

Transmission Line Circuits

Transmission Circuit	Transmission Circuit Section	Voltage	Location	Summer Limit		Winter Limit	
				Limit (A)	Limiting Equipment	Limit (A)	Limiting Equipment
AV-SM 110 kV Transmission Circuit	AV-SM 110 kV Transmission Circuit	110	North				
BU-EB 110 kV Transmission Circuit	BU-EB 110 kV Transmission Circuit	110	NW				
BU-HM 110 kV Transmission Circuit	BU-HM 110 kV Transmission Circuit	110	NW				
BU-PL 110 kV Transmission Circuit	BU-PL 110 kV Transmission Circuit	110	FNW				
BU-ST 110 kV Transmission Circuit	BU-ST 110 kV Transmission Circuit	110	FNW				
BW-LF 110 kV Transmission Circuit	BW-LF 110 kV Transmission Circuit	110	South				
CR-NH 1 110 kV Transmission Circuit	CR-NH 1 110 kV Transmission Circuit	110	South				
CR-NH 2 110 kV Transmission Circuit	CR-NH 2 110 kV Transmission Circuit	110	South				
CS-CR 1 110 kV Transmission Circuit	CS-CR 1 110 kV Transmission Circuit	110	South				
CS-CR 2 110 kV Transmission Circuit	CS-CR 2 110 kV Transmission Circuit	110	South				
CS-CR-RI 110 kV Transmission Circuit	CR-CR Tee 110 kV Transmission Circuit Section	110	South				
	CS-CR Tee 110 kV Transmission Circuit Section	110	South				
	RI-CR Tee 110 kV Transmission Circuit Section	110	South				
CS-KI-EL 110 kV Transmission Circuit	CS-KI Tee 2 110 kV Transmission Circuit Section	110	South				
	EL-KI Tee 2 110 kV Transmission Circuit Section	110	South				
	KI-KI Tee 2 110 kV Transmission Circuit Section	110	South				
CS-KI-KR 110 kV Transmission Circuit	CS-KI Tee 1 110 kV Transmission Circuit Section	110	South				
	KI-KI Tee 1 110 kV Transmission Circuit Section	110	South				
	KR-KI Tee 110 kV Transmission Circuit Section	110	South				
CS-RI 110 kV Transmission Circuit	CS-RI 110 kV Transmission Circuit	110	South				
DP-WV 110 kV Transmission Circuit	DP-WV 110 kV Transmission Circuit	110	NW				
FA-JB 220 kV Transmission Circuit	FA-JB 220 kV Transmission Circuit	220	West				
FA-MA 110 kV Transmission Circuit	FA-MA 110 kV Transmission Circuit	110	West				
FA-QU-SR-HM 110 kV Transmission Circuit	FA-QU Tee 110 kV Transmission Circuit Section	110	West				
	HM-WT Tee 110 kV Transmission Circuit Section	110	NW				
	QU Tee-WT Tee 110 kV Transmission Circuit Section	110	West				
	QU-QU Tee 110 kV Transmission Circuit Section	110	West				
	SR-WT Tee 110 kV Transmission Circuit Section	110	West				
FA-RB 110 kV Transmission Circuit	FA-RB 110 kV Transmission Circuit	110	West				
FA-RB-QT 110 kV Transmission Circuit	FA-RB Tee 110 kV Transmission Circuit Section	110	West				
	QT-RB Tee 110 kV Transmission Circuit Section	110	West				
	RB-RB Tee 110 kV Transmission Circuit Section	110	West				
FA-RC 1 220 kV Transmission Circuit	FA-RC 1 220 kV Transmission Circuit	220	West				
FA-RC 2 220 kV Transmission Circuit	FA-RC 2 220 kV Transmission Circuit	220	West				
FA-TI 220 kV Transmission Circuit	FA-TI 220 kV Transmission Circuit	220	West				

Transmission Line Circuits

Transmission Circuit	Transmission Circuit Section	Voltage	Location	Summer Limit		Winter Limit	
				Limit (A)	Limiting Equipment	Limit (A)	Limiting Equipment
GO-CS 1 220 kV Transmission Circuit	GO-CS 1 220 kV Transmission Circuit	220	South				
GO-CS 2 220 kV Transmission Circuit	GO-CS 2 220 kV Transmission Circuit	220	South				
GT-CO 4 220 kV Transmission Circuit	GT-CO 4 220 kV Transmission Circuit	220	North				
GT-CO 5 220 kV Transmission Circuit	GT-CO 5 220 kV Transmission Circuit	220	North				
GT-SW 110 kV Transmission Circuit	GT-SW 110 kV Transmission Circuit	110	North				
GT-TE 1 110 kV Transmission Circuit	GT-TE 1 110 kV Transmission Circuit	110	North				
GT-TE 2 110 kV Transmission Circuit	GT-TE 2 110 kV Transmission Circuit	110	North				
GT-TV 1 110 kV Transmission Circuit	GT-TV 1 110 kV Transmission Circuit	110	North				
GT-TV 2 110 kV Transmission Circuit	GT-TV 2 110 kV Transmission Circuit	110	North				
GT-TV 3 220 kV Transmission Circuit	GT-TV 3 220 kV Transmission Circuit	220	North				
HA-GT 1 220 kV Transmission Circuit	HA-GT 1 220 kV Transmission Circuit	220	North				
HA-GT 2 220 kV Transmission Circuit	HA-GT 2 220 kV Transmission Circuit	220	North				
HA-NW 1 110 kV Transmission Circuit	HA-NW 1 110 kV Transmission Circuit	110	North				
HA-NW 2 110 kV Transmission Circuit	HA-NW 2 110 kV Transmission Circuit	110	North				
HA-TR 1 110 kV Transmission Circuit	HA-TR 1 110 kV Transmission Circuit	110	North				
HA-TR 2 110 kV Transmission Circuit	HA-TR 2 110 kV Transmission Circuit	110	North				
KR-EL 110 kV Transmission Circuit	KR-EL 110 kV Transmission Circuit	110	South				
KR-HR-KE 110 kV Transmission Circuit	HR-CF Tee 110 kV Transmission Circuit Section	110	South				
	KE-CF Tee 110 kV Transmission Circuit Section	110	South				
	KR-CF Tee 110 kV Transmission Circuit Section	110	South				
LF-MT-RK 1 110 kV Transmission Circuit	LF-MT Tee 1 110 kV Transmission Circuit Section	110	South				
	MT-MT Tee 1 110 kV transmission Circuit Section	110	South				
	RK-MT Tee 1 110 kV Transmission Circuit Section	110	South				
LF-MT-RK 2 110 kV Transmission Circuit	LF-MT Tee 2 110 kV Transmission Circuit Section	110	South				
	MT-MT Tee 2 110 kV Transmission Circuit Section	110	South				
	RK-MT Tee 2 110 kV Transmission Circuit Section	110	South				
LF-RI 1 110 kV Transmission Circuit	LF-RI 1 110 kV Transmission Circuit	110	South				
LF-RI 2 110 kV Transmission Circuit	LF-RI 2 110 kV Transmission Circuit	110	South				
LF-SO 110 kV Transmission Circuit	LF-SO 110 kV Transmission Circuit	110	South				
LF-SO-TB 110 kV Transmission Circuit	LF-SO Tee 110 kV Transmission Circuit Section	110	South				
	SO-SO Tee 110 kV Transmission Circuit Section	110	South				
	TB-SO Tee 110 kV Transmission Circuit Section	110	South				
LI-CL-RE-CS 1 220 kV Transmission Circuit	CL Tee -RE Tee 220 kV Transmission Circuit Section	220	South				
	CL-CL Tee 220 kV Transmission Circuit Section	220	South				
	CS-RE Tee 220 kV Transmission Circuit Section	220	South				
	LI-RE Tee 220 kV Transmission Circuit Section	220	South				
	RE-CL Tee 220 kV Transmission Circuit Section	220	South				
LI-CS 2 220 kV Transmission Circuit	LI-CS 2 220 kV Transmission Circuit	220	South				
LI-WA-PM 1 220 kV Transmission Circuit	LI-WA 1 220 kV Transmission Circuit section	220	North				
PM-WA 1 220 kV Transmission Circuit Section	PM-WA 1 220 kV Transmission Circuit Section	220	North				
LI-WA-PM 2 220 kV Transmission Circuit	LI-WA 2 220 kV Transmission Circuit Section	220	North				

Transmission Line Circuits

Transmission Circuit	Transmission Circuit Section	Voltage	Location	Summer Limit		Winter Limit	
				Limit (A)	Limiting Equipment	Limit (A)	Limiting Equipment
	PM-WA 2 220 kV Transmission Circuit Section	220	North				
LI-WY 220 kV Transmission Circuit	LI-WY 220 kV Transmission Circuit	220	South				
MB-NN 110 kV Transmission Circuit	MB-NN 110 kV Transmission Circuit	110	South				
NN-BY 1 110 kV Transmission Circuit	NN-BY 1 110 kV Transmission Circuit	110	South				
NN-BY 2 110 kV Transmission Circuit	NN-BY 2 110 kV Transmission Circuit	110	South				
NN-CR 110 kV Transmission Circuit	NN-CR 110 kV Transmission Circuit	110	South				
NN-CS 110 kV Transmission Circuit	NN-CS 110 kV Transmission Circuit	110	South				
NW-SD 110 kV Transmission Circuit	NW-SD 110 kV Transmission Circuit	110	North				
NW-SD-DE 110 kV Transmission Circuit	DE-SD Tee 110 kV Transmission Circuit Section	110	North				
	NW-SD Tee 110 kV Transmission Circuit Section	110	North				
	SD-SD Tee 110 kV Transmission Circuit Section	110	North				
NW-SL 110 kV Transmission Circuit	NW-SL 110 kV Transmission Circuit	110	North				
PA-UL 110 kV Transmission Circuit	PA-UL 110 kV Transmission Circuit	110	NW				
PL-ST 110 kV Transmission Circuit	PL-ST 110 kV Transmission Circuit	110	FNW				
PM-AL 110 kV Transmission Circuit	PM-AL 110 kV Transmission Circuit	110	North				
PM-AV 110 kV Transmission Circuit	PM-AV 110 kV Transmission Circuit	110	North				
PM-HA 1 220 kV Transmission Circuit	PM-HA 1 220 kV Transmission Circuit	220	North				
PM-HA 2 220 kV Transmission Circuit	PM-HA 2 220 kV Transmission Circuit	220	North				
PM-HA 3 110 kV Transmission Circuit	PM-HA 3 110 kV Transmission Circuit	110	North				
PM-HA 4 110 kV Transmission Circuit	PM-HA 4 110 kV Transmission Circuit	110	North				
PM-SH 220 kV Transmission Circuit	PM-SH 220 kV Transmission Circuit	220	North				
PO-PM 1 110 kV Transmission Circuit	PO-PM 1 110 kV Transmission Circuit	110	North				
PO-PM 2 110 kV Transmission Circuit	PO-PM 2 110 kV Transmission Circuit	110	North				
PO-PM 3 220 kV Transmission Circuit	PO-PM 3 220 kV Transmission Circuit	220	North				
PO-PM 4 220 kV Transmission Circuit	PO-PM 4 220 kV Transmission Circuit	220	North				
PO-PM 5 220 kV Transmission Circuit	PO-PM 5 220 kV Transmission Circuit	220	North				
PO-PM 6 220 kV Transmission Circuit	PO-PM 6 220 kV Transmission Circuit	220	North				
QT-NT 110 kV Transmission Circuit	QT-NT 110 kV Transmission Circuit	110	West				
SH-BU 1 220 kV Transmission Circuit	SH-BU 1 220 kV Transmission Circuit	220	NW				
SH-BU 2 110 kV Transmission Circuit	SH-BU 2 110 kV Transmission Circuit	110	NW				
SH-CE 220 kV Transmission Circuit	SH-CE 220 kV Transmission Circuit	220	NW				
SH-DG 110 kV Transmission Circuit	SH-DG 110 kV Transmission Circuit	110	NW				
SH-DP 110 kV Transmission Circuit	SH-DP 110 kV Transmission Circuit	110	NW				
SH-FA 1 220 kV Transmission Circuit	SH-FA 1 220 kV Transmission Circuit	220	West				
SH-FA 2 220 kV Transmission Circuit	SH-FA 2 220 kV Transmission Circuit	220	West				
SH-FI 220 kV Transmission Circuit	SH-FI 220 kV Transmission Circuit	220	NW				
SH-GT 1 220 kV Transmission Circuit	SH-GT 1 220 kV Transmission Circuit	220	North				
SH-GT 2 220 kV Transmission Circuit	SH-GT 2 220 kV Transmission Circuit	220	North				
SH-LM 220 kV Transmission Circuit	SH-LM 220 kV Transmission Circuit	220	NW				

Transmission Line Circuits

Transmission Circuit	Transmission Circuit Section	Voltage	Location	Summer Limit		Winter Limit	
				Limit (A)	Limiting Equipment	Limit (A)	Limiting Equipment
SH-PA 110 kV Transmission Circuit	SH-PA 110 kV Transmission Circuit	110	NW	█	█	█	█
SH-PA-UL 110 kV Transmission Circuit	SH-PA-UL 110 kV Transmission Circuit	110	NW	█	█	█	█
SH-RA 1 110 kV Transmission Circuit	SH-RA 1 110 kV Transmission Circuit	110	NW	█	█	█	█
SH-RA 2 110 kV Transmission Circuit	SH-RA 2 110 kV Transmission Circuit	110	NW	█	█	█	█
SH-WI 220 kV Transmission Circuit	SH-WI 220 kV Transmission Circuit	220	NW	█	█	█	█
SH-WV 110 kV Transmission Circuit	SH-WV 110 kV Transmission Circuit	110	NW	█	█	█	█
SL-MY 110 kV Transmission Circuit	SL-MY 110 kV Transmission Circuit	110	North	█	█	█	█
TA-MB 110 kV Transmission Circuit	TA-MB 110 kV Transmission Circuit	110	South	█	█	█	█
TA-NN 1 110 kV Transmission Circuit	TA-NN 1 110 kV Transmission Circuit	110	South	█	█	█	█
TA-NN 2 110 kV Transmission Circuit	TA-NN 2 110 kV Transmission Circuit	110	South	█	█	█	█
TA-TU 1 110 kV Transmission Circuit	TA-TU 1 110 kV Transmission Circuit	110	Central	█	█	█	█
TA-TU 2 110 kV Transmission Circuit	TA-TU 2 110 kV Transmission Circuit	110	Central	█	█	█	█
TR-MY 110 kV Transmission Circuit	TR-MY 110 kV Transmission Circuit	110	North	█	█	█	█
TU-BG-DB 110 kV Transmission Circuit	BG-BG Tee 110 kV Transmission Circuit Section	110	Central	█	█	█	█
	DB-BG Tee 110 kV Transmission Circuit Section	110	Central	█	█	█	█
	TU-BG Tee 110 kV Transmission Circuit Section	110	Central	█	█	█	█
TU-LE-WA 1 110 kV Transmission Circuit	LE-LE Tee 1 110 kV Transmission Circuit Section	110	Central	█	█	█	█
	TU-LE Tee 1 110 kV Transmission Circuit Section	110	Central	█	█	█	█
	WA-LE Tee 1 110 kV Transmission Circuit Section	110	Central	█	█	█	█
TU-WA 2 110 kV Transmission Circuit	TU-WA 2 110 kV Transmission Circuit	110	Central	█	█	█	█
UL-EB 110 kV Transmission Circuit	UL-EB 110 kV Transmission Circuit	110	NW	█	█	█	█
WA-BW 110 kV Transmission Circuit	WA-BW 110 kV Transmission Circuit	110	South	█	█	█	█
WA-LF 1 220 kV Transmission Circuit	WA-LF 1 220 kV Transmission Circuit	220	South	█	█	█	█
WA-LF 2 220 kV Transmission Circuit	WA-LF 2 220 kV Transmission Circuit	220	South	█	█	█	█
WA-PM 2 110 kV Transmission Circuit	WA-PM 2 110 kV Transmission Circuit	110	North	█	█	█	█
WY-CA 220 kV Transmission Circuit	WY-CA 220 kV Transmission Circuit	220	South	█	█	█	█

Transformer Circuits

Transformer Circuit	EHV			HV	
	Limit (A)	Limiting Equipment	Limit (A)	Limiting Equipment	
AL 110/6.6 kV T1 Transformer Circuit					
AV 110/22 kV T1 Transformer Circuit					
BY 110/6.6 kV T1 Transformer Circuit					
BY 110/6.6 kV T13 Transformer Circuit					
BY 110/6.6 kV T13 Transformer Circuit					
BY 110/6.6 kV T14 Transformer Circuit					
BY 110/6.6 kV T14 Transformer Circuit					
BY 110/6.6 kV T2 Transformer Circuit					
BY 22/6.6 kV T7 Transformer Circuit					
BW 110/11 kV T1 Transformer Circuit					
BW 110/11 kV T2 Transformer Circuit					
BU 110/22 kV T6 Transformer Circuit					
BU 110/22 kV T7 Transformer Circuit					
BU 220/110 kV T2 Transformer Circuit					
CS 110/11 kV T5 Transformer Circuit					
CS 110/11 kV T5 Transformer Circuit					
CS 110/11 kV T6 Transformer Circuit					
CS 110/11 kV T6 Transformer Circuit					
CS 220/110 kV T1 Transformer Circuit					
CS 220/110 kV T2 Transformer Circuit					
CS 220/110 kV T3 Transformer Circuit					
CS 220/110 kV T4 Transformer Circuit					
CR 110/33 kV T2 Transformer Circuit					
CR 110/33 kV T3 Transformer Circuit					
CR 110/33 kV T4 Transformer Circuit					
DE 110/22 kV T1A Transformer Circuit					
DB 110/22 kV T1 Transformer Circuit					
DP 110/22 kV T1 Transformer Circuit					
DP 110/22 kV T2 Transformer Circuit					
DP 110/22 kV T3 Transformer Circuit					
EL 110/11 kV T1 Transformer Circuit					
EL 110/11 kV T2 Transformer Circuit					
EB 110/11 kV T2 Transformer Circuit					
EB 110/11 kV T3 Transformer Circuit					
FA 220/110 kV T1 Transformer Circuit					
FA 220/110 kV T2 Transformer Circuit					
GT 110/22 kV T4 Transformer Circuit					
GT 110/22 kV T5 Transformer Circuit					
GT 220/110 kV T1 Transformer Circuit					
GT 220/110 kV T2 Transformer Circuit					
GT 220/110 kV T3 Transformer Circuit					
GO 220/22 kV T6 Transformer Circuit					
HA 110/22 kV T3 Transformer Circuit					
HA 110/22 kV T4 Transformer Circuit					
HA 220/110 kV T1 Transformer Circuit					
HA 220/110 kV T2 Transformer Circuit					
HR 110/11 kV T1 Transformer Circuit					
KE 110/11 kV T1 Transformer Circuit					
KE 110/11 kV T2 Transformer Circuit					
KI 110/11 kV T1 Transformer Circuit					
KI 110/11 kV T2 Transformer Circuit					
KI 110/33 kV T3 Transformer Circuit					
KI 110/33 kV T4 Transformer Circuit					
KR 110/11 kV T1 Transformer Circuit					
KR 110/11 kV T2 Transformer Circuit					
LF 110/33 kV T2 Transformer Circuit					
LF 110/33 kV T3 Transformer Circuit					
LF 220/110 kV T4 Transformer Circuit					
LF 220/110 kV T5 Transformer Circuit					
MB 110/22 kV T4 Transformer Circuit					
MT 110/33 kV T1 Transformer					
MT 110/33 kV T2 Transformer					
MY 110/22 kV T1 Transformer Circuit					
MY 110/22 kV T2 Transformer Circuit					
NN 110/22 kV T1 Transformer Circuit					
NN 110/22 kV T2 Transformer Circuit					
NT 110/22 kV T1 Transformer Circuit					
NT 110/11 kV T2 Transformer Circuit					
NH 110/11 kV T1 Transformer Circuit					
NH 110/11 kV T1 Transformer Circuit					

Transformer Circuits

Transformer Circuit	EHV		HV	
	Limit (A)	Limiting Equipment	Limit (A)	Limiting Equipment
NH 110/11 kV T2 Transformer Circuit				
NH 110/11 kV T2 Transformer Circuit				
NW 110/22 kV T1 Transformer Circuit				
NW 110/22 kV T2 Transformer Circuit				
PM 110/22 kV T3 Transformer Circuit				
PM 110/22 kV T4 Transformer Circuit				
PM 220/110 kV T1 Transformer Circuit				
PL 110/22 kV T1 Transformer Circuit				
PL 110/22 kV T2 Transformer Circuit				
QU 110/22 kV T1 Transformer Circuit				
QT 110/11 kV T3 Transformer Circuit				
QT 110/11 kV T4 Transformer Circuit				
QT 110/22 kV T1 Transformer Circuit				
QT 110/22 kV T2 Transformer Circuit				
RA 110/22 kV T1 Transformer Circuit				
RA 110/22 kV T2 Transformer Circuit				
RI 110/11 kV T1 Transformer Circuit				
RI 110/11 kV T1 Transformer Circuit				
RI 110/11 kV T2 Transformer Circuit				
RI 110/11 kV T2 Transformer Circuit				
RI 110/11 kV T2 Transformer Circuit				
RI 110/11 kV T2 Transformer Circuit				
RI 110/11 kV T3 Transformer Circuit				
RI 110/11 kV T3 Transformer Circuit				
RI 110/33 kV T4 Transformer Circuit				
RI 110/33 kV T5 Transformer Circuit				
RI 110/33 kV T6 Transformer Circuit				
RK 110/11 kV T1 Transformer Circuit				
RK 110/11 kV T2 Transformer Circuit				
RB 110/44 kV T1 Transformer Circuit				
RB 110/44 kV T2 Transformer Circuit				
RB 44/22 kV T4 Transformer Circuit				
RB 44/22 kV T5 Transformer Circuit				
SR 110/22 kV T2 Transformer Circuit				
SR 110/22 kV T3 Transformer Circuit				
SD 110/22 kV T1 Transformer Circuit				
SD 110/22 kV T2 Transformer Circuit				
SH 220/110 kV T1 Transformer Circuit				
SH 220/110 kV T2 Transformer Circuit				
ST 110/22 kV T1 Transformer Circuit				
ST 110/22 kV T2 Transformer Circuit				
SO 110/22 kV T1 Transformer Circuit				
SO 110/22 kV T2 Transformer Circuit				
SL 110/22 kV T1 Transformer Circuit				
SL 110/22 kV T2 Transformer Circuit				
SM 110/22 kV T1 Transformer Circuit				
SM 110/22 kV T2 Transformer Circuit				
TR 110/22 kV T1 Transformer Circuit				
TR 110/22 kV T2 Transformer Circuit				
TR 110/22 kV T3 Transformer Circuit				
TB 110/22 kV T1 Transformer Circuit				
TB 110/22 kV T2 Transformer Circuit				
TU 110/22 kV T8X Transformer Circuit				
TU 110/22 kV T9X Transformer Circuit				
UL 110/22 kV T1 Transformer Circuit				
UL 110/22 kV T2 Transformer Circuit				
WA 110/22 kV T1 Transformer Circuit				
WV 110/11 kV T3 Transformer Circuit				
WV 110/11 kV T4 Transformer Circuit				

Bus Coupler Circuits

Transformer Circuit	Bay	kV	Limit (A)	Limiting Equipment
BW 110 kV A7 Bus Coupler Circuit	A7	110		
BU 110 kV B7 Bus Coupler Circuit	B7	110		
CS 110 kV B7 Bus Coupler Circuit	B7	110		
CS 220 kV A7 Bus Coupler Circuit	A7	220		
CR 110 kV A7 Bus Coupler Circuit	A7	110		
CR 110 kV C7 Bus Coupler Circuit	C7	110		
CR 110 kV D7 Bus Coupler Circuit	D7	110		
CR 110 kV F7 Bus Coupler Circuit	F7x	110		
CR 110 kV G7 Bus Coupler Circuit	G7x	110		
DP 110 kV B7 Bus Coupler Circuit	B7	110		
EL 110 kV A7 Bus Coupler Circuit	A7	110		
EB 110 kV A7 Bus Coupler Circuit	A7	110		
FA 110 kV B7 Bus Coupler Circuit	B7	110		
FA 220 kV A7B Bus Coupler Circuit	A7	220		
GT 110 kV AB7 Bus Coupler Circuit	AB7	110		
GO 220 kV A7 Bus Coupler Circuit	A7	220		
GO 220 kV C7 Bus Coupler Circuit	C7	220		
HA 110 kV A7 Bus Coupler Circuit	A7	110		
HA 110 kV D7 Bus Coupler Circuit	D7	110		
KI 110 kV A7 Bus Coupler Circuit	A7	110		
KI 110 kV A7 Bus Coupler Circuit	B7	110		
KR 110 kV JD7 Bus Coupler	JD7	110		
LI 220 kV A7 Bus Coupler Circuit	A7	220		
LF 110 kV A7 Bus Coupler Circuit	A7	110		
LF 220 kV D7 Bus Coupler Circuit	D7	220		
LF 220 kV E7 Bus Coupler Circuit	E7	220		
MT 110 kV A7 Bus Coupler	A7	110		
MY 110 kV A7 Bus Coupler	A7	110		
NN 110 kV A7 Bus Coupler Circuit	A7	110		
NW 110 kV A7 Bus Coupler Circuit	A7	110		
PM 110 kV B7 Bus Coupler Circuit	B7	110		
PM 220 kV A7 Bus Coupler Circuit	A7	220		
PM 220 kV E7 Bus Coupler Circuit	E7	220		
PL 110 kV A7 Bus Coupler Circuit	A7	110		
RA 110 kV A7 Bus Coupler Circuit	A7	110		
SD 110 kV A7 Bus Coupler Circuit	A7	110		
SH 110 kV B7 Bus Coupler Circuit	B7	110		
SH 220 kV S Bus	E7	220		
SH 220 kV F7 Bus Coupler Circuit	F7	220		
SH 220 kV G7 Bus Coupler Circuit	G7	220		
ST 110 kV A7 Bus Coupler Circuit	A7	110		
TA 110 kV 7 Bus Coupler Circuit	A7	110		
TR 110 kV B7 Bus Coupler Circuit	B7	110		
TR 110 kV C7 Bus Coupler Circuit	C7	110		
TR 110 kV D7 Bus Coupler Circuit	D7	110		
TU 110 kV B7X Bus Coupler Circuit	B7	110		
TU 110 kV D7X Bus Coupler Circuit	D7	110		
TU 110 kV F7X Bus Coupler Circuit	F7	110		
UL 110 kV A7 Bus Coupler Circuit	A7	110		
WA 110 kV D7 Bus Coupler Circuit	D7	110		
WA 110 kV E7 Bus Coupler Circuit	E7	110		
WA 110 kV F7 Bus Coupler Circuit	F7	110		
WA 110 kV G7 Bus Coupler Circuit	G7	110		
WA 110 kV H7 Bus Coupler Circuit	H7	110		
WV 110 kV A7 Bus Coupler Circuit	A7	110		

Being addressed in 2013 CR Substation Redevelopment

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Being addressed in 2013 CR Substation Redevelopment

Being addressed in 2013 TU Substation Redevelopment

Being addressed in 2013 TU Substation Redevelopment

Being addressed in 2013 TU Substation Redevelopment

Bus Circuits

Transformer Circuit	Bay	kV	Limit (A)	Limiting Equipment
BY 110 kV A Bus	A	110		
BY 110 kV B Bus	B	110		
BW 110 kV A Bus	A7	110		
BW 110 kV B Bus	A7	110		
BU 110 kV A Bus	B7	110		
BU 110 kV B Bus	B7	110		
CS 110 kV A Bus	B7	110		
CS 110 kV B Bus	B7	110		
CS 220 kV A Bus	A7	220		
CS 220 kV B Bus	A7	220		
CS 220 kV By-Pass Bus	S7	220		
CR 110 kV A Bus		110		
CR 110 kV B Bus	B7	110		
CR 110 kV C Bus		110		
CR 110 kV D Bus		110		
CR 110 kV E Bus		110		
DP 110 kV A Bus	A7	110		
DP 110 kV C Bus	A7	110		
DP 110 kV C Bus	B7	110		
EL 110 kV A Bus	A7	110		
EL 110 kV A Bus	A7A	110		
EL 110 kV B Bus	A7	110		
EL 110 kV B Bus	A7B	110		
EB 110 kV A Bus	A7	110		
EB 110 kV B Bus	A7	110		
FA 110 kV A Bus		110		
FA 110 kV B Bus		110		
FA 220 kV A Bus		220		
FA 220 kV B Bus		220		
GT 110 kV A Bus		110		
GT 110 kV B Bus		110		
GT 220 kV B Bus		220		
GT 220 kV F Bus		220		
GT 220 kV XA Bus		220		
GT 220 kV XE Bus		220		
GO 220 kV A Bus	A7	220		
GO 220 kV B Bus	C7	220		
GO 220 kV By-Pass Bus	S7	220		
GO 220 kV C Bus	A7	220		
HA 110 kV A Bus	A7	110		
HA 110 kV B Bus	A7	110		
HA 220 kV A Bus	BW7	220		
HA 220 kV B Bus	BW7	220		
KE 110 kV Bus		110		
KI 110 kV A Bus	A7	110		
KI 110 kV B Bus	B7	110		
KR 110 kV A Bus	A7	110		

Bus Circuits					
Transformer Circuit	Bay	kV	Limit (A)	Limiting Equipment	
KR 110 kV B Bus	A7	110			
LI 220 kV A Bus		220			
LI 220 kV B Bus		220			
LF 110 kV A Bus	A7	110			
LF 110 kV B Bus	B7	110			
LF 220 kV A Bus		220			
LF 220 kV B Bus	B Bus	220			
MB 110 kV Bus	A7	110			
MT 110 kV A Bus	A7	110			
MT 110 kV B Bus	B7	110			
MY 110 kV B Bus	A7	110			
NN 110 kV A Bus	A7	110			
NN 110 kV A Bus	JK1	110			
NN 110 kV B Bus	B7	110			
NN 110 kV B Bus	JK1	110			
NW 110 kV A Bus	A7	110			
NW 110 kV B Bus	B7	110			
PM 110 kV A Bus		110			
PM 110 kV B Bus		110			
PM 220 kV A Bus		220			
PM 220 kV B Bus		220			
PM 220 kV E Bus		220			
PL 110 kV A Bus	A7	110			
PL 110 kV B Bus		110			
QT 110 kV Bus	A7	110			
RA 110 kV A Bus		110			
RA 110 kV B Bus		110			
RI 110 kV A Bus		110			
RI 110 kV B Bus		110			
RB 110 kV A Bus	AB1	110			
RB 110 kV B Bus	AB1	110			
SR 110 kV B Bus		110			
SD 110 kV A Bus Circuit	A7	110			
SD 110 kV B Bus Circuit	A7	110			
SH 110 kV A Bus		110			
SH 110 kV B Bus		110			
SH 220 kV A Bus		220			
SH 220 kV B Bus		220			
SH 220 kV E Bus		220			
ST 110 kV A Bus	A7	110			
ST 110 kV B Bus	A7	110			
TA 110 kV A Bus	E7	110			
TA 110 kV B Bus	B7	110			
TA 110 kV B Bus	C7	110			
TR 110 kV A Bus		110			
TR 110 kV B Bus		110			
TR 110 kV C Bus		110			

Bus Circuits

Transformer Circuit	Bay	kV	Limit (A)	Limiting Equipment
TR 110 kV D Bus		110		
TU 110 kV A Bus	A7	110		
TU 110 kV A Bus	G7	110		
TU 110 kV A Bus	H7	110		
TU 110 kV B Bus	C7	110		
TU 110 kV C Bus	E7	110		
UL 110 kV A Bus	A7	110		
UL 110 kV B Bus	A7	110		
UL 110 kV B Bus	A8	110		
WA 110 kV A Bus		110		
WA 110 kV B Bus	G7	110		
WA 110 kV C Bus	H7	110		
WA 110 kV E Bus	E7	110		
WA 220 kV A Bus		220		
WA 220 kV B Bus		220		
WV 110 kV A Bus	A7	110		
WV 110 kV B Bus	B7	110		