

Bus/Substation	Area	Zone	Voltage PU (Base Scenarios)			Voltage PU (Sensitivity Scenarios)	Project & Potential Mitigation Solutions
			2025 Spring Off-Peak	2028 Spring Off-Peak	2028 Summer Off-Peak	2025 OP Heavy Renewable & Min Gas Gen	
AGRILINK 60 kV	Central Coast/Los Padres	Central Coast	1.03	1.06	NA	1.03	System adjustments or voltage support if needed
BIG BASN 60 kV	Central Coast/Los Padres	Central Coast	1.04	1.05	NA	1.04	System adjustments or voltage support if needed
BURNS 60 kV	Central Coast/Los Padres	Central Coast	1.04	1.05	NA	1.04	System adjustments or voltage support if needed
CRUSHER 60 kV	Central Coast/Los Padres	Central Coast	1.04	1.05	NA	1.04	System adjustments or voltage support if needed
ERTA 60 kV	Central Coast/Los Padres	Central Coast	1.04	1.06	NA	1.04	System adjustments or voltage support if needed
GREENVALLEY 60 kV	Central Coast/Los Padres	Central Coast	1.04	1.07	NA	1.04	System adjustments or voltage support if needed
PT MRTTI 60 kV	Central Coast/Los Padres	Central Coast	1.04	1.05	NA	1.04	System adjustments or voltage support if needed
WTSNVLE 60 kV	Central Coast/Los Padres	Central Coast	1.03	1.06	NA	1.03	System adjustments or voltage support if needed
AEC 300 115 kV	Central Valley	Stockton	1.03	1.05	1.06	1.03	System adjustments or voltage support if needed
ALLEGHNY 60 kV	Central Valley	Sierra	1.02	1.06	1.07	1.02	System adjustments or voltage support if needed
ALTA-CGE 60 kV	Central Valley	Stockton	1.05	1.06	1.06	1.05	System adjustments or voltage support if needed
AM FORST 60 kV	Central Valley	Stockton	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
AMFOR_SW 60 kV	Central Valley	Stockton	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
APLHTAP1 115 kV	Central Valley	Sierra	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
APPLE HL 115 kV	Central Valley	Sierra	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
ATLANTIC 115 kV	Central Valley	Sierra	1.01	1.05	1.05	1.01	System adjustments or voltage support if needed
AVENA 115 kV	Central Valley	Stockton	1.00	1.04	1.05	1.00	System adjustments or voltage support if needed
B.BTHNY- 60 kV	Central Valley	Stockton	1.05	1.06	1.06	1.05	System adjustments or voltage support if needed
BANGOR 60 kV	Central Valley	Sierra	1.02	1.07	1.08	1.02	System adjustments or voltage support if needed
BANTA 115 kV	Central Valley	Stockton	1.00	1.04	1.05	1.01	System adjustments or voltage support if needed
BEALE 1 60 kV	Central Valley	Sierra	1.02	1.04	1.07	1.02	System adjustments or voltage support if needed
BEALE 2 60 kV	Central Valley	Sierra	1.01	1.03	1.06	1.01	System adjustments or voltage support if needed
BEARDSLY 115 kV	Central Valley	Stanislaus	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
BELL PGE 115 kV	Central Valley	Sierra	1.03	1.06	1.06	1.03	System adjustments or voltage support if needed
BRIGHTN 115 kV	Central Valley	Sacramento	1.07	1.07	1.07	1.07	System adjustments or voltage support if needed
BRKR SLG 115 kV	Central Valley	Sacramento	1.04	1.08	1.07	1.04	System adjustments or voltage support if needed
BRNSWALT 115 kV	Central Valley	Sierra	1.04	1.06	1.06	1.04	System adjustments or voltage support if needed
BRNSWCKP 115 kV	Central Valley	Sierra	1.04	1.06	1.06	1.04	System adjustments or voltage support if needed
BRUNSWCK 115 kV	Central Valley	Sierra	1.03	1.07	1.06	1.03	System adjustments or voltage support if needed
BRWNS VY 60 kV	Central Valley	Sierra	1.02	1.05	1.07	1.02	System adjustments or voltage support if needed
BUENAVISTA 60 kV	Central Valley	Stockton	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
CAL CMNT 60 kV	Central Valley	Stockton	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
CAMPUS 115 kV	Central Valley	Sacramento	1.03	1.09	1.06	1.03	System adjustments or voltage support if needed
CATARACT 115 kV	Central Valley	Stockton	1.03	1.05	1.06	1.03	System adjustments or voltage support if needed
CHCGO PK 115 kV	Central Valley	Sierra	1.04	1.07	1.06	1.04	System adjustments or voltage support if needed
CHINESESTA 115 kV	Central Valley	Stanislaus	1.02	1.04	1.05	1.02	System adjustments or voltage support if needed
CLAY 60 kV	Central Valley	Stockton	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
CLMBA HL 60 kV	Central Valley	Sierra	1.03	1.07	1.08	1.03	System adjustments or voltage support if needed
CMP FRWT 60 kV	Central Valley	Sierra	1.03	1.04	1.06	1.03	System adjustments or voltage support if needed
CNTRY CB 60 kV	Central Valley	Stockton	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
COLGATE 60 kV	Central Valley	Sierra	1.04	1.07	1.08	1.04	System adjustments or voltage support if needed
CORDELT 115 kV	Central Valley	Sacramento	1.00	1.07	1.06	1.00	System adjustments or voltage support if needed
CORRAL 60 kV	Central Valley	Stockton	1.02	1.06	1.05	1.02	System adjustments or voltage support if needed
CORRAL2 60 kV	Central Valley	Stockton	1.02	1.06	1.05	1.02	System adjustments or voltage support if needed
CORTINA 60 kV	Central Valley	Sacramento	1.06	1.02	1.02	1.06	System adjustments or voltage support if needed
CROWCREEK SS 60 kV	Central Valley	Stanislaus	1.03	1.02	1.06	1.03	System adjustments or voltage support if needed
CRWCRCSLR1 60 kV	Central Valley	Stanislaus	1.03	1.02	1.06	1.03	System adjustments or voltage support if needed
CRWS LDG 60 kV	Central Valley	Stanislaus	1.02	1.03	1.06	1.02	System adjustments or voltage support if needed
DAVIS 115 kV	Central Valley	Sacramento	1.03	1.08	1.06	1.03	System adjustments or voltage support if needed
DEEPWATR 115 kV	Central Valley	Sacramento	1.04	1.07	1.07	1.04	System adjustments or voltage support if needed
DIMOND_1 115 kV	Central Valley	Sierra	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
DIMOND_2 115 kV	Central Valley	Sierra	1.03	1.04	1.05	1.03	System adjustments or voltage support if needed
DMND SPR 115 kV	Central Valley	Sierra	1.03	1.04	1.05	1.03	System adjustments or voltage support if needed
DOBBINS 60 kV	Central Valley	Sierra	1.04	1.07	1.08	1.04	System adjustments or voltage support if needed
DONNELLS 115 kV	Central Valley	Stanislaus	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
DRUMPH1 115 kV	Central Valley	Sierra	1.05	1.06	1.06	1.05	System adjustments or voltage support if needed
DRUMPH2 115 kV	Central Valley	Sierra	1.05	1.06	1.06	1.05	System adjustments or voltage support if needed
DITCH FL2 115 kV	Central Valley	Sierra	1.05	1.06	1.06	1.05	System adjustments or voltage support if needed
DUTCHFLAT1PH 115 kV	Central Valley	Sierra	1.04	1.06	1.06	1.04	System adjustments or voltage support if needed
E.MRYSVE 115 kV	Central Valley	Sierra	1.04	1.06	1.07	1.04	System adjustments or voltage support if needed
E.NICOLS 115 kV	Central Valley	Sierra	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
ELDORAD 115 kV	Central Valley	Sierra	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
ELLS GTY 115 kV	Central Valley	Stockton	1.03	1.05	1.06	1.03	System adjustments or voltage support if needed
FLINT 115 kV	Central Valley	Sierra	1.03	1.06	1.06	1.03	System adjustments or voltage support if needed
FLINT2 115 kV	Central Valley	Sierra	1.03	1.06	1.06	1.03	System adjustments or voltage support if needed
FROGTOWN 115 kV	Central Valley	Stockton	1.02	1.05	1.06	1.02	System adjustments or voltage support if needed
GOLDHILL 115 kV	Central Valley	Sierra	1.05	1.05	1.05	1.05	System adjustments or voltage support if needed
GRAND IS 115 kV	Central Valley	Sacramento	1.07	1.08	1.08	1.07	System adjustments or voltage support if needed
GRSS VLY 60 kV	Central Valley	Sierra	1.02	1.07	1.08	1.02	System adjustments or voltage support if needed
GUSTINE 60 kV	Central Valley	Stanislaus	0.99	1.04	1.06	0.99	System adjustments or voltage support if needed
GWFTTRACY 115 kV	Central Valley	Stockton	1.03	1.05	1.06	1.03	System adjustments or voltage support if needed
HAMMER 60 kV	Central Valley	Stockton	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
HERDLYN 60 kV	Central Valley	Stockton	1.05	1.06	1.06	1.05	System adjustments or voltage support if needed
HIGGINS 115 kV	Central Valley	Sierra	1.03	1.07	1.06	1.03	System adjustments or voltage support if needed
HORSESHE 115 kV	Central Valley	Sierra	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
HORSHE1 115 kV	Central Valley	Sierra	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
HORSHE2 115 kV	Central Valley	Sierra	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
HOWLANDRD 115 kV	Central Valley	Stockton	1.00	1.04	1.05	1.00	System adjustments or voltage support if needed
INE PRSN 60 kV	Central Valley	Stockton	1.02	1.05	1.04	1.02	System adjustments or voltage support if needed
KASSON 115 kV	Central Valley	Stockton	1.01	1.04	1.05	1.01	System adjustments or voltage support if needed
KNIGHT1 115 kV	Central Valley	Sacramento	1.02	1.06	1.06	1.02	System adjustments or voltage support if needed
KNIGHT2 115 kV	Central Valley	Sacramento	1.02	1.06	1.05	1.02	System adjustments or voltage support if needed
KNIGHTLD 115 kV	Central Valley	Sacramento	1.02	1.06	1.06	1.02	System adjustments or voltage support if needed
LAMMERS 115 kV	Central Valley	Stockton	1.02	1.05	1.06	1.02	System adjustments or voltage support if needed
LEPRINO 115 kV	Central Valley	Stockton	1.01	1.04	1.05	1.01	System adjustments or voltage support if needed
LID 115 kV	Central Valley	Stockton	1.00	1.04	1.05	1.00	System adjustments or voltage support if needed
LIMESTNE 60 kV	Central Valley	Sierra	1.04	1.05	1.04	1.04	System adjustments or voltage support if needed
LINCLN 115 kV	Central Valley	Sierra	1.01	1.05	1.05	1.01	System adjustments or voltage support if needed
MARTELL 60 kV	Central Valley	Stockton	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
MCSP 60 kV	Central Valley	Stockton	1.02	1.05	1.04	1.02	System adjustments or voltage support if needed
MDWYWND 115 kV	Central Valley	Stockton	1.04	1.05	1.06	1.04	System adjustments or voltage support if needed
MELONES 115 kV	Central Valley	Stanislaus	1.02	1.05	1.05	1.02	System adjustments or voltage support if needed
MI-WUK 115 kV	Central Valley	Stanislaus	1.02	1.05	1.05	1.02	System adjustments or voltage support if needed
MIZOU_ T1 115 kV	Central Valley	Sierra	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
MIZOU_ T2 115 kV	Central Valley	Sierra	1.03	1.04	1.05	1.03	System adjustments or voltage support if needed
MOBILCHE 115 kV	Central Valley	Sacramento	1.02	1.07	1.06	1.02	System adjustments or voltage support if needed
MSHR 60V 60 kV	Central Valley	Stockton	1.01	1.05	1.05	1.02	System adjustments or voltage support if needed
N.HOGAN 60 kV	Central Valley	Stockton	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
NARRWS 1 60 kV	Central Valley	Sierra	1.02	1.06	1.08	1.02	System adjustments or voltage support if needed
NARRWS 2 60 kV	Central Valley	Sierra	1.02	1.06	1.07	1.02	System adjustments or voltage support if needed
NEWCASTL1 115 kV	Central Valley	Sierra	1.03	1.05	1.06	1.03	System adjustments or voltage support if needed

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NEWCSL2 115 kV	Central Valley	Sierra	1.03	1.05	1.06	1.03	System adjustments or voltage support if needed
NEWCSL2 115 kV	Central Valley	Sierra	1.03	1.05	1.06	1.03	System adjustments or voltage support if needed
NEWMAN 60 kV	Central Valley	Stanislaus	1.00	1.04	1.06	1.00	System adjustments or voltage support if needed
OI GLASS 115 kV	Central Valley	Stockton	1.02	1.05	1.06	1.02	System adjustments or voltage support if needed
OLETA 60 kV	Central Valley	Stockton	1.02	1.06	1.04	1.02	System adjustments or voltage support if needed
PARDEE A 60 kV	Central Valley	Stockton	1.05	1.06	1.06	1.05	System adjustments or voltage support if needed
PATTERSN 60 kV	Central Valley	Stanislaus	1.03	1.03	1.06	1.03	System adjustments or voltage support if needed
PEORIA 115 kV	Central Valley	Stanislaus	1.02	1.04	1.05	1.02	System adjustments or voltage support if needed
PIKE CTY 60 kV	Central Valley	Sierra	1.03	1.06	1.07	1.03	System adjustments or voltage support if needed
PLACER 115 kV	Central Valley	Sierra	1.03	1.06	1.06	1.03	System adjustments or voltage support if needed
PLCRVLB2 115 kV	Central Valley	Sierra	1.03	1.04	1.05	1.03	System adjustments or voltage support if needed
PLCRVLB3 115 kV	Central Valley	Sierra	1.03	1.04	1.05	1.03	System adjustments or voltage support if needed
PLCRVLT1 115 kV	Central Valley	Sierra	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
PLCRVLT2 115 kV	Central Valley	Sierra	1.03	1.04	1.05	1.03	System adjustments or voltage support if needed
PLSNT GR 115 kV	Central Valley	Sierra	1.01	1.05	1.05	1.01	System adjustments or voltage support if needed
POST 115 kV	Central Valley	Sacramento	1.04	1.07	1.07	1.04	System adjustments or voltage support if needed
PRDESW 60 kV	Central Valley	Stockton	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
Q1350 60 kV	Central Valley	Stanislaus	1.03	1.02	1.06	1.03	System adjustments or voltage support if needed
Q653F 115 kV	Central Valley	Sacramento	1.02	1.08	1.06	1.02	System adjustments or voltage support if needed
RTRACK 115 kV	Central Valley	Stanislaus	1.02	1.05	1.05	1.02	System adjustments or voltage support if needed
RBRCKLIN 115 kV	Central Valley	Sierra	1.01	1.05	1.05	1.01	System adjustments or voltage support if needed
RICE 60 kV	Central Valley	Sacramento	1.00	1.06	1.05	1.00	System adjustments or voltage support if needed
RIPONCOGEN 115 kV	Central Valley	Stockton	1.04	1.04	1.05	1.04	System adjustments or voltage support if needed
RVRBANK 115 kV	Central Valley	Stanislaus	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
SAFEWAY 115 kV	Central Valley	Stockton	1.03	1.05	1.06	1.03	System adjustments or voltage support if needed
SALADO 60 kV	Central Valley	Stanislaus	1.04	1.03	1.05	1.04	System adjustments or voltage support if needed
SANDBAR 115 kV	Central Valley	Stanislaus	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
SCHULTE 115 kV	Central Valley	Stockton	1.03	1.05	1.06	1.03	System adjustments or voltage support if needed
SHPRING 115 kV	Central Valley	Sierra	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
SHPRING2 115 kV	Central Valley	Sierra	1.04	1.04	1.05	1.04	System adjustments or voltage support if needed
SMRTSVLE 60 kV	Central Valley	Sierra	1.02	1.05	1.07	1.02	System adjustments or voltage support if needed
SMRTVLE1 60 kV	Central Valley	Sierra	1.02	1.05	1.07	1.02	System adjustments or voltage support if needed
SOUTH BY 60 kV	Central Valley	Stockton	1.05	1.06	1.06	1.05	System adjustments or voltage support if needed
SPICAMIN 115 kV	Central Valley	Sierra	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
SPL-LINC 115 kV	Central Valley	Sierra	1.02	1.05	1.05	1.02	System adjustments or voltage support if needed
SPRING GP 115 kV	Central Valley	Stanislaus	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
STAGG 60 kV	Central Valley	Stockton	1.05	1.05	1.05	1.05	System adjustments or voltage support if needed
STANISLS 115 kV	Central Valley	Stockton	1.03	1.06	1.06	1.03	System adjustments or voltage support if needed
STNSLSRP 60 kV	Central Valley	Stanislaus	1.03	1.03	1.06	1.03	System adjustments or voltage support if needed
SUMMIT 60 kV	Central Valley	Sierra	1.03	1.05	1.04	1.03	System adjustments or voltage support if needed
TCHRT_ T2 115 kV	Central Valley	Stockton	1.02	1.04	1.05	1.02	System adjustments or voltage support if needed
TESLA 115 kV	Central Valley	Stockton	1.04	1.05	1.06	1.04	System adjustments or voltage support if needed
TESLAMTR 115 kV	Central Valley	Stockton	1.03	1.04	1.05	1.03	System adjustments or voltage support if needed
TOSCO-PP 60 kV	Central Valley	Stockton	1.05	1.06	1.06	1.05	System adjustments or voltage support if needed
TRACY 115 kV	Central Valley	Stockton	1.01	1.04	1.05	1.01	System adjustments or voltage support if needed
TULLOCH 115 kV	Central Valley	Stanislaus	1.03	1.04	1.05	1.03	System adjustments or voltage support if needed
UOP 60 kV	Central Valley	Stockton	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
VACA-DXN 60 kV	Central Valley	Sacramento	1.06	1.05	1.05	1.06	System adjustments or voltage support if needed
VALLY HM 115 kV	Central Valley	Stanislaus	1.00	1.05	1.05	1.00	System adjustments or voltage support if needed
VIERRA 115 kV	Central Valley	Stockton	1.00	1.04	1.05	1.00	System adjustments or voltage support if needed
VLLY SPS 60 kV	Central Valley	Stockton	1.05	1.05	1.05	1.05	System adjustments or voltage support if needed
VS1A000-001D 60 kV	Central Valley	Stockton	1.05	1.05	1.05	1.05	System adjustments or voltage support if needed
VSC000-002 60 kV	Central Valley	Stockton	1.05	1.05	1.05	1.05	System adjustments or voltage support if needed
VSLDSW87 60 kV	Central Valley	Stockton	1.05	1.05	1.06	1.05	System adjustments or voltage support if needed
W SCRMNO 115 kV	Central Valley	Sacramento	1.04	1.07	1.07	1.04	System adjustments or voltage support if needed
WEST SDE 60 kV	Central Valley	Stockton	1.05	1.05	1.06	1.05	System adjustments or voltage support if needed
WOODLANDBIOM 115 kV	Central Valley	Sacramento	1.02	1.07	1.06	1.02	System adjustments or voltage support if needed
WOODLD 115 kV	Central Valley	Sacramento	1.02	1.07	1.06	1.02	System adjustments or voltage support if needed
WPVS-021-098 60 kV	Central Valley	Stockton	1.05	1.05	1.05	1.05	System adjustments or voltage support if needed
WSTLNESW 60 kV	Central Valley	Stockton	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
YUBAGOLD 60 kV	Central Valley	Sierra	1.02	1.05	1.07	1.02	System adjustments or voltage support if needed
ZAMORA 115 kV	Central Valley	Sacramento	1.02	1.06	1.06	1.02	System adjustments or voltage support if needed
ZAMORAT 115 kV	Central Valley	Sacramento	1.02	1.06	1.06	1.02	System adjustments or voltage support if needed
ZAMORAZ 115 kV	Central Valley	Sacramento	1.02	1.06	1.06	1.02	System adjustments or voltage support if needed
A100US 115 kV	Greater Bay Area	Mission	1.05	1.05	NA	1.05	System adjustments or voltage support if needed
CLMBIAHS 115 kV	Greater Bay Area	Diablo	1.03	1.05	NA	1.03	System adjustments or voltage support if needed
CYTE PMP 115 kV	Greater Bay Area	San Jose	1.05	1.06	NA	1.05	System adjustments or voltage support if needed
DOW TAP2 115 kV	Greater Bay Area	Diablo	1.03	1.05	NA	1.03	System adjustments or voltage support if needed
DYERWIND 60 kV	Greater Bay Area	Mission	1.05	1.06	NA	1.05	System adjustments or voltage support if needed
E DUBLIN 60 kV	Greater Bay Area	Mission	1.00	1.05	NA	1.00	System adjustments or voltage support if needed
EASTSHRE 115 kV	Greater Bay Area	Mission	1.05	1.05	NA	1.05	System adjustments or voltage support if needed
EDENVALE 115 kV	Greater Bay Area	San Jose	1.05	1.06	NA	1.05	System adjustments or voltage support if needed
IBM-BALY 115 kV	Greater Bay Area	San Jose	1.05	1.06	NA	1.05	System adjustments or voltage support if needed
IBM-HRRS 115 kV	Greater Bay Area	San Jose	1.05	1.06	NA	1.05	System adjustments or voltage support if needed
KIRKTAP2 115 kV	Greater Bay Area	Diablo	1.03	1.05	NA	1.03	System adjustments or voltage support if needed
LOS ALTS 60 kV	Greater Bay Area	De Anza	1.03	1.05	NA	1.03	System adjustments or voltage support if needed
LOS GATS 60 kV	Greater Bay Area	De Anza	1.03	1.05	NA	1.03	System adjustments or voltage support if needed
LOYOLA 60 kV	Greater Bay Area	De Anza	1.04	1.05	NA	1.04	System adjustments or voltage support if needed
MCKEE 115 kV	Greater Bay Area	San Jose	1.03	1.05	NA	1.02	System adjustments or voltage support if needed
MINTA VSA 60 kV	Greater Bay Area	De Anza	1.06	1.05	NA	1.06	System adjustments or voltage support if needed
MITCALF D 115 kV	Greater Bay Area	San Jose	1.05	1.06	NA	1.05	System adjustments or voltage support if needed
MITCALF E 115 kV	Greater Bay Area	San Jose	1.05	1.06	NA	1.05	System adjustments or voltage support if needed
PARKS 60 kV	Greater Bay Area	Mission	1.00	1.05	NA	1.00	System adjustments or voltage support if needed
PERMNITE 60 kV	Greater Bay Area	De Anza	1.05	1.04	NA	1.05	System adjustments or voltage support if needed
PIERCY 115 kV	Greater Bay Area	San Jose	1.03	1.05	NA	1.03	System adjustments or voltage support if needed
Q1454 115 kV	Greater Bay Area	San Jose	1.05	1.05	NA	1.05	System adjustments or voltage support if needed
SAN RAMIN 60 kV	Greater Bay Area	Mission	1.00	1.06	NA	1.00	System adjustments or voltage support if needed
ST TRESA 115 kV	Greater Bay Area	San Jose	1.05	1.06	NA	1.05	System adjustments or voltage support if needed
UNITEDSP 115 kV	Greater Bay Area	Diablo	1.03	1.05	NA	1.03	System adjustments or voltage support if needed
ADERASLR 115 kV	Greater Fresno	Yosemite	1.01	1.03	1.05	1.01	System adjustments or voltage support if needed
AIRPROD 115 kV	Greater Fresno	Fresno	1.03	1.07	1.07	1.02	System adjustments or voltage support if needed
AIRWAYS 115 kV	Greater Fresno	Fresno	1.01	1.06	1.07	1.00	System adjustments or voltage support if needed
AIRWAYS2 115 kV	Greater Fresno	Fresno	1.01	1.06	1.07	1.01	System adjustments or voltage support if needed
AMSTG SW 70 kV	Greater Fresno	Fresno	0.98	1.05	1.04	0.99	System adjustments or voltage support if needed
ANGIOLA 70 kV	Greater Fresno	Fresno	0.99	1.08	1.07	0.99	System adjustments or voltage support if needed
ARBURI T 70 kV	Greater Fresno	Yosemite	0.99	1.05	1.05	1.00	System adjustments or voltage support if needed
ARMSTRNG 70 kV	Greater Fresno	Fresno	0.98	1.05	1.04	0.99	System adjustments or voltage support if needed
ATWATER 115 kV	Greater Fresno	Yosemite	1.02	1.03	1.06	1.02	System adjustments or voltage support if needed
AUBERRY 70 kV	Greater Fresno	Fresno	0.99	1.07	1.05	0.99	System adjustments or voltage support if needed
BALCH 115 kV	Greater Fresno	Fresno	1.04	1.06	1.07	1.03	System adjustments or voltage support if needed
BARTON 115 kV	Greater Fresno	Fresno	1.01	1.05	1.07	1.01	System adjustments or voltage support if needed

Bus/Substation	Area	Zone	Voltage PU (Base Scenarios)			Voltage PU (Sensitivity Scenarios)	Project & Potential Mitigation Solutions
			2025 Spring Off-Peak	2028 Spring Off-Peak	2028 Summer Off-Peak	2025 OP Heavy Renewable & Min Gas Gen	
BIOLA 70 kV	Greater Fresno	Fresno	1.02	1.05	1.04	1.02	System adjustments or voltage support if needed
BONITA 70 kV	Greater Fresno	Yosemite	1.02	1.06	1.04	1.02	System adjustments or voltage support if needed
BOSWELL 70 kV	Greater Fresno	Fresno	0.99	1.08	1.07	1.00	System adjustments or voltage support if needed
BOWLES 70 kV	Greater Fresno	Fresno	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
BULLARD 115 kV	Greater Fresno	Fresno	1.01	1.05	1.07	1.00	System adjustments or voltage support if needed
CAL AVE 115 kV	Greater Fresno	Fresno	1.00	1.07	1.07	1.00	System adjustments or voltage support if needed
CALPEAKPNCH 115 kV	Greater Fresno	Yosemite	1.05	1.06	1.05	1.05	System adjustments or voltage support if needed
CAMDEN 70 kV	Greater Fresno	Fresno	0.96	1.06	1.05	0.96	System adjustments or voltage support if needed
CANAL 70 kV	Greater Fresno	Yosemite	0.97	1.06	1.05	0.98	System adjustments or voltage support if needed
CANANDGA 70 kV	Greater Fresno	Yosemite	1.04	1.05	1.04	1.04	System adjustments or voltage support if needed
CARUTHRS 70 kV	Greater Fresno	Fresno	1.04	1.06	1.05	1.04	System adjustments or voltage support if needed
CERTAN T 115 kV	Greater Fresno	Yosemite	1.01	1.03	1.05	1.01	System adjustments or voltage support if needed
CERTTEED 115 kV	Greater Fresno	Yosemite	1.01	1.03	1.05	1.01	System adjustments or voltage support if needed
CHENY 115 kV	Greater Fresno	Yosemite	1.05	1.06	1.05	1.05	System adjustments or voltage support if needed
CHENYT 115 kV	Greater Fresno	Yosemite	1.05	1.06	1.05	1.05	System adjustments or voltage support if needed
CHLDHOSP 115 kV	Greater Fresno	Fresno	1.03	1.05	1.07	1.02	System adjustments or voltage support if needed
CHWCGN 115 kV	Greater Fresno	Yosemite	1.01	1.03	1.05	1.01	System adjustments or voltage support if needed
CHWCHLA2BM 115 kV	Greater Fresno	Yosemite	1.01	1.03	1.05	1.01	System adjustments or voltage support if needed
CHWCHLLA 115 kV	Greater Fresno	Yosemite	1.01	1.03	1.05	1.01	System adjustments or voltage support if needed
CLOVIS-1 115 kV	Greater Fresno	Fresno	1.02	1.07	1.07	1.01	System adjustments or voltage support if needed
CLOVIS-2 115 kV	Greater Fresno	Fresno	1.01	1.07	1.08	1.01	System adjustments or voltage support if needed
COPPRMNE 70 kV	Greater Fresno	Fresno	1.02	1.05	1.05	1.02	System adjustments or voltage support if needed
CORCORAN 115 kV	Greater Fresno	Fresno	0.99	1.07	1.07	0.99	System adjustments or voltage support if needed
CORCORAN 70 kV	Greater Fresno	Fresno	1.00	1.08	1.08	1.00	System adjustments or voltage support if needed
CORCORAN2 115 kV	Greater Fresno	Fresno	0.99	1.07	1.07	0.99	System adjustments or voltage support if needed
CORCORANPV_P 115 kV	Greater Fresno	Fresno	0.99	1.07	1.07	0.99	System adjustments or voltage support if needed
CORSGOLD 115 kV	Greater Fresno	Yosemite	1.00	1.07	1.07	1.00	System adjustments or voltage support if needed
CRESCENTSS 70 kV	Greater Fresno	Fresno	1.04	1.04	1.04	1.05	System adjustments or voltage support if needed
CRESSEY 115 kV	Greater Fresno	Yosemite	1.01	1.03	1.06	1.01	System adjustments or voltage support if needed
DANISHCM 115 kV	Greater Fresno	Fresno	1.01	1.07	1.07	1.00	System adjustments or voltage support if needed
DFS 115 kV	Greater Fresno	Yosemite	1.03	1.06	1.06	1.04	System adjustments or voltage support if needed
EL CAPTN 115 kV	Greater Fresno	Yosemite	1.02	1.04	1.06	1.02	System adjustments or voltage support if needed
EL NIDO 115 kV	Greater Fresno	Yosemite	1.03	1.05	1.06	1.03	System adjustments or voltage support if needed
EL PECO 70 kV	Greater Fresno	Yosemite	1.03	1.05	1.04	1.03	System adjustments or voltage support if needed
ELPECO T 70 kV	Greater Fresno	Yosemite	1.03	1.05	1.04	1.04	System adjustments or voltage support if needed
EXCHEOUR 115 kV	Greater Fresno	Yosemite	1.04	1.05	1.07	1.04	System adjustments or voltage support if needed
FRESNOWW 70 kV	Greater Fresno	Fresno	1.05	1.05	1.04	1.05	System adjustments or voltage support if needed
FRIANTDAM 70 kV	Greater Fresno	Fresno	1.02	1.05	1.04	1.02	System adjustments or voltage support if needed
FRSHWTR 115 kV	Greater Fresno	Fresno	0.99	1.07	1.07	0.99	System adjustments or voltage support if needed
GALLO 115 kV	Greater Fresno	Yosemite	1.01	1.03	1.06	1.01	System adjustments or voltage support if needed
GLASS 70 kV	Greater Fresno	Yosemite	1.04	1.05	1.04	1.04	System adjustments or voltage support if needed
GRDNGLS1WB 115 kV	Greater Fresno	Fresno	1.02	1.06	1.06	1.02	System adjustments or voltage support if needed
GRDNGLS2EB 115 kV	Greater Fresno	Fresno	1.02	1.06	1.06	1.02	System adjustments or voltage support if needed
GUERNSEY 70 kV	Greater Fresno	Fresno	0.98	1.05	1.04	0.99	System adjustments or voltage support if needed
HAMMONDS 115 kV	Greater Fresno	Yosemite	1.04	1.06	1.05	1.04	System adjustments or voltage support if needed
HARDWICK 70 kV	Greater Fresno	Fresno	1.00	1.06	1.06	1.00	System adjustments or voltage support if needed
HERNDON 115 kV	Greater Fresno	Fresno	1.03	1.05	1.06	1.02	System adjustments or voltage support if needed
HNFRD SW 70 kV	Greater Fresno	Fresno	1.00	1.06	1.06	1.00	System adjustments or voltage support if needed
KAMM 115 kV	Greater Fresno	Fresno	1.04	1.05	1.05	1.05	System adjustments or voltage support if needed
KEARNEY 70 kV	Greater Fresno	Fresno	1.05	1.05	1.05	1.05	System adjustments or voltage support if needed
KERCKHF1 115 kV	Greater Fresno	Fresno	1.03	1.07	1.07	1.02	System adjustments or voltage support if needed
KERCKHOFFPH2 115 kV	Greater Fresno	Fresno	1.03	1.07	1.07	1.02	System adjustments or voltage support if needed
KINGSBURGD 115 kV	Greater Fresno	Fresno	1.01	1.06	1.06	1.01	System adjustments or voltage support if needed
KINGSBURGE 115 kV	Greater Fresno	Fresno	1.01	1.06	1.06	1.01	System adjustments or voltage support if needed
KINGLOBUS 70 kV	Greater Fresno	Fresno	1.01	1.06	1.06	1.01	System adjustments or voltage support if needed
KNGSCOGN 115 kV	Greater Fresno	Fresno	1.02	1.06	1.06	1.02	System adjustments or voltage support if needed
KNGSRVR1 115 kV	Greater Fresno	Fresno	NA	1.07	1.07	1.03	System adjustments or voltage support if needed
KRCDP 115 kV	Greater Fresno	Fresno	1.03	1.07	1.07	1.02	System adjustments or voltage support if needed
LASPALMS 115 kV	Greater Fresno	Fresno	1.01	1.06	1.07	1.01	System adjustments or voltage support if needed
LE GRAND 115 kV	Greater Fresno	Yosemite	1.01	1.04	1.06	1.01	System adjustments or voltage support if needed
LIVNGSTN 115 kV	Greater Fresno	Yosemite	1.01	1.02	1.06	1.01	System adjustments or voltage support if needed
LIVNGSTN 70 kV	Greater Fresno	Yosemite	0.90	1.09	1.03	0.91	System adjustments or voltage support if needed
LUIS_#3 115 kV	Greater Fresno	Yosemite	1.04	1.06	1.05	1.04	System adjustments or voltage support if needed
LUIS_#5 115 kV	Greater Fresno	Yosemite	1.04	1.06	1.05	1.04	System adjustments or voltage support if needed
LIVNGSTNT 70 kV	Greater Fresno	Yosemite	0.98	1.07	1.05	0.98	System adjustments or voltage support if needed
MADERA 70 kV	Greater Fresno	Yosemite	1.04	1.05	1.04	1.04	System adjustments or voltage support if needed
MALAGA 115 kV	Greater Fresno	Fresno	1.03	1.07	1.07	1.02	System adjustments or voltage support if needed
MANCHSTR 115 kV	Greater Fresno	Fresno	1.01	1.06	1.07	1.01	System adjustments or voltage support if needed
MC CALL 115 kV	Greater Fresno	Fresno	1.03	1.07	1.07	1.03	System adjustments or voltage support if needed
MERCED 115 kV	Greater Fresno	Yosemite	1.02	1.03	1.06	1.02	System adjustments or voltage support if needed
MERCYSPRNGSS 70 kV	Greater Fresno	Yosemite	0.99	1.05	1.05	1.00	System adjustments or voltage support if needed
MRCYSPRS 70 kV	Greater Fresno	Yosemite	0.98	1.06	1.05	1.00	System adjustments or voltage support if needed
NRTHFORK 70 kV	Greater Fresno	Yosemite	0.99	1.07	1.06	0.99	System adjustments or voltage support if needed
OAKHURST 115 kV	Greater Fresno	Yosemite	1.00	1.07	1.07	0.99	System adjustments or voltage support if needed
ORO LOMA 115 kV	Greater Fresno	Yosemite	1.03	1.06	1.06	1.03	System adjustments or voltage support if needed
ORTIGA 70 kV	Greater Fresno	Yosemite	0.98	1.06	1.05	0.99	System adjustments or voltage support if needed
OXFORD 115 kV	Greater Fresno	Yosemite	1.04	1.06	1.05	1.05	System adjustments or voltage support if needed
PAN2_TAP 115 kV	Greater Fresno	Yosemite	1.05	1.06	1.05	1.05	System adjustments or voltage support if needed
PANOCHET1 115 kV	Greater Fresno	Yosemite	1.05	1.06	1.05	1.05	System adjustments or voltage support if needed
PANOCHET2 115 kV	Greater Fresno	Yosemite	1.05	1.06	1.05	1.05	System adjustments or voltage support if needed
PANOCHET 115 kV	Greater Fresno	Yosemite	1.05	1.06	1.05	1.05	System adjustments or voltage support if needed
PARLIER 115 kV	Greater Fresno	Fresno	1.01	1.07	1.07	1.00	System adjustments or voltage support if needed
PIEDRA 1 115 kV	Greater Fresno	Fresno	1.01	1.07	1.07	1.01	System adjustments or voltage support if needed
PIEDRA 2 115 kV	Greater Fresno	Fresno	1.02	1.07	1.07	1.02	System adjustments or voltage support if needed
PNEDLE 115 kV	Greater Fresno	Fresno	1.01	1.05	1.07	1.01	System adjustments or voltage support if needed
PNEDLE2 115 kV	Greater Fresno	Fresno	1.02	1.05	1.07	1.01	System adjustments or voltage support if needed
PPG 115 kV	Greater Fresno	Fresno	1.03	1.07	1.07	1.02	System adjustments or voltage support if needed
RAINBW 115 kV	Greater Fresno	Fresno	1.01	1.07	1.07	1.01	System adjustments or voltage support if needed
RANCHRS 115 kV	Greater Fresno	Fresno	1.03	1.07	1.07	1.02	System adjustments or voltage support if needed
REEDLEY 115 kV	Greater Fresno	Fresno	1.00	1.07	1.07	1.00	System adjustments or voltage support if needed
RESERVE 70 kV	Greater Fresno	Fresno	0.98	1.05	1.04	0.99	System adjustments or voltage support if needed
RIORVOFNSO 115 kV	Greater Fresno	Fresno	1.03	1.07	1.07	1.02	System adjustments or voltage support if needed
RIVERROC 70 kV	Greater Fresno	Fresno	1.02	1.05	1.04	1.02	System adjustments or voltage support if needed
RVRROCK T 70 kV	Greater Fresno	Fresno	1.02	1.05	1.04	1.02	System adjustments or voltage support if needed
SANGER 115 kV	Greater Fresno	Fresno	1.02	1.07	1.07	1.01	System adjustments or voltage support if needed
SANGERCNGN 115 kV	Greater Fresno	Fresno	1.02	1.07	1.07	1.01	System adjustments or voltage support if needed
SCHINDLR 115 kV	Greater Fresno	Fresno	1.03	1.05	1.05	1.05	System adjustments or voltage support if needed
SESWTF 115 kV	Greater Fresno	Fresno	1.01	1.06	1.07	1.00	System adjustments or voltage support if needed
SHARON 115 kV	Greater Fresno	Yosemite	1.01	1.04	1.06	1.01	System adjustments or voltage support if needed
SHEPHERD 115 kV	Greater Fresno	Fresno	1.03	1.06	1.07	1.02	System adjustments or voltage support if needed
STARWDPNCH 115 kV	Greater Fresno	Yosemite	1.05	1.06	1.05	1.05	System adjustments or voltage support if needed

Bus/Substation	Area	Zone	Voltage PU (Base Scenarios)			Voltage PU (Sensitivity Scenarios)	Project & Potential Mitigation Solutions
			2025 Spring Off-Peak	2028 Spring Off-Peak	2028 Summer Off-Peak	2025 OP Heavy Renewable & Min Gas Gen	
STROUD 70 kV	Greater Fresno	Fresno	1.03	1.05	1.05	1.04	System adjustments or voltage support if needed
SUNMAID 115 kV	Greater Fresno	Fresno	1.02	1.06	1.06	1.02	System adjustments or voltage support if needed
TRIGO 70 kV	Greater Fresno	Yosemite	1.04	1.05	1.04	1.04	System adjustments or voltage support if needed
VEGA 70 kV	Greater Fresno	Yosemite	0.99	1.05	1.05	1.00	System adjustments or voltage support if needed
WAHITOKE 115 kV	Greater Fresno	Fresno	1.01	1.07	1.07	1.01	System adjustments or voltage support if needed
WAIKENA_SS 115 kV	Greater Fresno	Fresno	0.99	1.07	1.07	0.99	System adjustments or voltage support if needed
WESTLINDS 115 kV	Greater Fresno	Fresno	1.04	1.05	1.05	1.05	System adjustments or voltage support if needed
WILSONPGAE 115 kV	Greater Fresno	Yosemite	1.03	1.03	1.06	1.03	System adjustments or voltage support if needed
WILSONSTCOM 115 kV	Greater Fresno	Yosemite	1.04	1.03	1.06	1.04	System adjustments or voltage support if needed
WISHON 70 kV	Greater Fresno	Fresno	1.00	1.06	1.05	1.00	System adjustments or voltage support if needed
WOODWARD 115 kV	Greater Fresno	Fresno	1.03	1.06	1.07	1.02	System adjustments or voltage support if needed
WST FRSO 115 kV	Greater Fresno	Fresno	1.00	1.07	1.07	1.00	System adjustments or voltage support if needed
WSTLDIRA 115 kV	Greater Fresno	Yosemite	1.04	1.06	1.05	1.05	System adjustments or voltage support if needed
BIG LAGN 60 kV	Humboldt	Humboldt	1.06	1.04	NA	1.06	System adjustments or voltage support if needed
ORICK 60 kV	Humboldt	Humboldt	1.06	1.03	NA	1.06	System adjustments or voltage support if needed
TRINIDAD 60 kV	Humboldt	Humboldt	1.05	1.04	NA	1.05	System adjustments or voltage support if needed
AIDLINGYSR 115 kV	North Coast/North Bay	North Coast	1.03	1.05	NA	1.03	System adjustments or voltage support if needed
ANNAPOLS 60 kV	North Coast/North Bay	North Coast	1.00	1.06	NA	1.00	System adjustments or voltage support if needed
CALPELLA 115 kV	North Coast/North Bay	North Coast	1.05	1.06	NA	1.05	System adjustments or voltage support if needed
CARQUINZ 115 kV	North Coast/North Bay	North Bay	1.02	1.07	NA	1.02	System adjustments or voltage support if needed
CLOVRDLE 115 kV	North Coast/North Bay	North Coast	1.03	1.05	NA	1.03	System adjustments or voltage support if needed
COTATI 60 kV	North Coast/North Bay	North Coast	0.99	1.05	NA	0.99	System adjustments or voltage support if needed
FORT RSS 60 kV	North Coast/North Bay	North Coast	1.00	1.06	NA	1.00	System adjustments or voltage support if needed
FULTON 115 kV	North Coast/North Bay	North Coast	1.01	1.06	NA	1.01	System adjustments or voltage support if needed
GUALALA 60 kV	North Coast/North Bay	North Coast	0.98	1.06	NA	0.98	System adjustments or voltage support if needed
HIGHWAY 115 kV	North Coast/North Bay	North Bay	1.00	1.07	NA	1.00	System adjustments or voltage support if needed
IGNACIO 115 kV	North Coast/North Bay	North Bay	1.02	1.07	NA	1.02	System adjustments or voltage support if needed
LS GLINS 115 kV	North Coast/North Bay	North Bay	1.02	1.07	NA	1.02	System adjustments or voltage support if needed
LUCERNE 115 kV	North Coast/North Bay	North Coast	1.04	1.05	NA	1.04	System adjustments or voltage support if needed
MENDOCNO 115 kV	North Coast/North Bay	North Coast	1.06	1.06	NA	1.06	System adjustments or voltage support if needed
MIRABEL 60 kV	North Coast/North Bay	North Coast	1.03	1.05	NA	1.03	System adjustments or voltage support if needed
MTCLCLOPH 115 kV	North Coast/North Bay	North Bay	1.00	1.07	NA	1.00	System adjustments or voltage support if needed
MONROE1 115 kV	North Coast/North Bay	North Coast	0.99	1.05	NA	0.99	System adjustments or voltage support if needed
MONROE2 115 kV	North Coast/North Bay	North Coast	0.99	1.05	NA	0.99	System adjustments or voltage support if needed
MONTCLO 115 kV	North Coast/North Bay	North Bay	1.00	1.07	NA	1.00	System adjustments or voltage support if needed
MONTE RO 60 kV	North Coast/North Bay	North Coast	1.01	1.05	NA	1.01	System adjustments or voltage support if needed
NTWR ALT 115 kV	North Coast/North Bay	North Bay	1.00	1.07	NA	1.00	System adjustments or voltage support if needed
REDBUD 115 kV	North Coast/North Bay	North Coast	1.04	1.06	NA	1.04	System adjustments or voltage support if needed
RINCON 115 kV	North Coast/North Bay	North Coast	1.01	1.06	NA	1.01	System adjustments or voltage support if needed
SAN RAFL 115 kV	North Coast/North Bay	North Bay	1.01	1.07	NA	1.01	System adjustments or voltage support if needed
SILVERDO 115 kV	North Coast/North Bay	North Bay	1.00	1.06	NA	1.00	System adjustments or voltage support if needed
SKAGGS 115 kV	North Coast/North Bay	North Bay	1.02	1.07	NA	1.02	System adjustments or voltage support if needed
SLMN CRK 60 kV	North Coast/North Bay	North Coast	1.00	1.06	NA	1.00	System adjustments or voltage support if needed
SNMA TAP 60 kV	North Coast/North Bay	North Coast	0.99	1.05	NA	0.99	System adjustments or voltage support if needed
SNMALDFL 60 kV	North Coast/North Bay	North Coast	0.99	1.05	NA	0.99	System adjustments or voltage support if needed
SNTA RSA 115 kV	North Coast/North Bay	North Coast	0.99	1.05	NA	0.99	System adjustments or voltage support if needed
UKIAH 115 kV	North Coast/North Bay	North Coast	1.04	1.06	NA	1.04	System adjustments or voltage support if needed
ANITA 60 kV	North Valley	North Valley	1.01	1.03	1.05	1.01	System adjustments or voltage support if needed
BUTTE 115 kV	North Valley	North Valley	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
CASCADE 115 kV	North Valley	North Valley	1.04	1.06	1.04	1.04	System adjustments or voltage support if needed
CEDR CRK 60 kV	North Valley	North Valley	1.04	1.06	1.06	1.04	System adjustments or voltage support if needed
CHALLENGE 60 kV	North Valley	North Valley	1.03	1.07	1.08	1.03	System adjustments or voltage support if needed
CLOV TAP 60 kV	North Valley	North Valley	1.04	1.06	1.06	1.04	System adjustments or voltage support if needed
CORNING 60 kV	North Valley	North Valley	1.02	1.06	1.04	1.02	System adjustments or voltage support if needed
DIRYVILLE 60 kV	North Valley	North Valley	0.99	1.05	1.04	0.99	System adjustments or voltage support if needed
ELKCREEK 60 kV	North Valley	North Valley	1.04	1.07	1.07	1.04	System adjustments or voltage support if needed
FORBSTWN 115 kV	North Valley	North Valley	1.05	1.05	1.06	1.05	System adjustments or voltage support if needed
HAMILTON 60 kV	North Valley	North Valley	1.03	1.06	1.05	1.03	System adjustments or voltage support if needed
HONCUT 115 kV	North Valley	North Valley	1.05	1.05	1.06	1.05	System adjustments or voltage support if needed
KILARC 60 kV	North Valley	North Valley	1.04	1.06	1.06	1.04	System adjustments or voltage support if needed
NORD 115 kV	North Valley	North Valley	1.02	1.06	1.05	1.02	System adjustments or voltage support if needed
NOTRDAME 115 kV	North Valley	North Valley	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
OLSENHYDRO 60 kV	North Valley	North Valley	1.04	1.06	1.06	1.04	System adjustments or voltage support if needed
OREGNTRL 115 kV	North Valley	North Valley	1.04	1.05	1.04	1.04	System adjustments or voltage support if needed
ORLAND B 60 kV	North Valley	North Valley	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
OWID 115 kV	North Valley	North Valley	1.05	1.05	1.06	1.05	System adjustments or voltage support if needed
PALERMO 115 kV	North Valley	North Valley	1.06	1.06	1.06	1.06	System adjustments or voltage support if needed
PARADSE 115 kV	North Valley	North Valley	1.03	1.05	1.05	1.03	System adjustments or voltage support if needed
RED BLFF 60 kV	North Valley	North Valley	1.01	1.05	1.04	1.01	System adjustments or voltage support if needed
SLYCREEK 115 kV	North Valley	North Valley	1.06	1.05	1.06	1.06	System adjustments or voltage support if needed
SYCAMORE 115 kV	North Valley	North Valley	1.02	1.06	1.05	1.02	System adjustments or voltage support if needed
TKO TAP 60 kV	North Valley	North Valley	1.04	1.05	1.05	1.04	System adjustments or voltage support if needed
VINA 60 kV	North Valley	North Valley	0.97	1.05	1.04	0.97	System adjustments or voltage support if needed
WHITMORE 60 kV	North Valley	North Valley	1.04	1.06	1.06	1.04	System adjustments or voltage support if needed
WILLOWS 60 kV	North Valley	North Valley	1.02	1.05	1.05	1.02	System adjustments or voltage support if needed
WYANDTTE 115 kV	North Valley	North Valley	1.05	1.06	1.06	1.05	System adjustments or voltage support if needed