

715-2022 NEWPCC Switchyard Equipment List

No.	Asset Class Type	CODE, Asset Class Type	Asset Class Description	Asset Class	Type	CODE, Asset Type	Asset Type	Maintenance Code	Tag ID	Model	Description	Geo-Location	Drawing	Bank	Group	Maintenance Reference
1	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	RESISTOR, Ground	WW-RES	Ground grid	15	Yard Potential Ground	Underground Rod	Electrical Substation	Switchyard underground	1-0101-EGRD-E001 1-0101-EGRD-E003 1-0101-EGRD-E006	1 & 2	Switchyard underground1 & 2	CSA 2463-18 P199 NETA MTS- 2019 P137-138
Bank 1																
2	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	SWITCH, Disconnect	WW-SWIT_DI	Disconnect Switch	3	DS-E7013	EMSPEC VB1	66kV, 350 BIL, 1200A, 40 kA	Switchyard	1-0101-ESLD-E001 1-0101-ESLD-E002 1-0101-AILD-E011 1-0101-EWDG-E003	1	Switchyard1	CSA 2463-18 P188-190 NETA MTS- 2019 P49-61 NFA 708 P156 Manual page 21
3	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-BREAKER	Circuit Breaker	WW-BREAKER	SF6 Circuit Breaker	2	CB-E7013	Siemens SPS-2	69kV, 1200A 40KA	Switchyard	1-0101-ESLD-E001 1-0101-ESLD-E002 1-0101-AILD-E009 1-0101-AILD-E013 1-0101-EWDG-E001	1	Switchyard1	CSA 2463-18 P182-187 NETA MTS- 2019 P67-69 NFA 708 P152-154 Manual page 19- 33
4	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Surge Arrester		Transient Voltage Surge Suppressor	7	TVSS-E7013-1	Siemens 3EL1	66kV 57kV MCOV	Switchyard	1-0101-ESLD-E0002	1	Switchyard1	CSA 2463-18 P98 NETA MTS- 2019 P177-180 NFA 708 P94
5	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Potential Transformer	1	PT-E7013	Trench CCVT	40.25 kv/120V, 0.075 kVA, Class 0.3Y/3PW	Switchyard	1-0101-ESLD-E002 1-0101-EWDG-E005	1	Switchyard1	CSA 2463-18 P112 NETA MTS- 2019 P112-114 NFA 708 P159 Manual page 6 & 7
6	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Bushing Type Current Transformer	1	CT-E7013-A-1		3 x 600/5 2.5L400. CT for RLY-E7013-A	Switchyard	1-0101-ESLD-E002 1-0101-AILD-E005 1-0101-ETLD-E001 1-0101-EWDG-E007	1	Switchyard1	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
7	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Bushing Type Current Transformer	1	CT-E7013-B-1		3 x 600/5 2.5L400. CT for RLY-E7013-B	Switchyard	1-0101-ESLD-E002 1-0101-AILD-E005 1-0101-ETLD-E001 1-0101-EWDG-E007	1	Switchyard1	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
8	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	Spare CT		3 x 600/400/100-5 for XFMR -E7013	Switchyard	1-0101-ESLD-E002 1-0101-AILD-E005 1-0101-ETLD-E001 1-0101-EWDG-E007	1	Switchyard1	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
9	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	Spare CT		3 x 600/400/100-5 for XFMR -E7013	Switchyard	1-0101-ESLD-E002 1-0101-AILD-E005 1-0101-ETLD-E001 1-0101-EWDG-E007	1	Switchyard1	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
10	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Surge Arrester		Transient Voltage Surge Suppressor	7	TVSS-E7013-2	Siemens 3EL1	66kV 57kV MCOV	Switchyard	1-0101-ESLD-E0002	1	Switchyard1	CSA 2463-18 NETA MTS- 2019 P98-105 NFA 708 P160
11	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	CT-E7013-B-3		1 x 200-5 C100. CT for RLY-E7013 B Protection (SEL 787-3E)	Switchyard	1-0101-ESLD-E002 1-0101-AILD-E005 1-0101-ETLD-E001 1-0101-EWDG-E007	1	Switchyard1	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
12	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	CT-E7013-A-3		1 x 200-5 C100 CT for RLY-E7013 A Protection (GE T60)	Switchyard	1-0101-ESLD-E002 1-0101-AILD-E005 1-0101-ETLD-E001 1-0101-EWDG-E007	1	Switchyard1	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
13	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Liquid Filled	WW-XFMR_LI	Transformer	1	XFMR-E7013	Northern Transformer NTC-2935-TX	delta/Wye 66/12.47kV, 3P,60Hz 23/30MVA ONAN/ONAF OLTC-12%/+8% Z=7.799% Dyn1 DGA	Switchyard	1-0101-ESLD-E001 1-0101-ESLD-E002 1-0101-AILD-E005 1-0101-ETLD-E001 1-0101-EWDG-E007	1	Switchyard1	CSA 2463-18 P86-87, P177-179 NETA MTS- 2019 P34-37 NFA 708 P56, P111, P165 Manual page 16 -19
14	Major Electrical Equipment	6-MEEQ	Transformer	WW-PWR EQPT	RESISTOR, Neutral Ground	WW-RES_NGR	NGR	9	NGR-E7013	Mega Resistors 50777	Neutral Grounding Resistor for XFMR-E7013	Switchyard	1-0101-ESLD-E001	1	Switchyard1	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
15	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	CT-E7013-1		1 x 400-5 C100. CT for NGR-E7013	Switchyard	1-0101-ESLD-E002 1-0101-AILD-E005 1-0101-ETLD-E001 1-0101-EWDG-E007	1	Switchyard1	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
16	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Liquid Filled	WW-XFMR_LI	Transformer	1	XFMR-E7111	Northern Transformer NTC-2937-TX	12.47kV/4.16kV 3P,60Hz, 5MVA, KNAN, Z=5.541%, Dyn1	Switchyard	1-0101-ESLD-E001 1-0101-ESLD-E004 1-0101-EWDG-E014 1-0101-AILD-E007	1	Switchyard1	CSA 2463-18 P86-87, P177-179 NETA MTS- 2019 P34-37 NFA 708 P56, P111, P165 Manual page 16 -19
17	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	CT-7111-1		1 x 200 -5 C100	Switchyard	1-0101-ESLD-E001 1-0101-ESLD-E004 1-0101-EWDG-E009	1	Switchyard1	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
18	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	RESISTOR, Neutral Ground	WW-RES_NGR	NGR	9	NGR -E7111	Mega Resistors 50604	Neutral Grounding Resistor for XFMR-E7111	Switchyard	1-0101-ESLD-E001 1-0101-ESLD-E004 1-0101-EWDG-E009	1	Switchyard1	CSA 2463-18 P133-135 NETA MTS- 2019 P94-97 NFA 708 P83-84
19	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	CT-E7111-2		CT for NGR-E7111	Switchyard	1-0101-ESLD-E004	1	Switchyard1	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
Bank 2																
20	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	SWITCH, Disconnect	WW-SWIT_DI	Disconnect Switch	3	DS-E7023	EMSPEC VB1	66kV, 350 BIL, 1200A, 40 kA	Switchyard	1-0101-ESLD-E001 1-0101-ESLD-E003 1-0101-AILD-E011 1-0101-EWDG-E004	2	Switchyard2	CSA 2463-18 P188-190 NETA MTS- 2019 P49-61 NFA 708 P156 Manual page 21
21	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-BREAKER	Circuit Breaker	WW-BREAKER	SF6 Circuit Breaker	2	CB-E7023	Siemens SPS-2	69kV, 1200A 40KA	Switchyard	1-0101-ESLD-E001 1-0101-ESLD-E003 1-0101-EWDG-E002 1-0101-EWDG-E018 1-0101-AILD-E010	2	Switchyard2	CSA 2463-18 P182-187 NETA MTS- 2019 P67-69 NFA 708 P152-154 Manual page 19- 33
22	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Surge Arrester		Transient Voltage Surge Suppressor	7	TVSS-E7023-1	Siemens 3EL1	66kV 57kV MCOV	Switchyard	1-0101-ESLD-E003	2	Switchyard2	CSA 2463-18 P98 NETA MTS- 2019 P177-180 NFA 708 P94
23	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Potential Transformer	1	PT-E7023	Trench CCVT	40.25 kv/120V, 0.075 kVA, Class 0.3Y/3PW	Switchyard	1-0101-ESLD-E003 1-0101-EWDG-E006	2	Switchyard2	CSA 2463-18 P112 NETA MTS- 2019 P112-114 NFA 708 P159 Manual page 6 & 7
24	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Bushing Type Current Transformer	1	CT-E7023-A-1		3 x 600/5 2.5L400. CT for RLY-E7023-A	Switchyard	1-0101-ESLD-E003 1-0101-AILD-E006 1-0101-ETLD-E001 1-0101-EWDG-E008	2	Switchyard2	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
25	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Bushing Type Current Transformer	1	CT-E7023-B-1		3 x 600/5 2.5L400. CT for RLY-E7023-B	Switchyard	1-0101-ESLD-E003 1-0101-AILD-E006 1-0101-ETLD-E001 1-0101-EWDG-E008	2	Switchyard2	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
26	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	Spare CT		3 x 600/400/100-5 for XFMR -E7023	Switchyard	1-0101-ESLD-E003 1-0101-AILD-E006 1-0101-ETLD-E001 1-0101-EWDG-E008	2	Switchyard2	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
27	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	Spare CT		3 x 600/400/100-5 for XFMR -E7023	Switchyard	1-0101-ESLD-E003 1-0101-AILD-E006 1-0101-ETLD-E001 1-0101-EWDG-E008	2	Switchyard2	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
28	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Surge Arrester		Transient Voltage Surge Suppressor	7	TVSS-E7023-2	Siemens 3EL1	66kV 57kV MCOV	Switchyard	1-0101-ESLD-E003 1-0101-AILD-E006 1-0101-ETLD-E001 1-0101-EWDG-E008	2	Switchyard2	CSA 2463-18 NETA MTS- 2019 P98-105 NFA 708 P160
29	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	CT-E7023-B-3		1 x 200-5 C100. CT for RLY-E7023 B Protection (SEL 787-3E)	Switchyard	1-0101-ESLD-E003 1-0101-AILD-E006 1-0101-ETLD-E001 1-0101-EWDG-E008	2	Switchyard2	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
30	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	CT-E7023-A-3		1 x 200-5 C100 CT for RLY-E7023 A Protection (GE T60)	Switchyard	1-0101-ESLD-E003 1-0101-AILD-E006 1-0101-ETLD-E001 1-0101-EWDG-E008	2	Switchyard2	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFA 708 P159
31	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Liquid Filled	WW-XFMR_LI	Transformer	1	XFMR-E7023	Northern Transformer NTC-2935-TX	delta/Wye 66/12.47kV, 3P,60Hz 23/30MVA ONAN/ONAF OLTC-12%/+8% Z=7.833% Dyn1 DGA	Switchyard	1-0101-ESLD-E003 1-0101-AILD-E006 1-0101-ETLD-E001 1-0101-EWDG-E008	2	Switchyard2	CSA 2463-18 P86-87, P177-179 NETA MTS- 2019 P34-37 NFA 708 P56, P111, P165 Manual page 16 -19

32	Major Electrical Equipment	6-MEEQ	Transformer	WW-ELEC PWR EQPT	RESISTOR, Neutral Ground	WW-XFMR_NGR	NGR	1	NGR-E7023	Mega Resistors 50777	Neutral Grounding Resistor for XFMR-E7023	Switchyard	1-0101-ESLD-E003	2	Switchyard2	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFPA 70B P159
33	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	CT-E7023-1		1 x 400-5 C100. CT for NGR-E7023	Switchyard	1-0101-ESLD-E003 1-0101-AILD-E006 1-0101-ETLD-E001 1-0101-EWDG-E008	2	Switchyard2	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFPA 70B P159
34	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Liquid Filled	WW-XFMR_LI	Transformer	1	XFMR-E7121	Northern Transformer NTC-2937-TX	12.47kV/4.16kV 3P,60Hz, 5MVA, KNAN, Z=5.541%, Dyn1	Switchyard	1-0101-ESLD-E001 1-0101-ESLD-E004 1-0101-AILD-E008 1-0101-EWDG-E014	2	Switchyard2	CSA 2463-18 P86-87, P177-179 NETA MTS- 2019 P34-37 NFPA 70B P56, P111, P165
35	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	CT-7121-1		1 x 200 -5 C100	Switchyard	1-0101-ESLD-E004	2	Switchyard2	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFPA 70B P159
36	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	RESISTOR, Neutral Ground	WW-RES_NGR	NGR	9	NGR -E7121	Mega Resistors 50604	Neutral Grounding Resistor for XFMR-E7121	Switchyard	1-0101-ESLD-E004	2	Switchyard2	CSA 2463-18 P86-87, P177-179 NETA MTS- 2019 P34-37 NFPA 70B P56, P111, P165 Manual page 16 - 19
37	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, instrument	WW-XFMR_DR	Current Transformer	1	CT-E7121-2		CT for NGR-E7121	Switchyard	1-0101-ESLD-E004	2	Switchyard2	CSA 2463-18 P194-198 NETA MTS- 2019 P109-111 NFPA 70B P159

715-2022 SEWPCC Switchyard Equipment List

No.	Asset Class Type	CODEL Asset Class Type	Asset Class Description	Asset Class	Type	CODEL Asset Type	Asset Type	Manufacturer Code	Tag ID	Model	Description	Site Location	Device	Bank #	Group	Manual Reference
1	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	RESISTOR, Ground	WW-RES	Ground grid	16	Yard Potential Ground	Underground Rod	Electrical Substation	Switchyard underground	1-0102-EGRD-Y001 1-0102-EGRD-Y002 1-0102-EGRD-Y003 1-0102-EGRD-Y004	1 & 2	Switchyard underground1 & 2	
Bank 1																
2	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	SWITCH, Disconnect	WW-SWIT_TR	Circuit Switcher	3	CS-Y701	SS-CSH-B	66kV circuit switcher for XFMR-Y701	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y001 1-0102-EWDG-Y003 1-0102-ETLD-Y001	1	East Side of Switchyard1	OBM Manual #36 P66-85 CSA 2463-18 P188-190 NETA MTS-2019 P91-93 NFPA 70B P156
3	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Surge Arrester		Surge Arrester	7	LA-Y701		72kV Class 57kV MCOV	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	1	East Side of Switchyard1	CSA 2463-18 P98 NETA MTS-2019 P177-180 NFPA 70B P94
4	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Instrument	WW-XFMR_DR	Current Transformer	1	XFMR-Y701.CT-1		600.5A MR, C200 TAP-200.5A	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	1	East Side of Switchyard1	CSA 2463-18 P194-198 NETA MTS-2019 P109-111 NFPA 70B P159
5	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Instrument	WW-XFMR_DR	Current Transformer	1	XFMR-Y701.CT-2		600.5A MR, C200 TAP-600.5A	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	1	East Side of Switchyard1	CSA 2463-18 P194-198 NETA MTS-2019 P109-111 NFPA 70B P159
6	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Instrument	WW-XFMR_DR	Current Transformer	1	XFMR-Y701.CT-3		600.5A MR, C200 TAP-50.5A	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	1	East Side of Switchyard1	CSA 2463-18 P194-198 NETA MTS-2019 P109-111 NFPA 70B P159
7	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Liquid Filled	WW-XFMR_LI	Transformer	1	XFMR-Y701	PTI Transformers	10 MVA, KNAN 66kV-12.47kV DYN-1	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y001 1-0102-EWDG-Y003 1-0102-ETLD-Y001 1-0102-ELTG-Y001	1	East Side of Switchyard1	OBM Manual #12 P26-34 CSA 2463-18 P86-87, P177-179 NETA MTS-2019 P34-37 NFPA 70B P56, P111, P165
8	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Relay		Relay	6	RLY-Y701-1	SEL-787	transformer protection relay for XFMR-Y701	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y001 1-0102-EWDG-Y003 1-0102-ETLD-Y001	1	East Side of Switchyard1	OBM Manual #15 P158-159, P563-577 OBM Manual #42 P554-571 CSA 2463-18 NETA MTS-2019 P98-105 NFPA 70B P160
9	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Relay		Relay	6	RLY-Y701-3	QUALITROL MODEL 909 SEAL-IN RELAY	XFMR-Y701 lockout relay	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y001	1	East Side of Switchyard1	OBM Manual #15 P158-159, P563-577 OBM Manual #42 P554-571 CSA 2463-18 NETA MTS-2019 P98-105 NFPA 70B P160
10	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Relay		Relay	6	RLY-Y701-11	SEL	XFMR-Y701 lockout relay	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y001	1	East Side of Switchyard1	OBM Manual #15 P158-159, P563-577 OBM Manual #42 P554-571 OBM Manual #44 P293-294 CSA 2463-18 NETA MTS-2019 P98-105 NFPA 70B P160
11	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	RESISTOR, Neutral Ground	WW-RES_NGR	Neutral Grounding Resistor	9	NGR-Y701		NGR-Y701.CT 200.5 C200NGR-Y701.RES 100A, NGR-Y701.SR ER-15kV	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	1	East Side of Switchyard1	OBM Manual #79 P7 CSA 2463-18 P133-135 NETA MTS-2019 P94-97 NFPA 70B P83-84
12	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Instrument	WW-XFMR_DR	Current Transformer	1	NGR-Y701.CT		CT for NGR-Y701	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	1	East Side of Switchyard1	OBM Manual #79 P7 CSA 2463-18 P194-198 NETA MTS-2019 P109-111 NFPA 70B P159
13	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Relay		Relay	6	RLY-Y701-2	Bender SE-330	Ground Fault Relay for NGR-Y701	East Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y001 1-0102-ETLD-Y001	1	East Side of Switchyard1	OBM Manual #15 P158-159, P563-577 OBM Manual #42 P554-571 OBM Manual #44 P293-294 CSA 2463-18 NETA MTS-2019 P98-105 NFPA 70B P160
Bank 2																
14	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	SWITCH, Disconnect	WW-SWIT_TR	Circuit Switcher	3	CS-Y702	SS-CSH-B	66kV circuit switcher for XFMR-Y702	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y002 1-0102-EWDG-Y004 1-0102-ETLD-Y001	2	West Side of Switchyard2	OBM Manual #36 P66-85 CSA 2463-18 P188-190 NETA MTS-2019 P91-93 NFPA 70B P156
15	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Surge Arrester		Surge Arrester	7	LA-Y702		72kV Class 57kV MCOV	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	2	West Side of Switchyard2	CSA 2463-18 P98 NETA MTS-2019 P177-180 NFPA 70B P94
16	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Instrument	WW-XFMR_DR	Current Transformer	1	XFMR-Y702.CT-1		600.5A MR, C200 TAP-200.5A	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	2	West Side of Switchyard2	CSA 2463-18 P194-198 NETA MTS-2019 P109-111 NFPA 70B P159
17	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Instrument	WW-XFMR_DR	Current Transformer	1	XFMR-Y702.CT-2		600.5A MR, C200 TAP-600.5A	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	2	West Side of Switchyard2	CSA 2463-18 P194-198 NETA MTS-2019 P109-111 NFPA 70B P159
18	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Instrument	WW-XFMR_DR	Current Transformer	1	XFMR-Y702.CT-3		600.5A MR, C200 TAP-50.5A	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	2	West Side of Switchyard2	CSA 2463-18 P194-198 NETA MTS-2019 P109-111 NFPA 70B P159
19	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Liquid Filled	WW-XFMR_LI	Transformer	1	XFMR-Y702	PTI Transformers	10 MVA, KNAN 66kV-12.47kV DYN-1	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y002 1-0102-EWDG-Y004 1-0102-ETLD-Y001 1-0102-ELTG-Y001	2	West Side of Switchyard2	OBM Manual #12 P26-34 CSA 2463-18 P86-87, P177-179 NETA MTS-2019 P34-37 NFPA 70B P56, P111, P165
20	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Relay		Relay	6	RLY-Y702-1	SEL-787	Transformer protection relay for XFMR-Y702	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y002 1-0102-ETLD-Y001	2	West Side of Switchyard2	OBM Manual #15 P158-159, P563-577 OBM Manual #42 P554-571 OBM Manual #44 P293-294 CSA 2463-18 NETA MTS-2019 P98-105 NFPA 70B P160
21	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Relay		Relay	6	RLY-Y702-3	QUALITROL MODEL 909 SEAL-IN RELAY	XFMR-Y702 lockout relay	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y002	2	West Side of Switchyard2	OBM Manual #15 P158-159, P563-577 OBM Manual #42 P554-571 OBM Manual #44 P293-294 CSA 2463-18 NETA MTS-2019 P98-105 NFPA 70B P160
22	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Relay		Relay	6	RLY-Y702-11	SEL	XFMR-Y702 lockout relay	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y002	2	West Side of Switchyard2	OBM Manual #15 P158-159, P563-577 OBM Manual #42 P554-571 OBM Manual #44 P293-294 CSA 2463-18 NETA MTS-2019 P98-105 NFPA 70B P160
23	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	RESISTOR, Neutral Ground	WW-RES_NGR	Neutral Grounding Resistor	9	NGR-Y702		NGR-Y702.CT 200.5 C200,NGR-Y702.RES 100A, NGR-Y702.SR ER-15kV	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	2	West Side of Switchyard2	OBM Manual #79 P7 CSA 2463-18 P133-135 NETA MTS-2019 P94-97 NFPA 70B P83-84
24	Major Electrical Equipment	6-MEEQ	Transformer	WW-TRANSFORMER	TRANSFORMER, Instrument	WW-XFMR_DR	Current Transformer	1	NGR-Y702.CT		CT for NGR-Y702	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-ETLD-Y001	2	West Side of Switchyard2	OBM Manual #79 P7 CSA 2463-18 P194-198 NETA MTS-2019 P109-111 NFPA 70B P159
25	Major Electrical Equipment	6-MEEQ	Electrical Power Distribution Equipment	WW-ELEC PWR EQPT	Relay		Relay	6	RLY-Y702-2	Bender SE-330	Ground Fault Relay for NGR-Y702	West Side of Switchyard	1-0102-ESLD-Y001 1-0102-EWDG-Y002 1-0102-ETLD-Y001	2	West Side of Switchyard2	OBM Manual #15 P158-159, P563-577 OBM Manual #42 P554-571 OBM Manual #44 P293-294 CSA 2463-18 NETA MTS-2019 P98-105 NFPA 70B P160