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PROJECT INFORMATION

SCHEME NAME: Mookodi 1st 500MVA Transformer Project
PROJECT NAME: Mookodi 1st 500MVA Transformer Project
SUBSTATION NAME: Mookodi MTS
OPERATING UNIT: Northern Cape Grid
PROJECT NUMBER: N.ETMOOKO.C.NW.INT.TE.PT

RELATED/SUPPORTING DOCUMENTS

STATION ELECTRIC DIAGRAM: Moo21P05-SE-D6
CONTROL ROOM LAYOUT: 19.18/31652

Revision: 1
Revision Control: Rev. 1 First issue

	Designation	Name	Signature	Date
Compiled by	PTM&C PROJECT ENGINEER	Christinah Mohloki		2023/06/09
Received by	PROJECT MANAGER	Dershin Govender		

AC RETICULATION

From	To	Function	Cable Type	No of
Auxiliary Transformer 14	TRANSFORMER 14 TDB	AC	BVX4QCV	2
TRANSFORMER 14 TDB	TRANSFORMER 13 TDB	AC	BVX4QCV	2
AC BOARD	TRANSFORMER 14 TDB	AC	BVX4NCV	2
TRANSFORMER 14 TDB	TRANSFORMER 14 MARSHALLING KIOSK	AC	BVX4LCV	1
TRANSFORMER 14 TDB	TRANSFORMER 14 TAP CHANGE DRIVE	AC	BVX4ECV	1

TRANSFORMER 14 JB

JB-M1	MK	DC	BVX7DCV	1
JB-M 2	MK	DC	BVX19DCV	1
JB-M 2	MK	DC	BVX19DCV	1
JB-COM	MK	DC	BVX19DCV	1
JB-COM	MK	DC	BVX19DCV	1
JB-M1	MK	CT	BVX19DCV	1
JB-M1	MK	CT	BVX19DCV	1
JB-M2	MK	CT	BVX19DCV	1
JB-M2	MK	CT	BVX19DCV	1
JB-COM	DGA	DC	BVX7DCV	1
MK	DGA	AC	BVX4ECV	1
MK	Drykeep	AC	BVX4ECV	1
JB-COM	Sergi	DC	BVX19DCV	1
JB-M2	TCD	DC	BVX19DCV	1
JB-M2	TCD	DC	BVX19DCV	1
JB-COM	Aux Trfr	Aux Trfr	BVX12DCV	1
JB-COM	MK	Cooler Control	BVX19DCV	1
JB-M1	Trfr RP- M1	DC	BVX2ECV	1
JB-M2	Trfr RP- M2	DC	BVX2ECV	1
JB-COM	PLUGBOX	AC	BVX2ECV	1
MK	SERGI	AC	BVX4ECV	1
JB-M1	DIP	FO	12MM HDD	1
JB-M2	DIP	FO	12MM HDD	1
JB-M2	Trfr TCP	FO	12MM HDD	1

TRANSFORMER 14 400/132kV BREAKER JB MAIN 1

JB-M1	CB 1-R	Status	BVX12DCV	1
JB-M1	CB 1-W	Status	BVX12DCV	1
JB-M1	CB 1-B	Status	BVX12DCV	1
JB-M1	Iso BB1 R	Status	BVX7DCV	1
JB-M1	Iso BB1 W	Status	BVX7DCV	1
JB-M1	Iso BB1 B	Status	BVX7DCV	1
JB-M1	Iso BB2	Status	BVX7DCV	1
JB-M1	ESCB2	Status	BVX7DCV	1
JB-M1	EST	Status	BVX7DCV	1

JB-M1	CT1-R	CT Cores	BVX7DCV	1
JB-M1	CT1-W	CT Cores	BVX7DCV	1
JB-M1	CT1-B	CT Cores	BVX7DCV	1
JB-M1	VTBB1	DC,MCB,Trip	BVX2ECV	1
JB-M1	TRFR 1 RP M1	DC Supply,EM Trip	BVX12ECV	1
JB-M1	TRFR 1 RP M1	FO	12MM HDD	1

TRANSFORMER 14 400/132kV BREAKER JB MAIN 2

JB-M2	CB 1-R	Status	BVX12DCV	1
JB-M2	CB 1-W	Status	BVX12DCV	1
JB-M2	CB 1-B	Status	BVX12DCV	1
JB-M2	Iso BB1 R	Status	BVX7DCV	1
JB-M2	Iso BB1 W	Status	BVX7DCV	1
JB-M2	Iso BB1 B	Status	BVX7DCV	1
JB-M2	Iso BB2	Status	BVX7DCV	1
JB-M2	Iso T	Status	BVX7DCV	1
JB-M2	ESCB2	Status	BVX7DCV	1
JB-M2	EST	Status	BVX7DCV	1
JB-M2	CT1-R	CT Cores	BVX7DCV	1
JB-M2	CT1-W	CT Cores	BVX7DCV	1
JB-M2	CT1-B	CT Cores	BVX7DCV	1
JB-M2	TRFR 2 RP M2	DC Supply,EM Trip	BVX12ECV	1
JB-M2	TRFR 2 RP M2	FO	12MM HDD	1

TRANSFORMER 14 400kV BREAKER JB COMMON

JB-COM	CB 1-R	Heater Supply R	BVX2ECV	1
JB-COM	CB 1-W	Heater Supply W	BVX2ECV	1
JB-COM	CB 1-B	Heater Supply B	BVX2ECV	1
JB-COM	CB 1-R	Spring Rwd,Control & Motor	BVX19DCV	1
JB-COM	CB 1-W	Spring Rwd,Control & Motor	BVX19DCV	1
JB-COM	CB 1-B	Spring Rwd,Control & Motor	BVX19DCV	1
JB-COM	Iso BB1 R	Heater Supply	BVX2ECV	1
JB-COM	Iso BB1 W	Heater Supply	BVX2ECV	1
JB-COM	Iso BB1 B	Heater Supply	BVX2ECV	1
JB-COM	Iso BB1 R	Control & Motor	BVX12DCV	1
JB-COM	Iso BB1 W	Control & Motor	BVX12DCV	1
JB-COM	Iso BB1 B	Control & Motor	BVX12DCV	1
JB-COM	ESCB2	Heater Supply	BVX2ECV	1
JB-COM	ES2T	Heater Supply	BVX2ECV	1
JB-COM	Plug Box	AC Heater & Lamp Supply	BVX2ECV	1
JB-COM	DC Board	DC Motor & SR Supply	BVX4HCV	1
JB-COM	VTBB	AC HEATER	BVX2ECV	1

TRANSFORMER 14 PROTECTION PANEL MAIN 1

Trfr RP-M1	400kV BB 1 VT JB	HV VT	BVX4ECV	1
Trfr RP-M1	132kV Trfr VT JB	MV Trfr VT	BVX4ECV	1
Trfr RP-M1	Trfr JB	REF CT	BVX4ECV	1

Trfr RP-M1	Trfr JB	Tertiary CT	BVX4ECV	1
Trfr RP-M1	400kV Buszone Panel	HV Buszone	BVX7DCV	1
Trfr RP-M1	132kV Buszone Panel	MV Buszone	BVX7DCV	1
Trfr RP-M1	DC Board	DC Supply	BVX2ECV	1
Trfr RP-M1	AC Board	230V AC EL	BVX2ECV	1

TRANSFORMER 14 PROTECTION PANEL MAIN 2

Trfr RP-M2	400kV BB 1 VT JB	HV VT	BVX4ECV	1
Trfr RP-M2	132kV Trfr VT JB	MV Trfr VT	BVX4ECV	1
Trfr RP-M2	Trfr JB	REF CT	BVX4ECV	1
Trfr RP-M2	Trfr JB	Tertiary CT	BVX4ECV	1
Trfr RP-M2	400kV Buszone Panel	HV Buszone	BVX7DCV	1
Trfr RP-M2	132kV Buszone Panel	MV Buszone	BVX7DCV	1
Trfr RP-M2	DC Board	DC Supply	BVX2ECV	1
Trfr RP-M2	AC Board	230VAC EL	BVX2ECV	1

400kV Transfer Busbar

BB2A VTJB	CVT - R	BB2A VT Red	BVX7ECV	1
BB2A VTJB	CVT- W	BB2A VT White	BVX7ECV	1
BB2A VTJB	CVT - B	BB2A VT Blue	BVX7ECV	1

400kV BUS SECTION 1 BREAKER JB COMMON

JB-COM	CB 1-R	Heater Supply	BVX2ECV	1
JB-COM	CB 1-W	Heater Supply	BVX2ECV	1
JB-COM	CB 1-B	Heater Supply	BVX2ECV	1
JB-COM	CB 1-R	Spring Rwd,Control & Mo	BVX19DCV	1
JB-COM	CB 1-W	Spring Rwd,Control & Mo	BVX19DCV	1
JB-COM	CB 1-B	Spring Rwd,Control & Mo	BVX19DCV	1
JB-COM	Iso 1	Heater Supply	BVX2ECV	1
JB-COM	Iso 1	Control & Motor	BVX12DCV	1
JB-COM	Iso 2	Heater Supply	BVX2ECV	1
JB-COM	Iso 2	Control & Motor	BVX12DCV	1
JB-COM	Iso BB2A	Heater Supply	BVX2ECV	1
JB-COM	Iso BB2B	Heater Supply	BVX2ECV	1
JB-COM	ESCB2A	Interlock & Status	BVX12DCV	1
JB-COM	ESCB2B	Interlock & Status	BVX12DCV	1
JB-COM	Plug Box	AC Heater & Lamp Supply	BVX2ECV	1
JB-COM	DC Board	DC Motor & SR Supply	BVX4HCV	1

400kV BUS SECTION 1 PROTECTION MAIN 1

Bus Coupler -M1	BB1 VT JB	BB1 VT	BVX4ECV	1
Bus Coupler M1	BB2 VT JB	BB2 VT	BVX4ECV	1
Bus Coupler -M1	Breaker CT	Breaker JB M1	BVX4ECV	1
Bus Coupler -M1	Buszone	Buszone	BVX7DCV	1
Bus Coupler -M1	DC Supply	DC Board	BVX2ECV	1
Bus Coupler -M1	230VAC EL	AC Board	BVX2ECV	1

Bus Coupler -M1	230VAC	AC Board	BVX2ECV	1
Bus Coupler 6BC7100-M1	Tranfer Bus Wiring	Tranfer Bus Wiring	BVX19DCV	1
Bus Coupler 6BC7100-M1	Tranfer Bus Wiring	Tranfer Bus Wiring	BVX19DCV	1
Bus Coupler 6BC7100-M1	Tranfer Bus Wiring	Tranfer Bus Wiring	BVX19DCV	1
Bus Coupler 6BC7100-M1	FSP 1	FO	12MM HDD	1
Bus Coupler 6BC7100-M1	IDF	Alarm	TPH10AX	1

400kV BUS SECTION 1 PROTECTION MAIN 2

Bus Coupler 6BC7100-M2	BB1 VT JB	BB1 VT	BVX4ECV	1
Bus Coupler 6BC7100-M2	BB2 VT JB	BB2 VT	BVX4ECV	1
Bus Coupler 6BC7100-M2	Breaker CT	Breaker JB M1	BVX4ECV	1
Bus Coupler 6BC7100-M2	Buszone	Buszone	BVX7DCV	1
Bus Coupler 6BC7100-M2	DC Supply	DC Board	BVX2ECV	1
Bus Coupler 6BC7100-M2	230VAC EL	AC Board	BVX2ECV	1
Bus Coupler 6BC7100-M2	230VAC	AC Board	BVX2ECV	1
Bus Coupler 6BC7100-M2	Tranfer Bus Wiring	Tranfer Bus Wiring	BVX19DCV	1
Bus Coupler 6BC7100-M2	Tranfer Bus Wiring	Tranfer Bus Wiring	BVX19DCV	1
Bus Coupler 6BC7100-M2	Tranfer Bus Wiring	Tranfer Bus Wiring	BVX19DCV	1
Bus Coupler 6BC7100-M2	FSP 2	FO	12MM HDD	1
Bus Coupler 6BC7100-M2	IDF	Alarm	TPH10AX	1

400kV BUS COUPLER BREAKER JB MAIN 2

JB-M2	CB - R	Status	BVX12DCV	1
JB-M2	CB - W	Status	BVX12DCV	1
JB-M2	CB - B	Status	BVX12DCV	1
JB-M2	Iso BB1	Status	BVX7DCV	1
JB-M2	Iso BB2	Status	BVX7DCV	1
JB-M2	ESCB1	Status	BVX7DCV	1
JB-M2	ESCB2	Status	BVX7DCV	1
JB-M2	ESBB1	Status	BVX7DCV	1
JB-M2	ESBB2	Status	BVX7DCV	1
JB-M2	CT1-R	CT Cores	BVX7DCV	1
JB-M2	CT1-W	CT Cores	BVX7DCV	1
JB-M2	CT1-B	CT Cores	BVX7DCV	1
JB-M2	MV BB1 VT 2	DC,MCB,Trip	BVX2ECV	1
JB-M2	MV BB2 VT 2	DC,MCB,Trip	BVX2ECV	1
JB-M2	BC RP-M2	DC Supply,EM Trip	BVX12ECV	1
JB-M2	BC RP-M2	FO	12MM HDD	1

400kV BUS COUPLER BREAKER JB COMMON

JB-COM	CB - W	Heater Supply	BVX2ECV	1
JB-COM	CB - W	Spring Rwd,Control & Motor	BVX19DCV	1
JB-COM	Iso 1	Heater Supply	BVX2ECV	1
JB-COM	Iso 1	Control & Motor	BVX12DCV	1
JB-COM	Iso 2	Heater Supply	BVX2ECV	1
JB-COM	Iso 2	Control & Motor	BVX12DCV	1

JB-COM	ESCB1	Heater Supply	BVX2ECV	1
JB-COM	ESCB2	Heater Supply	BVX2ECV	1
JB-COM	Plug Box	AC Heater & Lamp Supply	BVX2ECV	1
JB-COM	DC Board	DC Motor & SR Supply	BVX4HCV	1

400kV BUS COUPLER PROTECTION MAIN 1

BC RP-M1	BB1 VT JB	BB1 VT	BVX4ECV	1
BC RP-M1	BB2 VT JB	BB2 VT	BVX4ECV	1
BC RP-M1	Breaker JB -M1	Breaker CT	BVX4ECV	1
BC RP-M1	Buszone	Buszone	BVX7DCV	1
BC RP-M1	DC Board	DC Supply	BVX2ECV	1
BC RP-M1	AC Board	230VAC EL	BVX2ECV	1
BC RP-M1	AC Board	230VAC	BVX2ECV	1
BC RP-M1	FSP 1	FO	12MM HDD	1
BC RP-M1	IDF	Alarm	TPH10AX	1

400kV BUS COUPLER PROTECTION MAIN 2

BC RP-M2	BB1 VT JB	BB1 VT	BVX4ECV	1
BC RP-M2	BB2 VT JB	BB2 VT	BVX4ECV	1
BC RP-M2	Breaker JB - M2	Breaker CT	BVX4ECV	1
BC RP-M2	Buszone	Buszone	BVX7DCV	1
BC RP-M2	DC Board	DC Supply	BVX2ECV	1
BC RP-M2	AC Board	230VAC EL	BVX2ECV	1
BC RP-M2	AC Board	230VAC	BVX2ECV	1
BC RP-M2	FSP 2	FO	12MM HDD	1
BC RP-M2	IDF	Alarm	TPH10AX	1

132kV CABLE REQUIREMENTS

TRANSFORMER 14 BREAKER JB MAIN 1

JB-M1	CB	Status	BVX12DCV	1
JB-M1	Iso BB1	Status	BVX7DCV	1
JB-M1	Iso BB2	Status	BVX7DCV	1
JB-M1	ESBB	Status	BVX7DCV	1
JB-M1	ESB2	Status	BVX7DCV	1
JB-M1	EST	Status	BVX7DCV	1
JB-M1	CT1-R	CT Cores	BVX7DCV	1
JB-M1	CT1-W	CT Cores	BVX7DCV	1
JB-M1	CT1-B	CT Cores	BVX7DCV	1
JB-M1	MV BB1VT 1	DC, MCB, Trip	BVX2ECV	1
JB-M1	MV BB2VT 1	DC, MCB, Trip	BVX2ECV	1
JB-M1	TRFR 1 RP M1	DC Supply, EM Trip	BVX12ECV	1
JB-M1	TRFR 1 RP M1	FO	12MM HDD	1

TRANSFORMER 14 BREAKER JB MAIN 2

JB-M2	CB	Status	BVX12DCV	1
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JB-M2	Iso BB1	Status	BVX7DCV	1
JB-M2	Iso BB2	Status	BVX7DCV	1
JB-M2	ESBB	Status	BVX7DCV	1
JB-M2	ESB2	Status	BVX7DCV	1
JB-M2	EST	Status	BVX7DCV	1
JB-M2	CT1-R	CT Cores	BVX7DCV	1
JB-M2	CT1-W	CT Cores	BVX7DCV	1
JB-M2	CT1-B	CT Cores	BVX7DCV	1
JB-M2	MV BB1VT 2	DC,MCB,Trip	BVX2ECV	1
JB-M2	MV BB2VT 2	DC,MCB,Trip	BVX2ECV	1
JB-M2	TRFR 1 RP M2	DC Supply,EM Trip	BVX12ECV	1
JB-M2	TRFR 1 RP M2	FO	12MM HDD	1
JB-M2	TC PANEL	FO	12MM HDD	1

TRANSFORMER 14 BREAKER JB COMMON

JB-COM	CB	Heater Supply R	BVX2ECV	1
JB-COM	CB	Spring Rwd,Control & Motor	BVX19DCV	1
JB-COM	Iso 1	Heater Supply	BVX2ECV	1
JB-COM	Iso 1	Control & Motor	BVX12DCV	1
JB-COM	Iso 2	Heater Supply	BVX2ECV	1
JB-COM	Iso 2	Control & Motor	BVX12DCV	1
JB-COM	ESBB	Heater Supply	BVX2ECV	1
JB-COM	ESCB2	Heater Supply	BVX2ECV	1
JB-COM	EST	Heater Supply	BVX2ECV	1
JB-COM	Plug Box	AC Heater & Lamp Supply	BVX2ECV	1
JB-COM	DC Board	DC Motor & SR Supply	BVX4HCV	1

BUS COUPLER BREAKER JB Backup

JB-Backup	CB	Status	BVX12DCV	1
JB-Backup	Iso BB1	Status	BVX7DCV	1
JB-Backup	Iso BB2	Status	BVX7DCV	1
JB-Backup	ESCB1	Status	BVX7DCV	1
JB-Backup	ESCB2	Status	BVX7DCV	1
JB-Backup	ESBB1	Status	BVX7DCV	1
JB-Backup	ESBB2	Status	BVX7DCV	1
JB-Backup	CT1-R	CT Cores	BVX7DCV	1
JB-Backup	CT1-W	CT Cores	BVX7DCV	1
JB-Backup	CT1-B	CT Cores	BVX7DCV	1
JB-Backup	MV BB1 VT 2	DC,MCB,Trip	BVX2ECV	1
JB-Backup	MV BB2 VT 2	DC,MCB,Trip	BVX2ECV	1
JB-Backup	BC RP-M2	DC Supply,EM Trip	BVX12ECV	1
JB-Backup	BC RP-M2	FO	12MM HDD	1

BUS COUPLER BREAKER JB COMMON

JB-COM	CB - W	Heater Supply	BVX2ECV	1
JB-COM	CB - W	Spring Rwd,Control & Motor	BVX19DCV	1
JB-COM	Iso 1	Heater Supply	BVX2ECV	1
JB-COM	Iso 1	Control & Motor	BVX12DCV	1
JB-COM	Iso 2	Heater Supply	BVX2ECV	1
JB-COM	Iso 2	Control & Motor	BVX12DCV	1
JB-COM	ESCB1	Heater Supply	BVX2ECV	1
JB-COM	ESCB2	Heater Supply	BVX2ECV	1
JB-COM	Plug Box	AC Heater & Lamp Supply	BVX2ECV	1
JB-COM	DC Board	DC Motor & SR Supply	BVX4HCV	1

BUS COUPLER PROTECTION MAIN 1

BC RP-M1	BB1 VT JB	BB1 VT	BVX4ECV	1
BC RP-M1	BB2 VT JB	BB2 VT	BVX4ECV	1
BC RP-M1	Breaker JB -M1	Breaker CT	BVX4ECV	1
BC RP-M1	Buszone	Buszone	BVX7DCV	1
BC RP-M1	DC Board	DC Supply	BVX2ECV	1
BC RP-M1	AC Board	230VAC EL	BVX2ECV	1
BC RP-M1	AC Board	230VAC	BVX2ECV	1
BC RP-M1	FSP 1	FO	12MM HDD	1
BC RP-M1	IDF	Alarm	TPH10AX	1

BUS COUPLER PROTECTION BACKUP

BC-Backup	BB1 VT JB	BB1 VT	BVX4ECV	1
BC-Backup	BB2 VT JB	BB2 VT	BVX4ECV	1
BC-Backup	Breaker JB - M2	Breaker CT	BVX4ECV	1
BC-Backup	Buszone	Buszone	BVX7DCV	1
BC-Backup	DC Board	DC Supply	BVX2ECV	1
BC-Backup	AC Board	230VAC EL	BVX2ECV	1
BC-Backup	AC Board	230VAC	BVX2ECV	1
BC-Backup	FSP 2	FO	12MM HDD	1
BC-Backup	IDF	Alarm	TPH10AX	1

BUS SECTION BREAKER JB Backup

JB-Backup	CB	Status	BVX12DCV	1
JB-Backup	Iso BB1	Status	BVX7DCV	1
JB-Backup	Iso BB2	Status	BVX7DCV	1
JB-Backup	ESCB1	Status	BVX7DCV	1
JJB-Backup	ESCB2	Status	BVX7DCV	1
JB-Backup	ESBB1	Status	BVX7DCV	1
JB-Backup	ESBB2	Status	BVX7DCV	1
JB-Backup	CT1-R	CT Cores	BVX7DCV	1
JB-Backup	CT1-W	CT Cores	BVX7DCV	1
JB-Backup	CT1-B	CT Cores	BVX7DCV	1

JB-Backup	MV BB1 VT 2	DC,MCB,Trip	BVX2ECV	1
JB-Backup	MV BB2 VT 2	DC,MCB,Trip	BVX2ECV	1
JB-Backup	BC RP-M2	DC Supply,EM Trip	BVX12ECV	1
JB-Backup	BC RP-M2	FO	12MM HDD	1

BUS SECTION BREAKER JB COMMON

JB-COM	CB - W	Heater Supply	BVX2ECV	1
JB-COM	CB - W	Spring Rwd,Control & Motor	BVX19DCV	1
JB-COM	Iso 1	Heater Supply	BVX2ECV	1
JB-COM	Iso 1	Control & Motor	BVX12DCV	1
JB-COM	Iso 2	Heater Supply	BVX2ECV	1
JB-COM	Iso 2	Control & Motor	BVX12DCV	1
JB-COM	ESCB1	Heater Supply	BVX2ECV	1
JB-COM	ESCB2	Heater Supply	BVX2ECV	1
JB-COM	Plug Box	AC Heater & Lamp Supply	BVX2ECV	1
JB-COM	DC Board	DC Motor & SR Supply	BVX4HCV	1

BUS SECTION PROTECTION MAIN 1

BC RP-M1	BB1 VT JB	BB1 VT	BVX4ECV	1
BC RP-M1	BB2 VT JB	BB2 VT	BVX4ECV	1
BC RP-M1	Breaker JB -M1	Breaker CT	BVX4ECV	1
BC RP-M1	Buszone	Buszone	BVX7DCV	1
BC RP-M1	DC Board	DC Supply	BVX2ECV	1
BC RP-M1	AC Board	230VAC EL	BVX2ECV	1
BC RP-M1	AC Board	230VAC	BVX2ECV	1
BC RP-M1	FSP 1	FO	12MM HDD	1
BC RP-M1	IDF	Alarm	TPH10AX	1

BUS SECTION PROTECTION BACKUP

BC-Backup	BB1 VT JB	BB1 VT	BVX4ECV	1
BC-Backup	BB2 VT JB	BB2 VT	BVX4ECV	1
BC-Backup	Breaker JB - M2	Breaker CT	BVX4ECV	1
BC-Backup	Buszone	Buszone	BVX7DCV	1
BC-Backup	DC Board	DC Supply	BVX2ECV	1
BC-Backup	AC Board	230VAC EL	BVX2ECV	1
BC-Backup	AC Board	230VAC	BVX2ECV	1
BC-Backup	FSP 2	FO	12MM HDD	1
BC-Backup	IDF	Alarm	TPH10AX	1

COMMON EQUIPMENT CABLING REQUIREMENTS

400kV BUSZONE

Buszone	Transformer 14 Breaker JB M2	Trfr 14 CT	BVX4ECV	1
Buszone	Trans Bus/C Breaker JB M2	B/C T CT	BVX4ECV	1

Buszone	Bus Coupler A Breaker JB M2	B/C A CT	BVX4ECV	
Buszone	Bus Section 2 Breaker JB M2	B/S2 CT	BVX4ECV	1
Buszone	Transformer 14 Breaker JB Com	Trfr 14 Isolator Status	BVX4ECV	1
Buszone	Bus Coupler T Breaker JB Com	B/C T Trfr 2 Isolator Status	BVX4ECV	
Buszone	Bus Section 2 Breaker JB Com	B/S 2 Isolator Status	BVX4ECV	1
Buszone	Bus Coupler A Breaker JB Com	B/C A Trfr 2 Isolator Status	BVX4ECV	1
400kV Buszone	Common Equipment Panel	FO	12MM HDD	1

132kV BUSZONE

Buszone	BS breaker JB	BS 2 CT	BVX4ECV	1
Buszone	BC A Breaker JB	BC A CT	BVX4ECV	1
Buszone	Trfr 14 MV Breaker JB M2	Trfr 1 MV CT	BVX4ECV	1
Buszone	Feeder 1 Breaker JB Com	Feeder Isolator Status	BVX7DCV	1
Buszone	Feeder 2 Breaker JB Com	Feeder Isolator Status	BVX7DCV	1
Buszone	Feeder 6 Breaker JB Com	Feeder Isolator Status	BVX7DCV	1
Buszone	BS 2 Breaker JB Com	BS 2 Isolator/ Breaker Status	BVX12DCV	1
Buszone	BC A Breaker JB Com	BC A Isolator/ Breaker Status	BVX12DCV	1
Buszone	Trfr 14 MV Breaker JB Com	Status	BVX7DCV	1
132kV Buszone	Common Equipment Panel	FO	12MM HDD	1

INTERNAL TARIFF METERING PANEL

ITM Panel	DC Board	DC Supply		1
ITM Panel	DC Board	DC Supply		1
ITM Panel	Trfr 1 MV Breaker JB M2	Trfr 1 MV CT	BVX4ECV	1
ITM Panel	Trfr 2 MV Breaker JB M2	Trfr 2 MV CT	BVX4ECV	
ITM Panel	Trfr 1 MV VT JB	Trfr 1 MV VT	BVX4ECV	
ITM Panel	Trfr 2 MV VT JB	Trfr 2 MV VT	BVX4ECV	
ITM Panel	Common Equipment Panel	FO	12MM HDD	1
ITM Panel	IDF	Alarm	TPH10AX	1

TAP CHANGE PANEL

			BVX2ECV	1
TCP	DC Board M1	DC Supply	BVX2ECV	1
TCP	DC Board M2	DC Supply	BVX2ECV	1
TCP	132kV MEAS PANEL	VT INPUT	BVX4ECV	1
TCP	132kV MEAS PANEL	CT INPUT	BVX4ECV	1
TCP	Common Equipment Panel	FO	12MM HDD	
TCP	IDF	Alarm	TPH10AX	

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