492478TXC	OA	3	750	5	13200	480/277	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	49	Vantran	CP	88V2556	OA	1	75	5	13200	120/120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 62	Vantran	CP	88V2557	OA	1	75	5	13200	120/120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 97	RTE	CP	886003124	OA	3	75	5	13200	208/120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 102	Cooper Power		1450005699	KNAN	3	500	5	13200	208/120	Gas Blanket / FR3
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 108	RTE	CP	886003183	OA	3	112.5	5	13200	208/120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 112	Eaton	Unit Substation	13JC660140001	KNAN	3	500	5	13200	480/277	Gas Blanket / FR3
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 119	ABB		114JC703090001	KNAN	3	225	5	13200	208/120	Gas Blanket / Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 146	Square D	Distribution	30141278-002-01		3	225	5	13200	208/120	Gas Blanket / FR3
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XF 1301	Cooper Power Systems		936001226	OA	3	113	5	13200	208/120	Gas Blanket / Mineral Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	Crash Lab 2	Pioneer Transformers		G10161-1	OA	3	750	5	13200	480/277	Gas Blanket / Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	XFK	Vantran	CP	88V2549	OA	1	37.5	5	13200	120/120	Gas Blanket / Oil
NLTC 2 Winding Liquid Transformer		NORTH LOOP FEEDS	Transformers	SL-1	Solomon		76497	OA?	1	37.5	5	13200	120/120	Mineral Oil

TYPE	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUF - ACTUR ER	SYS VOLTAGE	VOLTAGE RATING	INSUL- ATION TYPE	CABLE DATE	CIRCUIT LENGTH (FT)	CONDUCT SIZE (KCMIL)	# OF CONDUCT ORS	CONDUCTOR MATERIAL	TERMINATION LOC - LINE	TERMINATION LOC - LOAD
Medium Voltage Cable	North Loop Feed	Cables	(1 ) BLDG 115 to HVS -A	Uniblend							1	Copper		
Medium Voltage Cable	North Loop Feed	Cables	(2) HVS-A to HVP-K Source A	Cable CM	13,200	15,000		1998	725	250	1	Copper	HVS-A Source A	HVP-K Source A
Medium Voltage Cable	North Loop Feed	Cables	(3) HVS-A to HVP-K Source B	Cable CM	13,200	15,000		1998	725	250	1	Copper	HVS-A Source B	HVP-K Source B
Medium Voltage Cable	North Loop Feed	Cables	(4) HVP-K to HVP-2 Source A	Cable CM	13,200	15,000		1998	528	250	1	Copper	HVP-K Source A	HVP-2 Source A
Medium Voltage Cable	North Loop Feed	Cables	(5) HVP-K to HVP-2 Source B	Cable CM	13,200	15,000		1998	528	250	1	Copper	HVP-K Source B	HVP-2 Source B
Medium Voltage Cable	North Loop Feed	Cables	(6) HVP-2 to HVP-3 Source A	Uniblend	13,200	15,000	MV-90	1988	332	250	1	Copper	HVP-2 Source A	HVP-3 Source A
Medium Voltage Cable	North Loop Feed	Cables	(7) HVP-2 to HVP-3 Source B	Uniblend	13,200	15,000	MV-90	1988	332	250	1	Copper	HVP-2 Source B	HVP-3 Source B
Medium Voltage Cable	North Loop Feed	Cables	(8) HVP-3 to HVP-4 Source A	Uniblend	13,200	15,000	MV-90	1988	350	250	1	Copper	HVP-3 Source A	HVP-4 Source A
Medium Voltage Cable	North Loop Feed	Cables	(9) HVP-3 to HVP-4 Source B	Uniblend	13,200	15,000	MV-90	1988	350	250	1	Copper	HVP-3 Source B	HVP-4 Source B
Medium Voltage Cable	North Loop Feed	Cables	(10) HVP-4 to HVS-4 Source A	Uniblend	13,200	15,000	EPR	1988	25	250	1	Copper	HVP-4 Source A	HVS-4 Source A
Medium Voltage Cable	North Loop Feed	Cables	(11) HVP-4 to HVS-4 Source B	Uniblend	13,200	15,000	EPR	1988	25	250	1	Copper	HVP-4 Source B	HVS-4 Source B
Medium Voltage Cable	North Loop Feed	Cables	(12) HVP-4 to HVP-8 Source A	Uniblend	13,200	15,000	EPR	1988	480	250	1	Copper	HVP-4 Source A	HVP-4 Source A
Medium Voltage Cable	North Loop Feed	Cables	(13) HVP-4 to HVP-8 Source B	Prysiam	13,200	15,000	XEPR	2013	480	250	1	Copper	HVP-4 Source B	HVP-8 Source B
Medium Voltage Cable	North Loop Feed	Cables	(14) HVP-8 to XF-41 Source A	Uniblend	13,200	15,000	EPR	1988	30	250	1	Copper	HVP-8 Source A	XF-41 Source A
Medium Voltage Cable	North Loop Feed	Cables	(15) HVP-8 to XF-41 Source B	Uniblend	13,200	15,000	EPR	1988	30	250	1	Copper	HVP-8 Source B	XF-41 Source B
Medium Voltage Cable	North Loop Feed	Cables	(16) HVP-8 to HVP-11 Source A	Uniblend	13,200	15,000	EPR	1988	822	250	1	Copper	HVP-8 Source A	HVP-11 Source A
Medium Voltage Cable	North Loop Feed	Cables	(17) HVP-8 to HVP-11 Source B	Uniblend	13,200	15,000	EPR	1988	822	250	1	Copper	HVP-8 Source B	HVP-11 Source B
Medium Voltage Cable	North Loop Feed	Cables	(18) HVP-11 to HVS-11 Source A	Uniblend	13,200	15,000	EPR	1988	25	250	1	Copper	HVP-11 Source A	HVA-11 Source A
Medium Voltage Cable	North Loop Feed	Cables	(19) HVP-11 to HVS-11 Source B	Uniblend	13,200	15,000	EPR	1988	25	250	1	Copper	HVP-11 Source B	HVA-11 Source B
Medium Voltage Cable	North Loop Feed	Cables	(20) HVP-11 to XF-37	Uniblend								Copper		
Medium Voltage Cable	North Loop Feed	Cables	(21) HVP-3 to HVP-15 Source A	Uniblend	13,800	15,000	EPR	1988	352	250	1	Copper	HVP-3 Source A	HVP-15 Source A
Medium Voltage Cable	North Loop Feed	Cables	(22) HVP-3 to HVP-15 Source B	Uniblend	13,800	15,000	EPR	1988	352	250	1	Copper	HVP-3 Source B	HVP-15 Source B
Medium Voltage Cable	North Loop Feed	Cables	(23) HVP-15 to HVP-16 Source B	Uniblend	13,200	15,000	EPR	1988	226	250	1	Copper	HVP-15 Source B	HVP-16 Source B
Medium Voltage Cable	North Loop Feed	Cables	(24) HVP-15 to HVP-16 Source A	Uniblend	13,200	15,000	EPR	1988	226	250	1	Copper	HVP-15 Source A	HVP-16 Source A
Medium Voltage Cable	North Loop Feed	Cables	(25) HVP-16 to HVS-16 Source B	Uniblend	13,200	1	EPR	1988	25	250	1	Copper	HVP-16 Source B	HVS-16 Source B
Medium Voltage Cable	North Loop Feed	Cables	(26) HVP-16 to HVS-16 Source A	Uniblend	13,200	1	EPR	1988	25	250	1	Copper	HVP-16 Source A	HVS-16 Source A

TYPE	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUF - ACTUR ER	SYS VOLTAGE	VOLTAGE RATING	INSUL- ATION TYPE	CABLE DATE	CIRCUIT LENGTH (FT)	CONDUCT SIZE (KCMIL)	# OF CONDUCT ORS	CONDUCTOR MATERIAL	TERMINATION LOC - LINE	TERMINATION LOC - LOAD
Medium Voltage Cable	North Loop Feed	Cables	(27) HVS-16 to XF-119	Uniblend	13,200	15,000	EPR	1988	32	250	1	Copper	HVS-16	XF-119
Medium Voltage Cable	North Loop Feed	Cables	(28) hvs-16 TO xf-40	Uniblend								Copper		
Medium Voltage Cable	North Loop Feed	Cables	(29) HVP-15 to HVP-18 Source A	Uniblend	13,800	15,000	MV-90	1988	242	250	1	Copper	HVP-18 Source A	HVP-15 Source A
Medium Voltage Cable	North Loop Feed	Cables	(30) HVP-15 to HVP-18 Source B	Uniblend	13,800	15,000	MV-90	1988	242	250	1	Copper	HVP-18 Source B	HVP-15 Source B
Medium Voltage Cable	North Loop Feed	Cables	(31) HVP-18 to HVS-18 Source A	Uniblend	13,800	15,000	MV-90	1987	25	250	1	Copper	HVP-18 Source A	HVS-18 Source A
Medium Voltage Cable	North Loop Feed	Cables	(32) HVP-18 to HVS-18 Source B	Uniblend	13,800	15,000	MV-90	1987	25	250	1	Copper	HVP-18 Source B	HVS-18 Source B
Medium Voltage Cable	North Loop Feed	Cables	(33) HVP-18 to XF-49 Source A	Uniblend	13,800	15,000	MV-90	1988	140	250	1	Copper	HVP-18 Source A	XF-49 Source A
Medium Voltage Cable	North Loop Feed	Cables	(34) HVP-15 to HVP-20 Source A	Uniblend	13,200	15,000	EPR	1988	350	250	1	Copper	HVP-15 Source A	HVP-20 Source A
Medium Voltage Cable	North Loop Feed	Cables	(35) HVP-15 to HVP-20 Source B	Uniblend	13,200	15,000	EPR	1988	350	250	1	Copper	HVP-15 Source B	HVP-20 Source B
Medium Voltage Cable	North Loop Feed	Cables	(36) HVP-20 to HVS-20 Source B	Uniblend	13,200	15,000	MV-90	1988	0	250	1	Copper	HVP-20 Source B	HVS-20 Source B
Medium Voltage Cable	North Loop Feed	Cables	(37) HVP-20 to HVS-20 Source A	Uniblend	13,200	15,000	MV-90	1988	25	250	1	Copper	HVP-20 Source A	HVS-20 Source A
Medium Voltage Cable	North Loop Feed	Cables	(38) HVS-20 to XF-102	Uniblend	13,200	15,000	EPR	1988	185	250	1	Copper	HVS-20	XF-102
Medium Voltage Cable	North Loop Feed	Cables	(39) HVP-22 to HVP-20 Source B	Uniblend	13,200	15,000	MV-90	1988	141	250	1	Copper	HVP-22 Source B	HVP-20 Source B
Medium Voltage Cable	North Loop Feed	Cables	(40) HVP-22 to HVP-20 Source A	Uniblend	13,200	15,000	MV-90	1988	141	250	1	Copper	HVP-22 Source A	HVP-20 Source A
Medium Voltage Cable	North Loop Feed	Cables	(41) HVP-22 to HVP-23 Source B	Uniblend	13,200	15,000	MV-90	1988	215	250	1	Copper	HVP-22 Source B	HVP-23 Source B
Medium Voltage Cable	North Loop Feed	Cables	(42) HVP-22 to HVP-23 Source A	Uniblend	13,200	15,000	MV-90	1988	215	250	1	Copper	HVP-22 Source A	HVP-23 Source A
Medium Voltage Cable	North Loop Feed	Cables	(43) HVP-23 to HVP-24 Source A	Uniblend	13,200	15,000	MV-90	1988		250	1	Copper	HVP-23 Source A	HVP-24 Source A
Medium Voltage Cable	North Loop Feed	Cables	(44) HVP-23 to HVP-24 Source B	Uniblend	13,200	15,000	MV-90	1988	255	250	1	Copper	HVP-23 Source B	HVP-24 Source B
Medium Voltage Cable	North Loop Feed	Cables	(45) HVP-40 to HVP-24 Source B	Uniblend	13,200	15,000	EPR	1988	735	250	1	Copper	HVP-24 Source A	HVP-40 Source A
Medium Voltage Cable	North Loop Feed	Cables	(46) HVS-18 to XF-112	Uniblend	13,800	15,000	MV-90	1988	188	250	1	Copper	HVP-18	XF-112
Medium Voltage Cable	North Loop Feed	Cables	(47) HVP-40 to HVP-41 Source A	Uniblend	13,200	15,000	EPR	1988	265	250	1	Copper	HVP-40 Source A	HVP-41 Source A
Medium Voltage Cable	North Loop Feed	Cables	(48) HVS-41 to XF-12 Source A	Uniblend	13,200	15,000	EPR	1988	107	250	1	Copper	HVS-41 Source A	XF-12 Source A
Medium Voltage Cable	North Loop Feed	Cables	(49) HVP-41 to XF-16 Source A	Uniblend	13,200	15,000	EPR	1988	157	250	1	Copper	HVP-41 Source A	XF-16 Source A
Medium Voltage Cable	North Loop Feed	Cables	(50) HVP-41 to HVP-42 Source A	Uniblend	13,200	15,000	EPR	1988	215	250	1	Copper	HVP-41 Source A	HVP-42 Source A
Medium Voltage Cable	North Loop Feed	Cables	(51) HVP-42 to XF-17 Source A	Uniblend	13,200	15,000	EPR	1988	189	250	1	Copper	HVP-42 Source A	XF-17
Medium Voltage Cable	North Loop Feed	Cables	(52) HVP-42 to HVP-44 Source A	Uniblend	13,200	15,000	EPR	1988	426	250	1	Copper	HVP-42 Source A	HVP-44 Source A



TYPE	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUF - ACTURER	SYS VOLTAGE	VOLTAGE RATING	INSUL- ATION TYPE	CABLE DATE	CIRCUIT LENGTH (FT)	CONDUCT SIZE (KCMIL)	# OF CONDUCT ORS	CONDUCTOR MATERIAL	TERMINATION LOC - LINE	TERMINATION LOC - LOAD
Medium Voltage Cable	North Loop Feed	Cables	(53) HVP-44 to XF-19	Uniblend	13,200	15,000	EPR	1988	31	250	1	Copper	HVP-44 Source A	XF-19
Medium Voltage Cable	North Loop Feed	Cables	(54) HVP-44 to XF-62 Source A	Uniblend	13,200	15,000	EPR	1988	202	250	1	Copper	HVP-44 Source A	XF-62
Medium Voltage Cable	North Loop Feed	Cables	(55) HVP-27 to HVP-24 Source A	Uniblend	13,200	15,000	EPR	1988	650	250	1	Copper	HVP-27 Source A	HVP-24 Source A
Medium Voltage Cable	North Loop Feed	Cables	(56) HVP-27 to HVP-24 Source B	Uniblend	13,200	15,000	EPR	1988	650	250	1	Copper	HVP-27 Source B	HVP-24 Source B
Medium Voltage Cable	North Loop Feed	Cables	(57) HVP-27 to XF-6 Source A	Uniblend	13,200	15,000	EPR	1988	198	250	1	Copper	HVP-27 Source A	XF-6 Source A
Medium Voltage Cable	North Loop Feed	Cables	(58) HVP-27 to XF-6 Source B	Uniblend	13,200	15,000	EPR	1988	198	250	1	Copper	HVP-27 Source B	XF-6 Source B
Medium Voltage Cable	North Loop Feed	Cables	(59) HVP-27 to HVP-29 Source A	Uniblend	13,200	15,000	EPR	1988	204	250	1	Copper	HVP-27 Source A	HVP-29 Source A
Medium Voltage Cable	North Loop Feed	Cables	(60) HVP-27 to HVP-29 Source B	Uniblend	13,200	15,000	EPR	1988	204	250	1	Copper	HVP-27 Source B	HVP-29 Source B
Medium Voltage Cable	North Loop Feed	Cables	(61) HVP-29 to HVP-30 Source B	Uniblend	13,200	15,000	EPR	1988	363	250	1	Copper	HVP-29 Source B	HVP-30 Source B
Medium Voltahe Cable	North Loop Feed	Cables	(62) HVP-29 to HVP-30 Source A	Uniblend	13,200	15,000	EPR	1988	363	250	1	Copper	HVP-29 Source A	HVP-30 Source A
Medium Voltage Cable	North Loop Feed	Cables	(63) HVP-30 to XF-11 Source A	Uniblend	13,200	15,000	EPR	1988	30	250	1	Copper	HVP-30 Source A	XF-11
Medium Voltage Cable	North Loop Feed	Cables	(64) HVP-30 to XF-7 Source A	Uniblend	13,200	15,000	EPR	1988	87	250	1	Copper	HVP-30 Source A	XF-7 Source A
Medium Voltahe Cable	North Loop Feed	Cables	(65) HVP-30 to XF-7 Source B	Uniblend	13,200	15,000	EPR	1988	87	250	1	Copper	HVP-30 Source B	XF-7 Source B
Medium Voltage Cable	North Loop Feed	Cables	(66) HVP-29 to XF-5 Source A	Uniblend	13,200	15,000	EPR	1988	30	250	1	Copper	HVP-29 Source A	XF-5 Source A
Medium Voltage Cable	North Loop Feed	Cables	(67) HVP-29 to XF-5 Source B	Uniblend	13,200	15,000	EPR	1988	30	250	1	Copper	HVP-29 Source B	XF-5 Source B
Medium Voltage Cable	North Loop Feed	Cables	(68) HVP-29 to HVP-31 Source A	Uniblend	13,200	15,000	EPR	1988	387	250	1	Copper	HVP-29 Source A	HVP-31 Source A
Medium Voltage Cable	North Loop Feed	Cables	(69) HVP-29 to HVP-31 Source B	Uniblend	13,200	15,000	EPR	1988	387	250	1	Copper	HVP-29 Source B	HVP-31 Source B
Medium Voltage Cable	North Loop Feed	Cables	(70) HVP-31 to XF-3 Source A	Uniblend	13,200	15,000	EPR	1988	184	250	1	Copper	HVP-31 Source A	XF-3 Source A
Medium Voltage Cable	North Loop Feed	Cables	(71) HVP-31 to XF-3 Source B	Uniblend	13,200	15,000	EPR	1988	184	250	1	Copper	HVP-31 Source B	XF-3 Source B
Medium Voltage Cable	North Loop Feed	Cables	(72) HVP-31 to TX-2 Source A	Uniblend	13,200	15,000	EPR	1988	225	250	1	Copper	HVP-31 Source A	TX-2 Source A
Medium Voltage Cable	North Loop Feed	Cables	(73) HVP-31 to TX-2 Source B	Uniblend	13,200	15,000	EPR	1988	225	250	1	Copper	HVP-31 Source B	XF-2 Source B
Medium Voltage Cable	North Loop Feed	Cables	(74) HVP-31 to HVP-34 Source A	Uniblend	13,200	15,000	EPR	1988	363	250	1	Copper	HVP-31 Source A	HVP-34 Source A
Medium Voltage Cable	North Loop Feed	Cables	(75) HVS-SL1 to XF-K	Not Visible	13,200	15	N/A	Not Visible	0	Not Visible	1	Copper	HVS-SL1	XF-K
Medium Voltage Cable	North Loop Feed	Cables	(76) HVS-4 to XF-43	Uniblend	13,200	15,000	EPR	1988	52	250	1	Copper	HVS-41 Source A	XF-43
Medium Voltage Cable	North Loop Feed	Cables	(77) HVP-34 to XF-1 Source A	Uniblend	13,200	15,000	EPR	1988	31	250	1	Copper	HVP-34 Source A	XF-1
Medium Voltage Cable	North Loop Feed	Cables	(78) HVP-34 to HVP-36 Source A	Uniblend	13,200	15,000	EPR	1988	504	250	1	Copper	HVP-34 Source A	HVP-36 Source A

TYPE	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUF - ACTUR ER	SYS VOLTAGE	VOLTAGE RATING	INSUL- ATION TYPE	CABLE DATE	CIRCUIT LENGTH (FT)	CONDUCT SIZE (KCMIL)	# OF CONDUCT ORS	CONDUCTOR MATERIAL	TERMINATION LOC - LINE	TERMINATION LOC - LOAD
Medium Voltage Cable	North Loop Feed	Cables	(79) HVP-36 to XF-20 Source A	Uniblend	13,200	15,000	EPR	1988	32	250	1	Copper	HVP-36 Source A	XF-20
Medium Voltage Cable	North Loop Feed	Cables	(80) HVS-36 to XF-97 Source A	Uniblend	13,200	15,000	EPR	1988	225	250	1	Copper	HVS-36 Source A	XF-97 Source A
Medium Voltage Cable	North Loop Feed	Cables	(81) HVP-36 to XF-108 Source A	Uniblend	13,200	15,000	EPR	1988	244	250	1	Copper	HVP-36 Source A	XF-108
Medium Voltage Cable	North Loop Feed	Cables	(82) HVP-40 to XF-14 Source A	Uniblend	13,200	15,000	EPR	1988	20	250	1	Copper	HVP-40 Source A	XF-14 Source A
Medium Voltage Cable	North Loop Feed	Cables	(83) HVS-11 to XF-39	Uniblend	13,200	15,000	EPR	1988	25	250	1	Copper	HVS-11	XF-39
Medium Voltage Cable	North Loop Feed	Cables	(84) HVP-36 to HVS-36 Source A	Uniblend	13,200	15,000	EPR	1988	35	250	1	Copper	HVP-36 Source A	HVS-36 Source A
Medium Voltage Cable	North Loop Feed	Cables	(85) HVS-36 to XF-36 Source A	Uniblend	13,200	15,000	EPR	1988	0	250	1	Copper	HVS-36 Source A	XF-36
Medium Voltage Cable	North Loop Feed	Cables	(86) HVP-41 to HVS-41 Source A	Uniblend	13,200	15,000	EPR	1988	30	250	1	Copper	HVP-41 Source A	HVS-41 Source A
Medium Voltage Cable	North Loop Feed	Cables	(87) HVS-41 to XF-41 Source A	Uniblend	13,200	15,000	EPR	1988	30	250	1	Copper	HVS-41 Source A	XF-41 Source A
Medium Voltage Cable	North Loop Feed	Cables	(88) HVP-2 to HVS-2 Source A	Uniblend	13,200	15	MV-90	1990	0	250	1	Copper	HVP-2 Source A	HVS-2 Source A
Medium Voltage Cable	North Loop Feed	Cables	(89) HVP-2 to HVS-2 Source B	Uniblend	13,200	15	MV-90	1990	0	250	1	Copper	HVP-2 Source B	HVS-2 Source B
Medium Voltage Cable	North Loop Feed	Cables	(90) HVP-K to HVS-SL1 Source A	Rome Cable	13,200	15	N/A	?	0	250	1	Copper	HVP-K Source A	HVS-LS1 Source A
Medium Voltage Cable	North Loop Feed	Cables	(91) HVP-K to HVS-SL1 Source B	Rome Cable	13,200	15	N/A	?	0	250	1	Copper	HVP-K Source B	HVS-SL1 Source B
Medium Voltage Cable	North Loop Feed	Cables	(92) HVS-SL1 to XF-SL1	Not Visible	13,200	15	N/A	?	0	?	1	Copper	HVS-SL1	XF-SL1
Medium Voltage Cable	North Loop Feed	Cables	(93) HVS-2 to XF-1301	Uniblend	13,200	15	MV-90	1988	0	250	1	Copper	HVS-2	XF-1301
Medium Voltage Cable	North Loop Feed	Cables	(94) HVP-22 to HVS-22 Source A	Pirella	13,200	15,000	MV-105	1998	0	250	1	Copper	HVP-22 Source A	HVS-22 Source A
Medium Voltage Cable	North Loop Feed	Cables	(95) HVP-22 to HVS-22 Source B	Pirella	13,200	15,000	MV-105	1998	0	250	1	Copper	HVP-22 Source B	HVS-22 Source B
Medium Voltage Cable	North Loop Feed	Cables	(96) HVS-22 to CL1 Xfmer	Pirella	13,200	15,000	MV-120	1998	0	250	1	Copper	HVS-22	CL1 Xfmer
Medium Voltage Cable	North Loop Feed	Cables	(97) HVP-27 to XF-27	Uniblend	13,200	15,000	EPR	1987	20	250	1	Copper	HVP-27	XF-27
Medium Voltage Cable	North Loop Feed	Cables	(98) HVP-8 to HVS-146	Uniblend	13,200	15,000	EPR	2013	1200	1/0 AWG	1	Copper	HVP-8	HVS-146
Medium Voltage Cable	North Loop Feed	Cables	(99) HVS-146 to XF-146	Uniblend	13,200	15,000	EPR	2013	30	1/0 AWG	1	Copper	HVS-146	XF-146
Medium Voltage Cable	North Loop Feed	HVP-15 to HVP-3 Source A	(22) HVP-3 to HVP-15 Source B	Uniblend	13,800	15,000	EPR	1988	352	250	1	Copper	HVP-3 Source B	HVP-15 Source B

TYPE	SUBSTATION	EQUIPMENT POSITION	DEVICE/ FEEDER ID	MANUFACTURER	TYPE	MODEL/STYLE #	SYS VOLTAGE	VOLTAGE RATING	CURRENT RATING	BIL (KV)
Medium Voltage Switch	North Loop Feeds	Switches	HVS-2 A	Cooper - Kyle	N/A	R-Vac 10	13,800	15,000	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-2 B	Cooper - Kyle	N/A	R-Vac 10	13,800	15,000	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-4 A	RTE	N/A	Most 10		15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-4 B	RTE	N/A	Most 10		15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-11 A	RTE	N/A	Most 10		15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-11 B	RTE	N/A	Most 10		15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-16 A	RTE	N/A	Most 10		15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-16 B	RTE	N/A	Most 10		15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-18 A	RTE	N/A	Most 10	13,800	15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-18 B	RTE	N/A	Most 10	13,800	15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-20 A	RTE	N/A	Most 10	13,800	15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-20 B	RTE	N/A	Most 10	13,800	15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-36 A	S&C Electric	N/A	N/A	13,800	14,400	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-36 B	S&C Electric	N/A	N/A	13,800	14,400	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-41 A	S&C Electric	N/A	PMH-6		15,500	600	
Medium Voltage Switch	North Loop Feeds	Switches	HVS-41 B	S&C Electric	N/A	PMH-6		15,500	600	
Medium Voltage Switch	North Loop Feeds	Switches	HVA-112	Eaton	MVS 2	1D780050G32	13,800	15,000	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVA-146	Square D	HVL	N/A	13,800	15,000	1200	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-A (A)	RTE	N/A	Most 10	13,800	15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-A (B)	RTE	N/A	Most 10	13,800	15,500	600	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-CLA (A)	Scott Engineering	N/A	160125-0	13,800	13,800	200	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-CL1 (B)	Scott Engineering	N/A	160125-0	13,800	13,800	200	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-SL1 A	Federal Pacific / FPE	N/A	N/A	14,400	17,000	200	95,000
Medium Voltage Switch	North Loop Feeds	Switches	HVS-SL1 B	Federal Pacific / FPE	N/A	N/A	14,400	17,000	200	95

Bldg 13 (Below)

reference	Manuf.	MODEL #	TRIP	voltage
M2B 3200A	Eaton	MDS362	3200A	480
F3B 1600A	Eaton	MDN616	800A	480
F4B 1600A , MDN616	Eaton	MDN616	1600A	480
F5B 1600A	Eaton	MDN616	400A	480
F3C 1600A	Eaton	MDN616	800A	480
F4C 1600A	Eaton	MDN616	600A	480

F5C    1600A	Eaton	MDN616	400A	480
F3D    2000A	Eaton	MDN620	1600A	480
F4D    1600A	Eaton	MDN616	200A	480
East transformer	Eaton	Ser# 1359002223		13.2k/480
<b>WEST SWITCHBOARD BREAKERS</b>				
M4B    3200A	Eaton	MDN632	3200A	480
F1B    1600A	Eaton	MDN616	800A	480
F2B    1600A	Eaton	MDN616	400A	480
F1C    1600A	Eaton	MDN616	400A	480
F2C    1600A	Eaton	MDN616	400A	480
F3C    1600A	Eaton	MDN616	1600A	480
F1D    2000A	Eaton	MDN620	2000A	480
F2D    1600A	Eaton	MDN616	400A	480
West transformer	Cooper Power	Ser# 1359002211		13.2k/480

## End of Option Year Two