



Bus/Substation	Zone	Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	Project & Potential Mitigation Solutions
		2023 Spring Off-Peak	2026 Spring Off-Peak	2031 Spring Off-Peak		2023 Spring Off-Peak High Renewables Minimum Gas	
RM_TM_12 500 kV	300 - Bulk System	1.1159	1.0595	1.0591	1.0665	1.0533	- Round Mountain DRS Projects - Expected ISD: Jun. 2024 - Short term: Action Plan
RM_TM_22 500 kV	300 - Bulk System	1.1167	1.0598	1.0593	1.0667	1.0534	
ORICK 60 kV	301 - Humboldt	1.0217	1.0278	1.052	1.0465	1.0277	System adjustments or voltage support if needed
MENDOCNO 115 kV	302 - North Coast	1.0699	1.0705	1.0621	1.0543	1.0586	System adjustments or voltage support if needed
CALPELLA 115 kV	302 - North Coast	1.0646	1.0692	1.0607	1.0531	1.0552	System adjustments or voltage support if needed
UKIAH 115 kV	302 - North Coast	1.0563	1.0667	1.0583	1.0513	1.05	System adjustments or voltage support if needed
CLOVRDLE 115 kV	302 - North Coast	1.0353	1.0581	1.0515	1.0467	1.0384	System adjustments or voltage support if needed
MPE 115 kV	302 - North Coast	1.0347	1.0532	1.0479	1.0446	1.038	System adjustments or voltage support if needed
LUCERNE 115 kV	302 - North Coast	1.0507	1.0611	1.0554	1.0521	1.0457	System adjustments or voltage support if needed
REDBUD 115 kV	302 - North Coast	1.0454	1.06	1.0556	1.0501	1.0443	System adjustments or voltage support if needed
INDIN VL 115 kV	302 - North Coast	1.0429	1.053	1.0496	1.0501	1.0403	System adjustments or voltage support if needed
HIGHLAND 115 kV	302 - North Coast	1.0271	1.052	1.0479	1.046	1.0328	System adjustments or voltage support if needed
FULTON 115 kV	302 - North Coast	1.0052	1.0572	1.0426	1.0378	1.0192	System adjustments or voltage support if needed
MONROE1 115 kV	302 - North Coast	0.9977	1.0572	1.0407	1.0338	1.0128	System adjustments or voltage support if needed
MONROE2 115 kV	302 - North Coast	0.9968	1.0585	1.0406	1.0336	1.012	System adjustments or voltage support if needed
SNTA RSA 115 kV	302 - North Coast	0.9955	1.0571	1.0397	1.0322	1.0107	System adjustments or voltage support if needed
STONY PT 115 kV	302 - North Coast	0.9981	1.0531	1.0364	1.0291	1.0121	System adjustments or voltage support if needed
BELLVUE 115 kV	302 - North Coast	1.0004	1.0544	1.036	1.0288	1.0139	System adjustments or voltage support if needed
RINCON 115 kV	302 - North Coast	1.0066	1.0602	1.0474	1.0412	1.0208	System adjustments or voltage support if needed
GUALALA 60 kV	302 - North Coast	1.0037	1.0654	1.0595	1.038	1.0266	System adjustments or voltage support if needed
ANNAPOLS 60 kV	302 - North Coast	1.0124	1.063	1.057	1.0401	1.0301	System adjustments or voltage support if needed
FORT RSS 60 kV	302 - North Coast	1.0165	1.0604	1.0543	1.0401	1.031	System adjustments or voltage support if needed
SLMN CRK 60 kV	302 - North Coast	1.0164	1.0581	1.0529	1.0391	1.03	System adjustments or voltage support if needed
MONTE RO 60 kV	302 - North Coast	1.0239	1.0564	1.0487	1.0396	1.0325	System adjustments or voltage support if needed
WOHLER 60 kV	302 - North Coast	1.0386	1.0509	1.041	1.0391	1.0398	System adjustments or voltage support if needed
MIRABEL 60 kV	302 - North Coast	1.0377	1.053	1.045	1.042	1.04	System adjustments or voltage support if needed
MOLINO 60 kV	302 - North Coast	1.0203	1.0585	1.0436	1.0345	1.0298	System adjustments or voltage support if needed
GYSRVLL 60 kV	302 - North Coast	1.023	1.05	1.0354	1.0278	1.0315	System adjustments or voltage support if needed
FULTON 60 kV	302 - North Coast	1.0504	1.0489	1.0433	1.0436	1.0492	System adjustments or voltage support if needed
LAGUNA 60 kV	302 - North Coast	1.0138	1.0606	1.034	1.0269	1.0254	System adjustments or voltage support if needed
COTATI 60 kV	302 - North Coast	1.0072	1.0613	1.0333	1.0253	1.0233	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
SNMALDFL 60 kV	302 - North Coast	1.0084	1.0618	1.0341	1.0262	1.0241	System adjustments or voltage support if needed
SLYCREEK 115 kV	303 - North Valley	1.0472	1.0558	1.0542	1.057	1.0501	System adjustments or voltage support if needed
OWID 115 kV	303 - North Valley	1.0432	1.0531	1.0512	1.0549	1.0465	System adjustments or voltage support if needed
FORBSTWN 115 kV	303 - North Valley	1.0438	1.0531	1.0513	1.0548	1.047	System adjustments or voltage support if needed
WYANDTTE 115 kV	303 - North Valley	1.0388	1.0582	1.0559	1.0585	1.0453	System adjustments or voltage support if needed
PALERMO 115 kV	303 - North Valley	1.0434	1.0571	1.0544	1.059	1.0482	System adjustments or voltage support if needed
HONCUT 115 kV	303 - North Valley	1.036	1.0592	1.058	1.0582	1.043	System adjustments or voltage support if needed
NORD 1 115 kV	303 - North Valley	1.0231	1.0568	1.0526	1.0419	1.0311	System adjustments or voltage support if needed
SYCAMORE 115 kV	303 - North Valley	1.0226	1.0562	1.0524	1.0418	1.0305	System adjustments or voltage support if needed
NOTRDAME 115 kV	303 - North Valley	1.0271	1.054	1.0506	1.0422	1.033	System adjustments or voltage support if needed
BUTTE 115 kV	303 - North Valley	1.0282	1.0534	1.0502	1.0424	1.0336	System adjustments or voltage support if needed
WHITMORE 60 kV	303 - North Valley	1.0606	1.0796	1.0901	1.0738	1.0792	System adjustments or voltage support if needed
CEDR CRK 60 kV	303 - North Valley	1.0684	1.0914	1.1041	1.0856	1.0894	System adjustments or voltage support if needed
KILARC 60 kV	303 - North Valley	1.0691	1.0896	1.1006	1.0836	1.0887	System adjustments or voltage support if needed
RED BLFF 60 kV	303 - North Valley	1.011	1.0508	1.0451	1.0377	1.0213	System adjustments or voltage support if needed
DIRYVLE 60 kV	303 - North Valley	1.0002	1.0549	1.049	1.0356	1.0177	System adjustments or voltage support if needed
LPSPi 60 kV	303 - North Valley	0.9982	1.0562	1.0114	1.0043	1.0317	System adjustments or voltage support if needed
GERBER 60 kV	303 - North Valley	0.9916	1.0629	1.0233	1.0063	1.0295	System adjustments or voltage support if needed
VINA 60 kV	303 - North Valley	0.9866	1.0566	1.051	1.0334	1.0085	System adjustments or voltage support if needed
CORNING 60 kV	303 - North Valley	1.0367	1.0467	1.0588	1.0419	1.0366	System adjustments or voltage support if needed
CHALLNGE 60 kV	303 - North Valley	1.0334	1.0585	1.0499	1.0602	1.0394	System adjustments or voltage support if needed
DRHM JCB 60 kV	303 - North Valley	1.0349	1.0493	1.0504	1.0441	1.0443	System adjustments or voltage support if needed
ESQUON 60 kV	303 - North Valley	1.034	1.0501	1.0513	1.044	1.0443	System adjustments or voltage support if needed
ORLAND B 60 kV	303 - North Valley	1.0342	1.0493	1.0551	1.0474	1.0399	System adjustments or voltage support if needed
ELKCREEK 60 kV	303 - North Valley	1.0346	1.0679	1.084	1.062	1.0422	System adjustments or voltage support if needed
WILLOWS 60 kV	303 - North Valley	1.0233	1.0493	1.0648	1.0471	1.0321	System adjustments or voltage support if needed
CAPAY 60 kV	303 - North Valley	1.0366	1.0403	1.0523	1.0466	1.0403	System adjustments or voltage support if needed
HAMILTON 60 kV	303 - North Valley	1.0231	1.0441	1.0609	1.053	1.0369	System adjustments or voltage support if needed
HEADGATE 60 kV	303 - North Valley	1.0311	1.0407	1.056	1.0454	1.0398	System adjustments or voltage support if needed
ANITA 60 kV	303 - North Valley	1.0079	1.0427	1.0721	1.0404	1.0377	System adjustments or voltage support if needed
JACINTO 60 kV	303 - North Valley	1.0028	1.0348	1.0634	1.0516	1.0264	System adjustments or voltage support if needed
MOBILCHE 115 kV	304 - Sacramento	1.0221	1.0514	1.056	1.0393	1.0397	System adjustments or voltage support if needed
WOODLANDBIOM 115 kV	304 - Sacramento	1.0239	1.0516	1.0558	1.0394	1.0403	System adjustments or voltage support if needed
KNIGHTLD 115 kV	304 - Sacramento	1.0277	1.0507	1.0552	1.0415	1.0441	System adjustments or voltage support if needed
KNIGHT2 115 kV	304 - Sacramento	1.0269	1.0499	1.055	1.0413	1.0433	System adjustments or voltage support if needed
KNIGHT1 115 kV	304 - Sacramento	1.0277	1.0507	1.0551	1.0415	1.0441	System adjustments or voltage support if needed



			Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
WOODLD	115 kV	304 - Sacramento	1.022	1.0514	1.056	1.0393	1.0393	System adjustments or voltage support if needed
ZAMORA1	115 kV	304 - Sacramento	1.0274	1.051	1.0554	1.0415	1.0439	System adjustments or voltage support if needed
ZAMORA	115 kV	304 - Sacramento	1.0233	1.0506	1.0557	1.041	1.0407	System adjustments or voltage support if needed
ZAMORA2	115 kV	304 - Sacramento	1.0234	1.0505	1.0557	1.041	1.0408	System adjustments or voltage support if needed
POST	115 kV	304 - Sacramento	1.0436	1.0498	1.0543	1.0382	1.0507	System adjustments or voltage support if needed
BRIGHTN	115 kV	304 - Sacramento	1.0514	1.0437	1.0492	1.0402	1.0607	System adjustments or voltage support if needed
W.SCRMNO	115 kV	304 - Sacramento	1.0456	1.0495	1.0544	1.0384	1.0518	System adjustments or voltage support if needed
DEEPWATR	115 kV	304 - Sacramento	1.0429	1.0486	1.0548	1.0384	1.0503	System adjustments or voltage support if needed
BRKR SLG	115 kV	304 - Sacramento	1.0331	1.0503	1.054	1.0371	1.0488	System adjustments or voltage support if needed
DAVIS	115 kV	304 - Sacramento	1.0268	1.0512	1.0544	1.036	1.0425	System adjustments or voltage support if needed
GRAND IS	115 kV	304 - Sacramento	1.0417	1.049	1.0546	1.0398	1.0559	System adjustments or voltage support if needed
CAMPUS	115 kV	304 - Sacramento	1.0261	1.0511	1.0537	1.0353	1.0421	System adjustments or voltage support if needed
Q653F	115 kV	304 - Sacramento	1.0258	1.0509	1.0544	1.0365	1.0416	System adjustments or voltage support if needed
RICE	60 kV	304 - Sacramento	0.9945	1.0784	1.0668	1.042	1.026	System adjustments or voltage support if needed
CLSA CRS	60 kV	304 - Sacramento	1.0101	1.0731	1.0623	1.0431	1.0337	System adjustments or voltage support if needed
DELEVAN	60 kV	304 - Sacramento	1.0207	1.069	1.0589	1.0438	1.0388	System adjustments or voltage support if needed
MAXWELL	60 kV	304 - Sacramento	1.0206	1.069	1.0588	1.0437	1.0387	System adjustments or voltage support if needed
HARINTON	60 kV	304 - Sacramento	1.0124	1.0562	1.0478	1.0327	1.0249	System adjustments or voltage support if needed
ARBUCKLE	60 kV	304 - Sacramento	1.0177	1.0592	1.0485	1.0357	1.0284	System adjustments or voltage support if needed
DRAKE	60 kV	304 - Sacramento	1.0102	1.0555	1.048	1.0314	1.0239	System adjustments or voltage support if needed
WILLIAMS	60 kV	304 - Sacramento	1.0384	1.0553	1.0519	1.0458	1.0405	System adjustments or voltage support if needed
DUNNIGAN	60 kV	304 - Sacramento	0.9999	1.0537	1.0519	1.0271	1.0202	System adjustments or voltage support if needed
WILSONAV	60 kV	304 - Sacramento	1.008	1.0731	1.0623	1.0432	1.0327	System adjustments or voltage support if needed
COLUSA	60 kV	304 - Sacramento	1.0079	1.0659	1.0672	1.0418	1.0327	System adjustments or voltage support if needed
MERIDIAN	60 kV	304 - Sacramento	1.0224	1.0689	1.0688	1.042	1.0363	System adjustments or voltage support if needed
WESCOT1	60 kV	304 - Sacramento	1.0313	1.0628	1.0627	1.0433	1.0395	System adjustments or voltage support if needed
WESCOT2	60 kV	304 - Sacramento	1.0424	1.0541	1.05	1.0468	1.0421	System adjustments or voltage support if needed
WINTERS	60 kV	304 - Sacramento	0.9936	1.0517	1.044	1.029	1.0177	System adjustments or voltage support if needed
PLAINFLD	60 kV	304 - Sacramento	0.9089	1.0727	1.0724	1.0139	0.985	System adjustments or voltage support if needed
PEASE	115 kV	305 - Sierra	0.9928	1.0547	1.048	1.0349	1.0215	System adjustments or voltage support if needed
E.MRYSVE	115 kV	305 - Sierra	1.0346	1.0562	1.069	1.0617	1.0467	System adjustments or voltage support if needed
OLIVHRST	115 kV	305 - Sierra	1.0063	1.0527	1.0517	1.0383	1.0314	System adjustments or voltage support if needed
BOGUE	115 kV	305 - Sierra	1.0233	1.0661	1.063	1.0545	1.0337	System adjustments or voltage support if needed
GLEAF 1	115 kV	305 - Sierra	1.0306	1.0571	1.0584	1.05	1.0426	System adjustments or voltage support if needed
E.NICOLS	115 kV	305 - Sierra	1.0341	1.0514	1.0571	1.0488	1.0482	System adjustments or voltage support if needed
DRUM	115 kV	305 - Sierra	1.0522	1.0576	1.0476	1.057	1.061	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
DTCH FL1 115 kV	305 - Sierra	1.0456	1.0564	1.0489	1.0539	1.0549	System adjustments or voltage support if needed
CHCGO PK 115 kV	305 - Sierra	1.0429	1.0573	1.0506	1.0536	1.052	System adjustments or voltage support if needed
BRUNSWCK 115 kV	305 - Sierra	1.033	1.0567	1.0552	1.0514	1.0484	System adjustments or voltage support if needed
BRNSWALT 115 kV	305 - Sierra	1.0404	1.0561	1.0539	1.0524	1.0535	System adjustments or voltage support if needed
PLACER 115 kV	305 - Sierra	1.0265	1.0558	1.0548	1.0459	1.037	System adjustments or voltage support if needed
HORSESHE 115 kV	305 - Sierra	1.0356	1.0545	1.048	1.0426	1.0411	System adjustments or voltage support if needed
HIGGINS 115 kV	305 - Sierra	1.0289	1.0579	1.0552	1.0493	1.0408	System adjustments or voltage support if needed
NEWCSTLE 115 kV	305 - Sierra	1.0313	1.0556	1.0525	1.0453	1.0395	System adjustments or voltage support if needed
FLINT1 115 kV	305 - Sierra	1.028	1.0557	1.0541	1.0457	1.0378	System adjustments or voltage support if needed
FLINT 115 kV	305 - Sierra	1.0279	1.0552	1.0538	1.0455	1.0376	System adjustments or voltage support if needed
BELL PGE 115 kV	305 - Sierra	1.0259	1.0567	1.0553	1.0466	1.0372	System adjustments or voltage support if needed
FLINT2 115 kV	305 - Sierra	1.028	1.0551	1.0538	1.0455	1.0377	System adjustments or voltage support if needed
BRNSWCKP 115 kV	305 - Sierra	1.0381	1.0557	1.0535	1.0519	1.0517	System adjustments or voltage support if needed
ELDORAD 115 kV	305 - Sierra	1.0327	1.0559	1.0522	1.0451	1.0382	System adjustments or voltage support if needed
APPLE HL 115 kV	305 - Sierra	1.0311	1.0555	1.0516	1.0439	1.0371	System adjustments or voltage support if needed
PLCRVLB2 115 kV	305 - Sierra	1.0306	1.054	1.0499	1.0429	1.0359	System adjustments or voltage support if needed
PLCRVLT1 115 kV	305 - Sierra	1.0337	1.0532	1.0485	1.0429	1.0381	System adjustments or voltage support if needed
PLCRVLB3 115 kV	305 - Sierra	1.0305	1.054	1.05	1.0429	1.0359	System adjustments or voltage support if needed
PLCRVLT2 115 kV	305 - Sierra	1.0307	1.0539	1.0499	1.043	1.036	System adjustments or voltage support if needed
DMND SPR 115 kV	305 - Sierra	1.0318	1.0533	1.049	1.0426	1.0367	System adjustments or voltage support if needed
DIMOND_2 115 kV	305 - Sierra	1.0319	1.0533	1.0489	1.0426	1.0367	System adjustments or voltage support if needed
MIZOU_T2 115 kV	305 - Sierra	1.0313	1.0536	1.0494	1.0428	1.0364	System adjustments or voltage support if needed
MIZOU_T1 115 kV	305 - Sierra	1.0341	1.0528	1.0481	1.0426	1.0384	System adjustments or voltage support if needed
SHPRING1 115 kV	305 - Sierra	1.0348	1.0522	1.0472	1.0421	1.0389	System adjustments or voltage support if needed
CLRKSVLE 115 kV	305 - Sierra	1.0363	1.0535	1.0464	1.0392	1.042	System adjustments or voltage support if needed
SHPRING 115 kV	305 - Sierra	1.0346	1.0523	1.0473	1.042	1.0388	System adjustments or voltage support if needed
DIMOND_1 115 kV	305 - Sierra	1.0345	1.0525	1.0476	1.0423	1.0387	System adjustments or voltage support if needed
SPICAMIN 115 kV	305 - Sierra	1.0312	1.0554	1.0516	1.044	1.0371	System adjustments or voltage support if needed
LINCLN 115 kV	305 - Sierra	1.0226	1.0506	1.0532	1.0456	1.0364	System adjustments or voltage support if needed
SPI-LINC 115 kV	305 - Sierra	1.0236	1.0504	1.0531	1.0455	1.0373	System adjustments or voltage support if needed
RBROCKLIN 115 kV	305 - Sierra	1.0173	1.0518	1.0523	1.0465	1.0305	System adjustments or voltage support if needed
PLSNT GR 115 kV	305 - Sierra	1.015	1.0521	1.0522	1.0465	1.0285	System adjustments or voltage support if needed
DTCH FL2 115 kV	305 - Sierra	1.0495	1.0571	1.0495	1.0559	1.0593	System adjustments or voltage support if needed
DOBBINS 60 kV	305 - Sierra	1.0381	1.0579	1.0485	1.0603	1.0428	System adjustments or voltage support if needed
ROCKLIN 60 kV	305 - Sierra	1.0172	1.0846	1.0785	1.0728	1.0361	System adjustments or voltage support if needed
TAYLOR 60 kV	305 - Sierra	1.018	1.0844	1.0781	1.0728	1.0365	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
DEL MAR 60 kV	305 - Sierra	1.0057	1.091	1.0814	1.0746	1.0269	System adjustments or voltage support if needed
SIERRAPI 60 kV	305 - Sierra	1.0057	1.091	1.0814	1.0746	1.0269	System adjustments or voltage support if needed
COLGATE 60 kV	305 - Sierra	1.0385	1.0577	1.0483	1.0603	1.0431	System adjustments or voltage support if needed
CHLLNGEA 60 kV	305 - Sierra	1.0381	1.0579	1.0485	1.0603	1.0428	System adjustments or voltage support if needed
NARRWS 2 60 kV	305 - Sierra	1.0211	1.0501	1.0365	1.041	1.0257	System adjustments or voltage support if needed
CLMBA HL 60 kV	305 - Sierra	1.0353	1.0605	1.0507	1.0609	1.0415	System adjustments or voltage support if needed
PIKE CTY 60 kV	305 - Sierra	1.0325	1.0629	1.0531	1.0623	1.0398	System adjustments or voltage support if needed
ALLEGHNY 60 kV	305 - Sierra	1.03	1.064	1.054	1.0626	1.038	System adjustments or voltage support if needed
GRSS VLY 60 kV	305 - Sierra	1.0222	1.0609	1.0547	1.0578	1.033	System adjustments or voltage support if needed
ENVRO_HY 60 kV	305 - Sierra	1.0054	1.0619	1.0454	1.0288	1.0097	System adjustments or voltage support if needed
FORST HL 60 kV	305 - Sierra	1.0009	1.0602	1.0437	1.0271	1.0079	System adjustments or voltage support if needed
OXBOW 60 kV	305 - Sierra	1.0065	1.0622	1.0458	1.0292	1.0102	System adjustments or voltage support if needed
ATLANTI 60 kV	305 - Sierra	1.0203	1.0844	1.0782	1.0737	1.0381	System adjustments or voltage support if needed
SILVERDO 115 kV	306 - North Bay	1.0019	1.0646	1.0532	1.0428	1.0194	System adjustments or voltage support if needed
MONTCLLO 115 kV	306 - North Bay	1.0018	1.0643	1.0545	1.0437	1.0196	System adjustments or voltage support if needed
MNTCLOPH 115 kV	306 - North Bay	1.002	1.0645	1.0548	1.044	1.0198	System adjustments or voltage support if needed
PITSBURG 115 kV	308 - Diablo	1.0279	1.0628	1.0646	1.0552	1.0343	System adjustments or voltage support if needed
KIRKER 115 kV	308 - Diablo	1.0247	1.0639	1.0652	1.0547	1.0321	System adjustments or voltage support if needed
UNITEDSP 115 kV	308 - Diablo	1.0252	1.0639	1.0652	1.0549	1.0323	System adjustments or voltage support if needed
PRAXAIR 115 kV	308 - Diablo	1.0246	1.0601	1.0638	1.0521	1.0333	System adjustments or voltage support if needed
CLMBIAPV 115 kV	308 - Diablo	1.0251	1.061	1.0648	1.0526	1.0343	System adjustments or voltage support if needed
CLMBIAHS 115 kV	308 - Diablo	1.0251	1.0609	1.0647	1.0526	1.0342	System adjustments or voltage support if needed
CLAYTN 115 kV	308 - Diablo	1.021	1.0642	1.0643	1.0535	1.0285	System adjustments or voltage support if needed
MEDW LNE 115 kV	308 - Diablo	1.0137	1.065	1.0636	1.051	1.0224	System adjustments or voltage support if needed
LAKEWD-C 115 kV	308 - Diablo	1.0155	1.0645	1.0624	1.0497	1.0239	System adjustments or voltage support if needed
LAKEWD-M 115 kV	308 - Diablo	1.0155	1.0643	1.0623	1.0493	1.0239	System adjustments or voltage support if needed
WALNUTCR 115 kV	308 - Diablo	1.015	1.0646	1.0627	1.0502	1.0234	System adjustments or voltage support if needed
LMEC 115 kV	308 - Diablo	1.0281	1.0625	1.0643	1.0547	1.034	System adjustments or voltage support if needed
MARTNZ D 115 kV	308 - Diablo	1.0291	1.0523	1.0535	1.046	1.0343	System adjustments or voltage support if needed
MARTNZ E 115 kV	308 - Diablo	1.0291	1.0523	1.0535	1.0463	1.0342	System adjustments or voltage support if needed
BOLLMAN2 115 kV	308 - Diablo	1.0289	1.0557	1.057	1.0491	1.0344	System adjustments or voltage support if needed
W.P.BART 115 kV	308 - Diablo	1.0262	1.0618	1.0599	1.0504	1.0328	System adjustments or voltage support if needed
BOLLMAN 115 kV	308 - Diablo	1.0273	1.0563	1.0564	1.048	1.0331	System adjustments or voltage support if needed
ALHAMBRA 115 kV	308 - Diablo	1.0284	1.0505	1.0529	1.045	1.0338	System adjustments or voltage support if needed
BOLLMAN1 115 kV	308 - Diablo	1.0276	1.0568	1.0567	1.0483	1.0334	System adjustments or voltage support if needed
IMHOFF 115 kV	308 - Diablo	1.0291	1.0543	1.0555	1.0479	1.0344	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
EGBERT S2 230 kV	309 - San Francisco	N/A	1.052	1.0319	1.0124	N/A	System adjustments or voltage support if needed
S.L.A.C. 230 kV	310 - Peninsula	1.0309	1.0707	1.0476	1.0166	1.0364	System adjustments or voltage support if needed
JEDAMCX1 230 kV	310 - Peninsula	N/A	1.0705	1.0432	1.0158	N/A	System adjustments or voltage support if needed
JEDAMCX2 230 kV	310 - Peninsula	N/A	1.0705	1.0432	1.0158	N/A	System adjustments or voltage support if needed
JEFFERSN 230 kV	310 - Peninsula	1.0316	1.0717	1.0426	1.0134	1.037	System adjustments or voltage support if needed
TRAN230A 230 kV	310 - Peninsula	1.032	1.0685	1.0424	1.0164	1.0371	System adjustments or voltage support if needed
TRAN230B 230 kV	310 - Peninsula	1.0302	1.0642	1.0401	1.0164	1.035	System adjustments or voltage support if needed
CAROLD1 60 kV	310 - Peninsula	1.0319	1.0589	1.0422	1.0209	1.0384	System adjustments or voltage support if needed
CAROLD2 60 kV	310 - Peninsula	1.024	1.0689	1.043	1.0132	1.0309	System adjustments or voltage support if needed
CAROLNDS 60 kV	310 - Peninsula	1.0319	1.0589	1.0423	1.0209	1.0384	System adjustments or voltage support if needed
HILLSDLE 60 kV	310 - Peninsula	1.0306	1.0528	1.0403	1.0244	1.0355	System adjustments or voltage support if needed
HLLSDLJT 60 kV	310 - Peninsula	1.0328	1.0584	1.0418	1.0212	1.0387	System adjustments or voltage support if needed
CRYSTLSG 60 kV	310 - Peninsula	1.0239	1.0689	1.043	1.0132	1.0309	System adjustments or voltage support if needed
RALSTON 60 kV	310 - Peninsula	1.0242	1.0704	1.0434	1.0135	1.0312	System adjustments or voltage support if needed
HLF MNBY 60 kV	310 - Peninsula	1.0444	1.0595	1.0436	1.018	1.0526	System adjustments or voltage support if needed
LAS PLGS 60 kV	310 - Peninsula	1.0168	1.0708	1.0445	1.0112	1.0269	System adjustments or voltage support if needed
EMRLD LE 60 kV	310 - Peninsula	1.0253	1.0723	1.0401	1.0115	1.0313	System adjustments or voltage support if needed
WATRSHEd 60 kV	310 - Peninsula	1.0308	1.0668	1.0427	1.0178	1.0366	System adjustments or voltage support if needed
JEFRSN_D 60 kV	310 - Peninsula	1.0292	1.0735	1.0435	1.0153	1.0349	System adjustments or voltage support if needed
STANFORD 60 kV	310 - Peninsula	0.98	1.061	0.9971	0.9653	0.9879	System adjustments or voltage support if needed
WOODSIDE 60 kV	310 - Peninsula	1.0183	1.0708	1.0445	1.0117	1.028	System adjustments or voltage support if needed
S.L.A.C. 60 kV	310 - Peninsula	0.9843	1.0622	1.0013	0.9697	0.9921	System adjustments or voltage support if needed
TRAN-60 60 kV	310 - Peninsula	1.032	1.059	1.0423	1.021	1.0384	System adjustments or voltage support if needed
LSPLGSJT 60 kV	310 - Peninsula	1.0039	1.0672	1.0198	0.9896	1.0108	System adjustments or voltage support if needed
OX_MTN60 60 kV	310 - Peninsula	1.0443	1.0591	1.043	1.0187	1.0511	System adjustments or voltage support if needed
HILDAL49 60 kV	310 - Peninsula	1.0328	1.0586	1.0418	1.0212	1.0387	System adjustments or voltage support if needed
RLSTN35 60 kV	310 - Peninsula	1.0315	1.0641	1.0424	1.019	1.0373	System adjustments or voltage support if needed
RLSTN45 60 kV	310 - Peninsula	1.0243	1.0704	1.0434	1.0135	1.0313	System adjustments or voltage support if needed
HILDAL47 60 kV	310 - Peninsula	1.0242	1.0699	1.0433	1.0134	1.0312	System adjustments or voltage support if needed
JEFRSN_E 60 kV	310 - Peninsula	1.0294	1.0735	1.0437	1.0155	1.0351	System adjustments or voltage support if needed
MELNS JA 115 kV	311 - Stockton	1.0168	1.0606	1.0652	1.0543	1.0233	System adjustments or voltage support if needed
FROGTOWN 115 kV	311 - Stockton	1.0176	1.0629	1.0666	1.0547	1.0254	System adjustments or voltage support if needed
CATARACT 115 kV	311 - Stockton	1.0244	1.0621	1.0634	1.056	1.0303	System adjustments or voltage support if needed
STANISLS 115 kV	311 - Stockton	1.0261	1.0629	1.0635	1.0564	1.0319	System adjustments or voltage support if needed
LAMMERS 115 kV	311 - Stockton	1.0141	1.0533	1.0489	1.0557	1.0196	System adjustments or voltage support if needed
OI GLASS 115 kV	311 - Stockton	1.0134	1.0533	1.0487	1.0554	1.0192	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
SAFEWAY 115 kV	311 - Stockton	1.0209	1.0537	1.0486	1.0569	1.0243	System adjustments or voltage support if needed
TESLA 115 kV	311 - Stockton	1.0356	1.0544	1.0493	1.0595	1.0351	System adjustments or voltage support if needed
ELLS GTY 115 kV	311 - Stockton	1.0323	1.0539	1.0492	1.0589	1.0327	System adjustments or voltage support if needed
AEC_300 115 kV	311 - Stockton	1.0267	1.054	1.0485	1.0578	1.0284	System adjustments or voltage support if needed
SCHULTE 115 kV	311 - Stockton	1.017	1.0533	1.0487	1.0563	1.0215	System adjustments or voltage support if needed
GWFRACY 115 kV	311 - Stockton	1.017	1.0533	1.0487	1.0563	1.0215	System adjustments or voltage support if needed
CAMANCHE 115 kV	311 - Stockton	1.0454	1.0474	1.052	1.0418	1.0435	System adjustments or voltage support if needed
TH.E.DV. 115 kV	311 - Stockton	1.0346	1.0552	1.0483	1.0578	1.0342	System adjustments or voltage support if needed
GRANITE 115 kV	311 - Stockton	1.0192	1.0543	1.0385	1.0474	1.0213	System adjustments or voltage support if needed
RIPONCOGENJT 115 kV	311 - Stockton	1.0324	1.0562	1.0461	1.0539	1.0321	System adjustments or voltage support if needed
TESLAMTR 115 kV	311 - Stockton	1.0314	1.0563	1.045	1.0512	1.0311	System adjustments or voltage support if needed
RIPONCOGEN 115 kV	311 - Stockton	1.035	1.0563	1.0464	1.0542	1.0347	System adjustments or voltage support if needed
MDWYWWD 115 kV	311 - Stockton	1.0361	1.0538	1.049	1.0584	1.036	System adjustments or voltage support if needed
TEICHERT 115 kV	311 - Stockton	1.0189	1.0544	1.0381	1.0471	1.021	System adjustments or voltage support if needed
WEST PNT 60 kV	311 - Stockton	1.0435	1.0646	1.0698	1.0581	1.0484	System adjustments or voltage support if needed
ELECTRAJ 60 kV	311 - Stockton	1.0412	1.0521	1.057	1.0478	1.0428	System adjustments or voltage support if needed
PNE GRVE 60 kV	311 - Stockton	1.034	1.0592	1.0658	1.0519	1.0398	System adjustments or voltage support if needed
VLLY SPS 60 kV	311 - Stockton	1.0507	1.0419	1.0518	1.0425	1.0491	System adjustments or voltage support if needed
N BRANCH 60 kV	311 - Stockton	1.0489	1.0447	1.0545	1.0424	1.049	System adjustments or voltage support if needed
CAL CMNT 60 kV	311 - Stockton	1.0457	1.0484	1.0577	1.042	1.0477	System adjustments or voltage support if needed
MARTELL 60 kV	311 - Stockton	1.0342	1.0479	1.0554	1.0364	1.0375	System adjustments or voltage support if needed
OLETA 60 kV	311 - Stockton	1.0168	1.0528	1.062	1.0347	1.0238	System adjustments or voltage support if needed
AM FORST 60 kV	311 - Stockton	1.0335	1.047	1.054	1.0354	1.0367	System adjustments or voltage support if needed
CLAY 60 kV	311 - Stockton	1.0276	1.0538	1.0577	1.0354	1.0347	System adjustments or voltage support if needed
INE PRSN 60 kV	311 - Stockton	1.0184	1.0514	1.0533	1.0286	1.0277	System adjustments or voltage support if needed
MCSP 60 kV	311 - Stockton	1.0187	1.0513	1.0531	1.0287	1.0278	System adjustments or voltage support if needed
BUENAVISTA 60 kV	311 - Stockton	1.0302	1.053	1.0578	1.0365	1.0365	System adjustments or voltage support if needed
PARDEE A 60 kV	311 - Stockton	1.0558	1.047	1.0569	1.0476	1.0541	System adjustments or voltage support if needed
VSLDSW87 60 kV	311 - Stockton	1.0545	1.0458	1.0556	1.0463	1.0529	System adjustments or voltage support if needed
PRDESWS 60 kV	311 - Stockton	1.0373	1.0509	1.0579	1.0392	1.0414	System adjustments or voltage support if needed
N.HOGAN 60 kV	311 - Stockton	1.0378	1.0469	1.0597	1.0407	1.0446	System adjustments or voltage support if needed
CORRAL 60 kV	311 - Stockton	1.0198	1.0525	1.0698	1.0379	1.0382	System adjustments or voltage support if needed
STAGG 60 kV	311 - Stockton	1.0508	1.0488	1.049	1.047	1.0506	System adjustments or voltage support if needed
HERDLYN 60 kV	311 - Stockton	1.0523	1.0538	1.0534	1.06	1.0513	System adjustments or voltage support if needed
B.BTHNY- 60 kV	311 - Stockton	1.051	1.0526	1.0521	1.0583	1.0504	System adjustments or voltage support if needed
ALTA-CGE 60 kV	311 - Stockton	1.0511	1.0527	1.0522	1.0583	1.051	System adjustments or voltage support if needed



			Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
WEST SDE	60 kV	311 - Stockton	1.0506	1.0528	1.0518	1.0584	1.0496	System adjustments or voltage support if needed
DONNELLS	115 kV	312 - Stanislaus	1.041	1.0694	1.0762	1.0587	1.0428	System adjustments or voltage support if needed
BEARDSLY	115 kV	312 - Stanislaus	1.0383	1.07	1.0768	1.0592	1.0405	System adjustments or voltage support if needed
SPRNG GP	115 kV	312 - Stanislaus	1.0363	1.0692	1.0759	1.0585	1.0387	System adjustments or voltage support if needed
SANDBAR	115 kV	312 - Stanislaus	1.0382	1.0703	1.0768	1.0599	1.0406	System adjustments or voltage support if needed
MI-WUK	115 kV	312 - Stanislaus	1.0225	1.0674	1.0748	1.0556	1.0268	System adjustments or voltage support if needed
CURTISS	115 kV	312 - Stanislaus	1.0146	1.0653	1.0729	1.053	1.0201	System adjustments or voltage support if needed
SPISONORA	115 kV	312 - Stanislaus	1.015	1.0653	1.0729	1.0531	1.0204	System adjustments or voltage support if needed
R.TRACK	115 kV	312 - Stanislaus	1.021	1.0631	1.0701	1.0545	1.0261	System adjustments or voltage support if needed
CH.STN	115 kV	312 - Stanislaus	1.0175	1.0596	1.0677	1.0509	1.0215	System adjustments or voltage support if needed
PEORIA	115 kV	312 - Stanislaus	1.0174	1.0611	1.0682	1.0523	1.0217	System adjustments or voltage support if needed
MELONES	115 kV	312 - Stanislaus	1.0222	1.0622	1.0688	1.0544	1.0267	System adjustments or voltage support if needed
TULLOCH	115 kV	312 - Stanislaus	1.0316	1.0588	1.0642	1.0541	1.031	System adjustments or voltage support if needed
MELNS JB	115 kV	312 - Stanislaus	1.0161	1.058	1.0625	1.0531	1.0221	System adjustments or voltage support if needed
RVRBANK	115 kV	312 - Stanislaus	1.0388	1.0499	1.0572	1.0423	1.0407	System adjustments or voltage support if needed
SALADO	60 kV	312 - Stanislaus	1.0541	1.0554	1.041	1.0487	1.0532	System adjustments or voltage support if needed
PATTERSN	60 kV	312 - Stanislaus	1.0469	1.0544	1.0438	1.0472	1.05	System adjustments or voltage support if needed
STNSLSRP	60 kV	312 - Stanislaus	1.0501	1.051	1.0396	1.041	1.0541	System adjustments or voltage support if needed
CROWCREEK SS	60 kV	312 - Stanislaus	1.0485	1.0505	1.0399	1.0389	1.0547	System adjustments or voltage support if needed
FRONTIERPV	60 kV	312 - Stanislaus	1.0487	1.0514	1.041	1.0389	1.0559	System adjustments or voltage support if needed
NEWMAN	60 kV	312 - Stanislaus	1.0247	1.0567	1.0547	1.0395	1.0432	System adjustments or voltage support if needed
CRWS LDG	60 kV	312 - Stanislaus	1.0382	1.0544	1.0478	1.0449	1.0468	System adjustments or voltage support if needed
GUSTINE	60 kV	312 - Stanislaus	1.0123	1.0568	1.0597	1.0358	1.0376	System adjustments or voltage support if needed
Q1350	60 kV	312 - Stanislaus	N/A	1.05	1.0394	1.0384	N/A	System adjustments or voltage support if needed
CHWCHLLA	115 kV	313 - Yosemite	1.0204	1.0532	1.0465	1.0249	1.0209	System adjustments or voltage support if needed
ATWATER	115 kV	313 - Yosemite	1.0227	1.0335	1.0614	1.0276	1.028	System adjustments or voltage support if needed
EXCHEQUR	115 kV	313 - Yosemite	1.0503	1.0733	1.0799	1.0444	1.044	System adjustments or voltage support if needed
SHARON	115 kV	313 - Yosemite	1.0199	1.0568	1.0469	1.0259	1.0213	System adjustments or voltage support if needed
OAKHURST	115 kV	313 - Yosemite	1.0022	1.0809	1.0778	1.0317	1.0208	System adjustments or voltage support if needed
CORSGOLD	115 kV	313 - Yosemite	1.0086	1.0784	1.0728	1.0326	1.0241	System adjustments or voltage support if needed
LIVNGSTN	115 kV	313 - Yosemite	1.0182	1.0275	1.0615	1.026	1.0248	System adjustments or voltage support if needed
GALLO	115 kV	313 - Yosemite	1.0174	1.0245	1.0606	1.025	1.0242	System adjustments or voltage support if needed
WILSONPGAE	115 kV	313 - Yosemite	N/A	N/A	1.0555	1.0284	N/A	System adjustments or voltage support if needed
EL CAPTN	115 kV	313 - Yosemite	1.0247	1.0345	1.0606	1.0279	1.0291	System adjustments or voltage support if needed
CRESSEY	115 kV	313 - Yosemite	1.0194	1.0321	1.0622	1.0266	1.0264	System adjustments or voltage support if needed
MERCED	115 kV	313 - Yosemite	1.0287	1.0358	1.059	1.0271	1.0319	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
CHENY 115 kV	313 - Yosemite	1.0565	1.0519	1.047	1.038	1.0473	System adjustments or voltage support if needed
DAIRYLND 115 kV	313 - Yosemite	1.0205	1.0522	1.0521	1.021	1.0224	System adjustments or voltage support if needed
PANOCH1 115 kV	313 - Yosemite	1.0573	1.0514	1.0464	1.0379	1.0459	System adjustments or voltage support if needed
PANOCH2 115 kV	313 - Yosemite	1.0573	1.0514	1.0464	1.0379	1.0459	System adjustments or voltage support if needed
EL NIDO 115 kV	313 - Yosemite	1.0305	1.035	1.0556	1.0304	1.0333	System adjustments or voltage support if needed
CALPEAKPNCH 115 kV	313 - Yosemite	1.0573	1.0514	1.0464	1.0379	1.0459	System adjustments or voltage support if needed
STARWDPNCH 115 kV	313 - Yosemite	1.0573	1.0514	1.0464	1.0379	1.0459	System adjustments or voltage support if needed
CHWCHLASLR 115 kV	313 - Yosemite	1.0222	1.0501	1.0523	1.022	1.0228	System adjustments or voltage support if needed
WILSONSTCOM 115 kV	313 - Yosemite	1.035	1.0346	1.0555	1.0284	1.035	System adjustments or voltage support if needed
WRIGHT T 70 kV	313 - Yosemite	1.0455	1.0581	1.0338	1.0547	1.0402	System adjustments or voltage support if needed
ARBURU T 70 kV	313 - Yosemite	1.0383	1.0616	1.0372	1.0544	1.0368	System adjustments or voltage support if needed
BONITA T 70 kV	313 - Yosemite	1.0271	1.0552	1.0532	1.0394	1.0444	System adjustments or voltage support if needed
ELPECO T 70 kV	313 - Yosemite	1.0348	1.0494	1.0448	1.0422	1.0431	System adjustments or voltage support if needed
WESIX 70 kV	313 - Yosemite	0.9777	1.0207	1.0437	1.0312	0.9965	System adjustments or voltage support if needed
WESTLAND 70 kV	313 - Yosemite	0.9794	1.0213	1.0453	1.0329	0.9982	System adjustments or voltage support if needed
ORO LOMA 70 kV	313 - Yosemite	1.0346	1.0599	1.0466	1.0359	1.0376	System adjustments or voltage support if needed
LIVNGSTN 70 kV	313 - Yosemite	1.0323	1.0732	1.0521	1.0571	1.0426	System adjustments or voltage support if needed
CANAL 70 kV	313 - Yosemite	1.0285	1.0651	1.0431	1.0548	1.0317	System adjustments or voltage support if needed
CHEVPIPE 70 kV	313 - Yosemite	1.0468	1.0561	1.0328	1.0547	1.0408	System adjustments or voltage support if needed
SNTA NLA 70 kV	313 - Yosemite	1.0464	1.0561	1.0329	1.0547	1.0406	System adjustments or voltage support if needed
LVNGSTNT 70 kV	313 - Yosemite	1.0308	1.0642	1.042	1.0549	1.0331	System adjustments or voltage support if needed
LOS BANS 70 kV	313 - Yosemite	1.0509	1.0559	1.0318	1.0546	1.0433	System adjustments or voltage support if needed
SNTA RTA 70 kV	313 - Yosemite	1.0252	1.0686	1.0572	1.0354	1.0386	System adjustments or voltage support if needed
DOS PALS 70 kV	313 - Yosemite	1.0283	1.065	1.0531	1.0355	1.0372	System adjustments or voltage support if needed
ORTIGA 70 kV	313 - Yosemite	1.0316	1.064	1.0413	1.0546	1.0344	System adjustments or voltage support if needed
MRCYSPRS 70 kV	313 - Yosemite	1.0352	1.0623	1.0395	1.0544	1.0357	System adjustments or voltage support if needed
ARBURUA 70 kV	313 - Yosemite	1.0339	1.0598	1.0327	1.05	1.0324	System adjustments or voltage support if needed
PCHCOWND 70 kV	313 - Yosemite	1.0497	1.0563	1.0322	1.0546	1.0426	System adjustments or voltage support if needed
CANANDGA 70 kV	313 - Yosemite	1.0374	1.0481	1.0434	1.0422	1.0444	System adjustments or voltage support if needed
BONITA 70 kV	313 - Yosemite	1.0219	1.0585	1.0577	1.0379	1.0442	System adjustments or voltage support if needed
GLASS 70 kV	313 - Yosemite	1.0375	1.048	1.0433	1.0422	1.0444	System adjustments or voltage support if needed
MADERA 70 kV	313 - Yosemite	1.0389	1.0498	1.0449	1.0437	1.0458	System adjustments or voltage support if needed
TRIGO 70 kV	313 - Yosemite	1.0375	1.0486	1.0439	1.0426	1.0446	System adjustments or voltage support if needed
BORDEN 70 kV	313 - Yosemite	1.0436	1.0458	1.0409	1.0427	1.0481	System adjustments or voltage support if needed
MERCYSPRNGSS 70 kV	313 - Yosemite	1.0359	1.0618	1.039	1.0544	1.036	System adjustments or voltage support if needed
NRTHFORK 70 kV	313 - Yosemite	1.0005	1.0516	1.0847	1.0443	1.0348	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
SJNO2 70 kV	313 - Yosemite	1.0025	1.0523	1.0843	1.0445	1.0356	System adjustments or voltage support if needed
SJNO3 70 kV	313 - Yosemite	0.9984	1.0508	1.0851	1.044	1.0339	System adjustments or voltage support if needed
CASSIDY 70 kV	313 - Yosemite	1.0292	1.0474	1.0558	1.0428	1.0427	System adjustments or voltage support if needed
EL PECO 70 kV	313 - Yosemite	1.0323	1.05	1.0455	1.042	1.0416	System adjustments or voltage support if needed
FIREBAGH 70 kV	313 - Yosemite	1.0063	0.9862	1.0437	1.0267	1.0304	System adjustments or voltage support if needed
TOMATAK 70 kV	313 - Yosemite	0.9045	0.9794	1.042	1.0263	0.9029	System adjustments or voltage support if needed
MENDOTA 70 kV	313 - Yosemite	0.9208	0.9465	1.0451	1.0384	0.9191	System adjustments or voltage support if needed
BIOMASS 70 kV	313 - Yosemite	0.937	0.968	1.0458	1.0372	0.9424	System adjustments or voltage support if needed
WRGHT PP 70 kV	313 - Yosemite	1.0446	1.0582	1.034	1.0546	1.0395	System adjustments or voltage support if needed
CALRENEW 70 kV	313 - Yosemite	0.937	0.9679	1.0457	1.0372	0.9424	System adjustments or voltage support if needed
ADAMS_E 70 kV	313 - Yosemite	0.9707	1.016	1.0507	1.0353	0.9956	System adjustments or voltage support if needed
PCHCO PP 70 kV	313 - Yosemite	1.037	1.0713	1.0176	1.0398	1.0342	System adjustments or voltage support if needed
Q723 70 kV	313 - Yosemite	1.0437	1.05	1.044	1.0428	1.048	System adjustments or voltage support if needed
INTL TUR 70 kV	313 - Yosemite	1.0387	1.0706	1.0194	1.0413	1.0369	System adjustments or voltage support if needed
VEGA 70 kV	313 - Yosemite	1.0359	1.0618	1.0391	1.0544	1.036	System adjustments or voltage support if needed
SHEPHERD 115 kV	314 - Fresno	1.0318	1.0621	1.0502	1.041	1.0348	System adjustments or voltage support if needed
KAMM 115 kV	314 - Fresno	1.0469	1.0534	1.0503	1.0376	1.0466	System adjustments or voltage support if needed
CANTUA 115 kV	314 - Fresno	1.0378	1.0579	1.0551	1.0377	1.048	System adjustments or voltage support if needed
SCHINDLR 115 kV	314 - Fresno	1.0301	1.0608	1.058	1.0377	1.0485	System adjustments or voltage support if needed
AIRWAYS2 115 kV	314 - Fresno	1.0195	1.0765	1.0586	1.0399	1.0261	System adjustments or voltage support if needed
KERCKHF1 115 kV	314 - Fresno	1.0288	1.0693	1.0581	1.0371	1.0336	System adjustments or voltage support if needed
KERCKHOFFPH2 115 kV	314 - Fresno	1.0292	1.0698	1.0587	1.0377	1.0341	System adjustments or voltage support if needed
AIRWAYS 115 kV	314 - Fresno	1.0144	1.0658	1.0494	1.0348	1.016	System adjustments or voltage support if needed
CLOVIS-1 115 kV	314 - Fresno	1.0263	1.0697	1.0568	1.0442	1.0325	System adjustments or voltage support if needed
CLOVIS-2 115 kV	314 - Fresno	1.0216	1.0736	1.0592	1.0451	1.0289	System adjustments or voltage support if needed
SANGER 115 kV	314 - Fresno	1.0298	1.0722	1.0581	1.0459	1.0357	System adjustments or voltage support if needed
LASPALMS 115 kV	314 - Fresno	1.0212	1.0747	1.0577	1.0398	1.027	System adjustments or voltage support if needed
MC CALL 115 kV	314 - Fresno	1.042	1.0696	1.0567	1.0502	1.047	System adjustments or voltage support if needed
MALAGA 115 kV	314 - Fresno	1.0351	1.0686	1.0587	1.0466	1.0408	System adjustments or voltage support if needed
RANCHRS 115 kV	314 - Fresno	1.0348	1.0683	1.0588	1.0468	1.0406	System adjustments or voltage support if needed
PPG 115 kV	314 - Fresno	1.0351	1.0686	1.0587	1.0466	1.0408	System adjustments or voltage support if needed
AIRPROD 115 kV	314 - Fresno	1.0357	1.0687	1.0582	1.047	1.0413	System adjustments or voltage support if needed
REEDLEY 115 kV	314 - Fresno	1.0214	1.0782	1.0634	1.0484	1.0326	System adjustments or voltage support if needed
KRCDP 115 kV	314 - Fresno	1.036	1.0686	1.0587	1.0466	1.0415	System adjustments or voltage support if needed
WAHTOKE 115 kV	314 - Fresno	1.0276	1.0761	1.061	1.0498	1.0367	System adjustments or voltage support if needed
SESWTF 115 kV	314 - Fresno	1.0152	1.0652	1.0489	1.0347	1.0163	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
KNGSCOGN 115 kV	314 - Fresno	1.0369	1.066	1.0517	1.0472	1.0414	System adjustments or voltage support if needed
SUNMAID 115 kV	314 - Fresno	1.0369	1.066	1.0517	1.0472	1.0414	System adjustments or voltage support if needed
RAINBW 115 kV	314 - Fresno	1.0266	1.074	1.06	1.0464	1.0342	System adjustments or voltage support if needed
DANISHCM 115 kV	314 - Fresno	1.0219	1.0742	1.0618	1.0458	1.031	System adjustments or voltage support if needed
EXCELSIORSS 115 kV	314 - Fresno	1.0339	1.0595	1.0567	1.0379	1.0488	System adjustments or voltage support if needed
PIEDRA 1 115 kV	314 - Fresno	1.0279	1.0749	1.0614	1.0486	1.0365	System adjustments or voltage support if needed
Q678 115 kV	314 - Fresno	1.0339	1.0594	1.0567	1.0379	1.0488	System adjustments or voltage support if needed
PIEDRA 2 115 kV	314 - Fresno	1.033	1.0717	1.0584	1.0475	1.0383	System adjustments or voltage support if needed
BALCH 115 kV	314 - Fresno	1.0416	1.0697	1.0586	1.0513	1.0451	System adjustments or voltage support if needed
KNGSRVR1 115 kV	314 - Fresno	1.0387	1.0736	1.0623	1.0533	1.0448	System adjustments or voltage support if needed
CAL AVE 115 kV	314 - Fresno	1.0207	1.0742	1.0624	1.0457	1.03	System adjustments or voltage support if needed
WST FRSO 115 kV	314 - Fresno	1.0187	1.0746	1.0631	1.0459	1.0286	System adjustments or voltage support if needed
BARTON 115 kV	314 - Fresno	1.0134	1.0614	1.0439	1.0313	1.0111	System adjustments or voltage support if needed
PNDLJ2 115 kV	314 - Fresno	1.0125	1.056	1.0441	1.0243	1.0121	System adjustments or voltage support if needed
MANCHSTR 115 kV	314 - Fresno	1.0185	1.0718	1.0567	1.0358	1.0231	System adjustments or voltage support if needed
PNEDLE 115 kV	314 - Fresno	1.0105	1.0573	1.0448	1.0243	1.0108	System adjustments or voltage support if needed
WOODWARD 115 kV	314 - Fresno	1.0253	1.0604	1.0474	1.0362	1.0272	System adjustments or voltage support if needed
PNEDLE2 115 kV	314 - Fresno	1.0122	1.0561	1.0442	1.0243	1.0118	System adjustments or voltage support if needed
BULLARD 115 kV	314 - Fresno	1.0098	1.0569	1.0457	1.025	1.0105	System adjustments or voltage support if needed
KINGS J2 115 kV	314 - Fresno	1.0356	1.0659	1.051	1.0465	1.0402	System adjustments or voltage support if needed
KINGSBURGD 115 kV	314 - Fresno	1.031	1.0648	1.0477	1.0442	1.036	System adjustments or voltage support if needed
KINGSBURGE 115 kV	314 - Fresno	1.031	1.0648	1.0477	1.0442	1.036	System adjustments or voltage support if needed
CORCORAN 115 kV	314 - Fresno	1.0128	1.059	1.0385	1.0368	1.0456	System adjustments or voltage support if needed
CHLDHOSP 115 kV	314 - Fresno	1.0238	1.0557	1.0416	1.0303	1.0224	System adjustments or voltage support if needed
GRDNGLS1WB 115 kV	314 - Fresno	1.0348	1.0675	1.0507	1.0461	1.0395	System adjustments or voltage support if needed
WESTLNDS 115 kV	314 - Fresno	1.0353	1.0586	1.056	1.0377	1.0484	System adjustments or voltage support if needed
WAUKENA_SS 115 kV	314 - Fresno	1.0145	1.0581	1.0371	1.0375	1.0458	System adjustments or voltage support if needed
CORCORANPV_P 115 kV	314 - Fresno	1.0146	1.0582	1.0372	1.0375	1.0459	System adjustments or voltage support if needed
Q529 115 kV	314 - Fresno	1.0158	1.0577	1.0371	1.0375	1.0456	System adjustments or voltage support if needed
GRDNGLS2EB 115 kV	314 - Fresno	1.0369	1.066	1.0517	1.0472	1.0414	System adjustments or voltage support if needed
Q558 115 kV	314 - Fresno	1.0146	1.0582	1.0372	1.0375	1.0459	System adjustments or voltage support if needed
SANGERCN 115 kV	314 - Fresno	1.0283	1.0737	1.0595	1.0462	1.0351	System adjustments or voltage support if needed
PARLIER 115 kV	314 - Fresno	1.024	1.0761	1.0619	1.0474	1.0333	System adjustments or voltage support if needed
JACKSONSWSTA 115 kV	314 - Fresno	N/A	1.0533	1.0311	1.0389	N/A	System adjustments or voltage support if needed
CHSR10A 115 kV	314 - Fresno	N/A	1.0533	1.0311	1.0389	N/A	System adjustments or voltage support if needed
CHSR10B 115 kV	314 - Fresno	N/A	1.0533	1.0311	1.0389	N/A	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
RVRRC T 70 kV	314 - Fresno	1.0268	1.0491	1.0633	1.044	1.0431	System adjustments or voltage support if needed
AVNLPARK 70 kV	314 - Fresno	0.9785	1.0296	1.0428	0.9897	1.0319	System adjustments or voltage support if needed
SUN CITY 70 kV	314 - Fresno	0.978	1.031	1.045	0.9896	1.0333	System adjustments or voltage support if needed
KANSASS_P 70 kV	314 - Fresno	1.0366	1.0496	1.0423	1.0371	1.0382	System adjustments or voltage support if needed
WISHON 70 kV	314 - Fresno	1.0083	1.0544	1.0827	1.045	1.0375	System adjustments or voltage support if needed
RIVERROC 70 kV	314 - Fresno	1.0268	1.0491	1.0633	1.044	1.0431	System adjustments or voltage support if needed
KETTLEMNS 70 kV	314 - Fresno	1.0469	1.0419	1.0346	1.0376	1.0357	System adjustments or voltage support if needed
Q679 70 kV	314 - Fresno	0.9733	1.025	1.0458	1.0347	1.0165	System adjustments or voltage support if needed
HARDWICK 70 kV	314 - Fresno	0.9982	1.0522	1.0325	1.0219	1.0101	System adjustments or voltage support if needed
GUERNSEY 70 kV	314 - Fresno	1.0145	1.0635	1.0583	1.0342	1.0395	System adjustments or voltage support if needed
COPPRMNE 70 kV	314 - Fresno	1.0243	1.0512	1.0716	1.0451	1.0437	System adjustments or voltage support if needed
BIOLA 70 kV	314 - Fresno	1.0291	1.0636	1.0387	1.034	1.0428	System adjustments or voltage support if needed
BOWLES 70 kV	314 - Fresno	1.0369	1.0534	1.036	1.0351	1.0454	System adjustments or voltage support if needed
GIFFEN 70 kV	314 - Fresno	0.9732	1.025	1.0458	1.0347	1.0165	System adjustments or voltage support if needed
SAN JOQN 70 kV	314 - Fresno	1.0369	1.0481	1.0404	1.0372	1.0386	System adjustments or voltage support if needed
HELM 70 kV	314 - Fresno	1.0415	1.0452	1.0383	1.0375	1.0426	System adjustments or voltage support if needed
AGRICO 70 kV	314 - Fresno	1.0303	1.0561	1.0456	1.0361	1.0335	System adjustments or voltage support if needed
TVY VLLY 70 kV	314 - Fresno	1.0219	1.1021	1.0822	1.0627	1.0379	System adjustments or voltage support if needed
KEARNEY 70 kV	314 - Fresno	1.0458	1.0494	1.0312	1.0371	1.0496	System adjustments or voltage support if needed
FRESNOWW 70 kV	314 - Fresno	1.045	1.0486	1.0303	1.0362	1.0487	System adjustments or voltage support if needed
KERMAN1 70 kV	314 - Fresno	1.0202	1.0611	1.0491	1.0359	1.0275	System adjustments or voltage support if needed
KERMAN2 70 kV	314 - Fresno	1.0201	1.0611	1.0491	1.0359	1.0274	System adjustments or voltage support if needed
REEDLEY 70 kV	314 - Fresno	1.028	1.0962	1.0787	1.0631	1.0406	System adjustments or voltage support if needed
AUBERRY 70 kV	314 - Fresno	1.0039	1.0569	1.0862	1.0436	1.0365	System adjustments or voltage support if needed
DUNLAP 70 kV	314 - Fresno	1.0031	1.1041	1.088	1.0616	1.0243	System adjustments or voltage support if needed
SANDCRK 70 kV	314 - Fresno	1.007	1.1036	1.0869	1.062	1.0273	System adjustments or voltage support if needed
STONCRRL 70 kV	314 - Fresno	1.0129	1.102	1.085	1.0627	1.0315	System adjustments or voltage support if needed
DNUBAEGY 70 kV	314 - Fresno	1.0232	1.0979	1.0807	1.0627	1.0379	System adjustments or voltage support if needed
DINUBA 70 kV	314 - Fresno	1.013	1.1011	1.0845	1.0617	1.032	System adjustments or voltage support if needed
OROSI 70 kV	314 - Fresno	1.0161	1.101	1.0834	1.063	1.0329	System adjustments or voltage support if needed
CAMDEN 70 kV	314 - Fresno	0.9792	1.0533	1.0391	1.0175	1.001	System adjustments or voltage support if needed
CARUTHRS 70 kV	314 - Fresno	1.0347	1.0642	1.0383	1.0373	1.0455	System adjustments or voltage support if needed
LEMORNAS 70 kV	314 - Fresno	1.0454	1.0342	1.0337	1.031	1.034	System adjustments or voltage support if needed
LEPRINO 70 kV	314 - Fresno	1.0236	1.0308	1.039	1.0248	1.0213	System adjustments or voltage support if needed
LEMOORE 70 kV	314 - Fresno	1.0248	1.0331	1.041	1.0264	1.0228	System adjustments or voltage support if needed
HNFRD SW 70 kV	314 - Fresno	1.0006	1.0504	1.0311	1.0223	1.0108	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
CANDLEWK 70 kV	314 - Fresno	1.0253	1.0328	1.0407	1.0265	1.023	System adjustments or voltage support if needed
CORCORAN 70 kV	314 - Fresno	1.0278	1.0803	1.0541	1.0525	1.0588	System adjustments or voltage support if needed
JGBSWLL 70 kV	314 - Fresno	1.0232	1.0796	1.0513	1.0494	1.0535	System adjustments or voltage support if needed
ARMSTRNG 70 kV	314 - Fresno	1.0143	1.0637	1.0584	1.0342	1.0392	System adjustments or voltage support if needed
RESERVE 70 kV	314 - Fresno	1.0141	1.0637	1.0584	1.0342	1.0391	System adjustments or voltage support if needed
ANGIOLA 70 kV	314 - Fresno	1.019	1.0784	1.0513	1.0487	1.0499	System adjustments or voltage support if needed
GWF_HENR 70 kV	314 - Fresno	1.046	1.0484	1.0383	1.0368	1.0407	System adjustments or voltage support if needed
BOSWELL 70 kV	314 - Fresno	1.0237	1.0799	1.0515	1.0496	1.0542	System adjustments or voltage support if needed
HENRIETTAD 70 kV	314 - Fresno	1.0466	1.0355	1.0349	1.0322	1.0352	System adjustments or voltage support if needed
JCBSCRNR 70 kV	314 - Fresno	1.032	1.0499	1.0436	1.0372	1.0359	System adjustments or voltage support if needed
TLRE LKE 70 kV	314 - Fresno	1.009	1.0445	1.0394	1.0296	1.005	System adjustments or voltage support if needed
AVENAL 70 kV	314 - Fresno	0.9776	1.0312	1.0456	0.9895	1.0336	System adjustments or voltage support if needed
KENT SS 70 kV	314 - Fresno	1.0464	1.0472	1.038	1.037	1.0395	System adjustments or voltage support if needed
AMSTG SW 70 kV	314 - Fresno	1.0143	1.0637	1.0584	1.0342	1.0392	System adjustments or voltage support if needed
CRESCENTSS 70 kV	314 - Fresno	1.0359	1.0503	1.043	1.0338	1.0486	System adjustments or voltage support if needed
STROUD 70 kV	314 - Fresno	1.0314	1.0569	1.0482	1.0332	1.0509	System adjustments or voltage support if needed
KENT_S 70 kV	314 - Fresno	1.0464	1.0472	1.038	1.037	1.0395	System adjustments or voltage support if needed
KNGLOBUS 70 kV	314 - Fresno	1.0068	1.0439	1.0263	1.0227	1.0121	System adjustments or voltage support if needed
FRANTDM 70 kV	314 - Fresno	1.032	1.0474	1.0674	1.0439	1.0431	System adjustments or voltage support if needed
SCULPIN 70 kV	314 - Fresno	1.0359	1.0516	1.0443	1.0351	1.0499	System adjustments or voltage support if needed
Q272 70 kV	314 - Fresno	1.0466	1.035	1.035	1.0322	1.035	System adjustments or voltage support if needed
HENRIETTAE 70 kV	314 - Fresno	1.0462	1.0484	1.0383	1.0369	1.0406	System adjustments or voltage support if needed
Q1136 70 kV	314 - Fresno	1.0464	1.047	1.038	1.037	1.0392	System adjustments or voltage support if needed
TUPMAN 115 kV	315 - Kern	1.0375	1.0559	1.0378	1.0459	1.0358	System adjustments or voltage support if needed
RIO BRVO 115 kV	315 - Kern	1.0356	1.0583	1.0404	1.0459	1.0347	System adjustments or voltage support if needed
RENFRO 115 kV	315 - Kern	1.0356	1.0573	1.0365	1.0461	1.0361	System adjustments or voltage support if needed
SHAFTER 115 kV	315 - Kern	1.0373	1.0577	1.0408	1.0463	1.0357	System adjustments or voltage support if needed
RENFRO2 115 kV	315 - Kern	1.035	1.0601	1.0405	1.0457	1.0353	System adjustments or voltage support if needed
NORCO_TA 115 kV	315 - Kern	1.0373	1.0558	1.0377	1.0458	1.0356	System adjustments or voltage support if needed
NORCO 115 kV	315 - Kern	1.0373	1.0558	1.0377	1.0458	1.0356	System adjustments or voltage support if needed
INERGY 115 kV	315 - Kern	1.0362	1.0547	1.0366	1.0447	1.0345	System adjustments or voltage support if needed
FRITO LY 115 kV	315 - Kern	1.0399	1.0536	1.0376	1.0457	1.0366	System adjustments or voltage support if needed
LOSTHL T 70 kV	315 - Kern	1.0434	1.0451	1.0387	1.039	1.031	System adjustments or voltage support if needed
BDGRHL T 70 kV	315 - Kern	1.0332	1.0429	1.0361	1.0342	1.0226	System adjustments or voltage support if needed
CARNAT T 70 kV	315 - Kern	1.0301	1.0355	1.0373	1.0373	1.0323	System adjustments or voltage support if needed
BSCSCH T 70 kV	315 - Kern	1.0241	1.0448	1.0389	1.0356	1.0307	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
TECUYA T 70 kV	315 - Kern	1.026	1.0443	1.0469	1.0332	1.0281	System adjustments or voltage support if needed
GRMMWY T 70 kV	315 - Kern	1.0071	1.0449	1.0384	1.0228	1.0139	System adjustments or voltage support if needed
BDGR HLL 70 kV	315 - Kern	1.0301	1.0404	1.033	1.0311	1.0195	System adjustments or voltage support if needed
ARCO 70 kV	315 - Kern	1.0468	1.0461	1.0398	1.0408	1.0339	System adjustments or voltage support if needed
DEVLS DN 70 kV	315 - Kern	1.0435	1.0467	1.0373	1.0373	1.0312	System adjustments or voltage support if needed
TAFT_SW_TAFK 70 kV	315 - Kern	1.0376	1.0326	1.0211	1.0419	1.0193	System adjustments or voltage support if needed
DEVLDNPP 70 kV	315 - Kern	1.03	1.0436	1.0229	1.0239	1.0169	System adjustments or voltage support if needed
BLUSTNPP 70 kV	315 - Kern	1.0247	1.0426	1.0175	1.0185	1.0115	System adjustments or voltage support if needed
POLPASPP 70 kV	315 - Kern	1.0214	1.0414	1.0142	1.0152	1.0082	System adjustments or voltage support if needed
TAFT A 70 kV	315 - Kern	1.0377	1.0328	1.0213	1.042	1.0194	System adjustments or voltage support if needed
GARDNER 70 kV	315 - Kern	1.0263	1.0389	1.0321	1.0348	1.026	System adjustments or voltage support if needed
BSCL_PLD 70 kV	315 - Kern	1.024	1.0448	1.0388	1.0355	1.0306	System adjustments or voltage support if needed
GARDNR T 70 kV	315 - Kern	1.0269	1.0399	1.0329	1.0355	1.0267	System adjustments or voltage support if needed
COPUS_D 70 kV	315 - Kern	1.0241	1.0448	1.039	1.0356	1.0308	System adjustments or voltage support if needed
COPUS_E 70 kV	315 - Kern	1.0241	1.0448	1.039	1.0356	1.0308	System adjustments or voltage support if needed
LAKEVIEW 70 kV	315 - Kern	1.0267	1.0437	1.0469	1.0334	1.0283	System adjustments or voltage support if needed
WHEELER 70 kV	315 - Kern	1.033	1.0463	1.0499	1.0369	1.0343	System adjustments or voltage support if needed
TEJON 70 kV	315 - Kern	1.0253	1.0441	1.0466	1.0329	1.0275	System adjustments or voltage support if needed
Q620 70 kV	315 - Kern	1.0263	1.0418	1.0352	1.0355	1.0287	System adjustments or voltage support if needed
ORION 70 kV	315 - Kern	1.0195	1.0485	1.0487	1.0298	1.0292	System adjustments or voltage support if needed
SN BRNRD 70 kV	315 - Kern	1.0249	1.0433	1.0454	1.0319	1.0275	System adjustments or voltage support if needed
TAFT_SW_TAFM 70 kV	315 - Kern	1.0377	1.0328	1.0213	1.0419	1.0194	System adjustments or voltage support if needed
SAN EMDO 70 kV	315 - Kern	1.0258	1.0436	1.0415	1.0374	1.0333	System adjustments or voltage support if needed
S_KERN 70 kV	315 - Kern	1.0253	1.0482	1.044	1.0369	1.0364	System adjustments or voltage support if needed
ARVIN 70 kV	315 - Kern	1.0191	1.0476	1.0476	1.0296	1.0278	System adjustments or voltage support if needed
WEEDPTCH 70 kV	315 - Kern	1.0148	1.0484	1.0428	1.0275	1.0212	System adjustments or voltage support if needed
WEEDPATCH_SF 70 kV	315 - Kern	1.0148	1.0484	1.0428	1.0275	1.0212	System adjustments or voltage support if needed
KRN CNYN 70 kV	315 - Kern	1.0293	1.0537	1.0413	1.0337	1.0315	System adjustments or voltage support if needed
RIOBRVQF 70 kV	315 - Kern	1.0281	1.0531	1.0407	1.033	1.0305	System adjustments or voltage support if needed
BAKRSFLD 70 kV	315 - Kern	1.0271	1.0535	1.0338	1.0309	1.0288	System adjustments or voltage support if needed
EISEN 70 kV	315 - Kern	1.0109	1.0548	1.0177	1.0147	1.0126	System adjustments or voltage support if needed
MAGUNDEN 70 kV	315 - Kern	1.0269	1.0533	1.039	1.0323	1.0295	System adjustments or voltage support if needed
OLD RIVR 70 kV	315 - Kern	1.0262	1.0391	1.0394	1.0378	1.0307	System adjustments or voltage support if needed
PANAMA 70 kV	315 - Kern	1.0244	1.0346	1.0384	1.0372	1.0278	System adjustments or voltage support if needed
MORELS 70 kV	315 - Kern	1.0377	1.039	1.034	1.0334	1.0284	System adjustments or voltage support if needed
GRMWY_SM 70 kV	315 - Kern	1.0045	1.0433	1.0359	1.0203	1.0113	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
WELLFILD 70 kV	315 - Kern	1.0048	1.0442	1.0382	1.0224	1.0117	System adjustments or voltage support if needed
FRUITVLE 70 kV	315 - Kern	1.0411	1.0449	1.0431	1.0434	1.0422	System adjustments or voltage support if needed
KERN PW1 70 kV	315 - Kern	1.0413	1.0447	1.043	1.0434	1.0423	System adjustments or voltage support if needed
KERN PW2 70 kV	315 - Kern	1.0412	1.0446	1.0429	1.0433	1.0422	System adjustments or voltage support if needed
KRN OL J 70 kV	315 - Kern	1.0299	1.0377	1.0348	1.0357	1.0312	System adjustments or voltage support if needed
3EMIDIO 70 kV	315 - Kern	1.0199	1.0359	1.0387	1.0253	1.0213	System adjustments or voltage support if needed
VALPREDO 70 kV	315 - Kern	1.0227	1.0385	1.0414	1.0281	1.0241	System adjustments or voltage support if needed
ROSE 70 kV	315 - Kern	1.0213	1.039	1.0427	1.0289	1.0235	System adjustments or voltage support if needed
LST HLLS 70 kV	315 - Kern	1.0419	1.0434	1.0373	1.0376	1.0296	System adjustments or voltage support if needed
TECUYA 70 kV	315 - Kern	1.0249	1.0436	1.0458	1.0321	1.027	System adjustments or voltage support if needed
STALLION 70 kV	315 - Kern	1.0223	1.0462	1.0473	1.0312	1.0284	System adjustments or voltage support if needed
STALIONJ 70 kV	315 - Kern	1.022	1.0459	1.0469	1.0309	1.0281	System adjustments or voltage support if needed
BRRNDA C 70 kV	315 - Kern	1.0371	1.0466	1.0318	1.0307	1.0257	System adjustments or voltage support if needed
BRRNDA A 70 kV	315 - Kern	1.0385	1.047	1.0322	1.0313	1.0269	System adjustments or voltage support if needed
ANTLP JC 70 kV	315 - Kern	1.0372	1.0467	1.032	1.0308	1.0259	System adjustments or voltage support if needed
ANTELOPE 70 kV	315 - Kern	1.037	1.0467	1.032	1.0308	1.0257	System adjustments or voltage support if needed
TWISLMN 70 kV	315 - Kern	1.0319	1.0366	1.0323	1.0287	1.0267	System adjustments or voltage support if needed
CHLME JT 70 kV	315 - Kern	1.0406	1.0484	1.0336	1.0329	1.0288	System adjustments or voltage support if needed
Q1493 70 kV	315 - Kern	1.0469	1.0407	1.04	1.04	1.035	System adjustments or voltage support if needed
FOREBAYWIND 60 kV	316 - Mission	1.0207	1.0531	1.0473	1.0413	1.0262	System adjustments or voltage support if needed
VASCO 60 kV	316 - Mission	1.0204	1.0545	1.0484	1.0422	1.0256	System adjustments or voltage support if needed
LIVERMRE 60 kV	316 - Mission	1.0135	1.0551	1.0469	1.0399	1.0202	System adjustments or voltage support if needed
RADUM 60 kV	316 - Mission	1.0091	1.0551	1.0462	1.0394	1.0169	System adjustments or voltage support if needed
PARKS 60 kV	316 - Mission	1.0097	1.0552	1.0485	1.0424	1.0182	System adjustments or voltage support if needed
FRICKWND 60 kV	316 - Mission	1.0205	1.0531	1.0473	1.0413	1.0259	System adjustments or voltage support if needed
SAN RAMN 60 kV	316 - Mission	1.0107	1.0551	1.0518	1.0469	1.0202	System adjustments or voltage support if needed
VALLECTS 60 kV	316 - Mission	1.0129	1.0522	1.0429	1.0348	1.0187	System adjustments or voltage support if needed
SUNOL 60 kV	316 - Mission	1.0143	1.051	1.0421	1.0334	1.0195	System adjustments or voltage support if needed
LPOSTAS 60 kV	316 - Mission	1.021	1.0551	1.0488	1.0427	1.026	System adjustments or voltage support if needed
E DUBLIN 60 kV	316 - Mission	1.0097	1.0552	1.0488	1.0428	1.0183	System adjustments or voltage support if needed
CALMAT60 60 kV	316 - Mission	1.0094	1.0551	1.0453	1.0384	1.0168	System adjustments or voltage support if needed
LIVRMR_2 60 kV	316 - Mission	1.0135	1.0551	1.0468	1.0399	1.0201	System adjustments or voltage support if needed
VINEYARD 60 kV	316 - Mission	1.0092	1.0551	1.0462	1.0394	1.017	System adjustments or voltage support if needed
SNTACLRAWIND 60 kV	316 - Mission	1.0207	1.0531	1.0473	1.0413	1.0262	System adjustments or voltage support if needed
VALLCITJ 60 kV	316 - Mission	1.0107	1.0541	1.045	1.038	1.0178	System adjustments or voltage support if needed
SNRAMONJ 60 kV	316 - Mission	1.0148	1.0542	1.0459	1.0388	1.0207	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
IUKA 60 kV	316 - Mission	1.0096	1.0548	1.0457	1.0389	1.0172	System adjustments or voltage support if needed
MONTAVIS 230 kV	317 - De Anza	1.032	1.0775	1.0646	1.0289	1.0372	System adjustments or voltage support if needed
SARATOGA 230 kV	317 - De Anza	1.0266	1.0711	1.0598	1.0282	1.0317	System adjustments or voltage support if needed
VASONA 230 kV	317 - De Anza	1.0249	1.0665	1.0564	1.0277	1.0296	System adjustments or voltage support if needed
MNTA VSA 60 kV	317 - De Anza	1.0514	1.0515	1.0425	1.0485	1.0514	System adjustments or voltage support if needed
PRMNT J3 60 kV	317 - De Anza	1.0505	1.0517	1.0425	1.0482	1.0508	System adjustments or voltage support if needed
PRMNT J1 60 kV	317 - De Anza	1.0453	1.0502	1.0364	1.0424	1.0453	System adjustments or voltage support if needed
LOS GATS 60 kV	317 - De Anza	1.0301	1.0513	1.0446	1.0428	1.0369	System adjustments or voltage support if needed
HICKS 230 kV	318 - San Jose	1.0245	1.0635	1.0535	1.0275	1.0289	System adjustments or voltage support if needed
DIXON LD 115 kV	318 - San Jose	1.0224	1.0528	1.0461	1.0362	1.0252	System adjustments or voltage support if needed
ELPT_SJ1 115 kV	318 - San Jose	1.022	1.0608	1.0499	1.0339	1.0242	System adjustments or voltage support if needed
ELPT_SJ2 115 kV	318 - San Jose	1.0247	1.0658	1.0554	1.0384	1.0274	System adjustments or voltage support if needed
SJB DG 115 kV	318 - San Jose	1.021	1.0573	1.0459	1.0308	1.0226	System adjustments or voltage support if needed
SN JSE A 115 kV	318 - San Jose	1.022	1.0608	1.0499	1.0339	1.0242	System adjustments or voltage support if needed
SJB EF 115 kV	318 - San Jose	1.0212	1.0582	1.0469	1.0316	1.0231	System adjustments or voltage support if needed
EL PATIO 115 kV	318 - San Jose	1.0247	1.0658	1.0554	1.0384	1.0274	System adjustments or voltage support if needed
IBM-HR J 115 kV	318 - San Jose	1.047	1.0808	1.0744	1.0567	1.0502	System adjustments or voltage support if needed
SWIFT 115 kV	318 - San Jose	1.0308	1.07	1.0663	1.0502	1.0361	System adjustments or voltage support if needed
MILPITAS 115 kV	318 - San Jose	1.0243	1.0578	1.0468	1.0366	1.0265	System adjustments or voltage support if needed
MCKEE 115 kV	318 - San Jose	1.0219	1.0625	1.0614	1.0454	1.0279	System adjustments or voltage support if needed
MABURY 115 kV	318 - San Jose	1.0184	1.0549	1.057	1.0421	1.024	System adjustments or voltage support if needed
MARKHAM 115 kV	318 - San Jose	1.0228	1.0632	1.0522	1.0357	1.0255	System adjustments or voltage support if needed
EVRGRN 1 115 kV	318 - San Jose	1.0256	1.0705	1.061	1.0424	1.0298	System adjustments or voltage support if needed
IBM-CTLE 115 kV	318 - San Jose	1.0504	1.0833	1.0814	1.0626	1.0543	System adjustments or voltage support if needed
EDENVALE 115 kV	318 - San Jose	1.0504	1.0836	1.0817	1.0626	1.0544	System adjustments or voltage support if needed
IBM-HRRS 115 kV	318 - San Jose	1.0519	1.0842	1.0812	1.0627	1.0555	System adjustments or voltage support if needed
IBM-BALY 115 kV	318 - San Jose	1.0538	1.0855	1.0809	1.0628	1.0572	System adjustments or voltage support if needed
MTCALF D 115 kV	318 - San Jose	1.0549	1.0861	1.0809	1.0631	1.0581	System adjustments or voltage support if needed
MTCALF E 115 kV	318 - San Jose	1.055	1.0859	1.0807	1.0629	1.0581	System adjustments or voltage support if needed
CYTE PMP 115 kV	318 - San Jose	1.0545	1.0856	1.0802	1.0624	1.0575	System adjustments or voltage support if needed
MRGN HIL 115 kV	318 - San Jose	1.0323	1.0765	1.0736	1.0498	1.0435	System adjustments or voltage support if needed
GILROYENG 115 kV	318 - San Jose	1.0238	1.0822	1.076	1.048	1.0374	System adjustments or voltage support if needed
LLAGAS 115 kV	318 - San Jose	1.0239	1.0823	1.076	1.049	1.0375	System adjustments or voltage support if needed
GILROY F 115 kV	318 - San Jose	1.0238	1.0822	1.0759	1.048	1.0374	System adjustments or voltage support if needed
PIERCY 115 kV	318 - San Jose	1.038	1.0764	1.0742	1.0566	1.0433	System adjustments or voltage support if needed
GILROYPK 115 kV	318 - San Jose	1.0238	1.0822	1.076	1.0479	1.0374	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
STONE 115 kV	318 - San Jose	1.0225	1.0704	1.0611	1.0417	1.0274	System adjustments or voltage support if needed
ST TRESA 115 kV	318 - San Jose	1.0507	1.0835	1.0815	1.0627	1.0546	System adjustments or voltage support if needed
Q1454 115 kV	318 - San Jose	1.055	1.0833	1.0783	1.061	1.0581	System adjustments or voltage support if needed
MABURY 60 kV	318 - San Jose	1.0173	1.0786	1.0656	1.0436	1.025	System adjustments or voltage support if needed
JENNINGS 60 kV	318 - San Jose	1.0172	1.0777	1.0646	1.0435	1.0241	System adjustments or voltage support if needed
EVERGREN 60 kV	318 - San Jose	1.0171	1.0768	1.0634	1.0434	1.0231	System adjustments or voltage support if needed
SENER 60 kV	318 - San Jose	1.0171	1.0768	1.0634	1.0434	1.0232	System adjustments or voltage support if needed
ALMADEN 60 kV	318 - San Jose	0.9986	1.0827	1.0659	1.0393	1.011	System adjustments or voltage support if needed
GREENVALLEY 115 kV	319 - Central Coast	1.0212	1.0479	1.0523	1.0313	1.0302	System adjustments or voltage support if needed
CMP EVRS 115 kV	319 - Central Coast	1.0202	1.049	1.0575	1.0309	1.0299	System adjustments or voltage support if needed
PAUL SWT 115 kV	319 - Central Coast	1.0163	1.0494	1.0582	1.0308	1.0277	System adjustments or voltage support if needed
ROB ROY 115 kV	319 - Central Coast	1.0182	1.0484	1.0556	1.0311	1.0288	System adjustments or voltage support if needed
HOLLISTR 115 kV	319 - Central Coast	1.017	1.0524	1.0557	1.0301	1.0312	System adjustments or voltage support if needed
HOLST D 115 kV	319 - Central Coast	1.017	1.0524	1.0556	1.0301	1.0312	System adjustments or voltage support if needed
BIG BASN 60 kV	319 - Central Coast	1.0416	1.0532	1.0419	1.0446	1.0444	System adjustments or voltage support if needed
BURNS 60 kV	319 - Central Coast	1.0403	1.0533	1.0413	1.0437	1.0435	System adjustments or voltage support if needed
LONE STR 60 kV	319 - Central Coast	1.039	1.0528	1.04	1.0424	1.0422	System adjustments or voltage support if needed
CRUSHER 60 kV	319 - Central Coast	1.0385	1.0539	1.0408	1.0426	1.0422	System adjustments or voltage support if needed
GREENVALLEY 60 kV	319 - Central Coast	1.0095	1.0774	1.0419	1.0208	1.02	System adjustments or voltage support if needed
ERTA 60 kV	319 - Central Coast	1.0058	1.073	1.0394	1.0176	1.0169	System adjustments or voltage support if needed
WTSNVLL 60 kV	319 - Central Coast	0.9996	1.0651	1.0349	1.012	1.0116	System adjustments or voltage support if needed
AGRILINK 60 kV	319 - Central Coast	1.0006	1.0663	1.0356	1.0129	1.0124	System adjustments or voltage support if needed
GONZALES 60 kV	319 - Central Coast	1.0027	1.0361	1.0547	1.0252	1.0207	System adjustments or voltage support if needed
CAMPORA 60 kV	319 - Central Coast	1.01	1.0411	1.055	1.0273	1.0272	System adjustments or voltage support if needed
SOLEDAD 60 kV	319 - Central Coast	1.0121	1.0412	1.0537	1.0282	1.0268	System adjustments or voltage support if needed
LOS CCHS 60 kV	319 - Central Coast	1.0269	1.0562	1.043	1.0436	1.0229	System adjustments or voltage support if needed
LOS OST 60 kV	319 - Central Coast	1.0272	1.053	1.0406	1.0444	1.0193	System adjustments or voltage support if needed
JOLON 60 kV	319 - Central Coast	1.024	1.0596	1.0486	1.0449	1.0242	System adjustments or voltage support if needed
SAN ARDO 60 kV	319 - Central Coast	1.0232	1.0578	1.0384	1.0355	1.0172	System adjustments or voltage support if needed
OILFLDS 60 kV	319 - Central Coast	1.0207	1.0612	1.0335	1.0309	1.0165	System adjustments or voltage support if needed
CHVSANARDO 60 kV	319 - Central Coast	1.018	1.0647	1.0296	1.0272	1.0143	System adjustments or voltage support if needed
SARG CYN 60 kV	319 - Central Coast	1.0207	1.0612	1.0335	1.0308	1.0165	System adjustments or voltage support if needed
SALN RVR 60 kV	319 - Central Coast	1.0209	1.0634	1.0324	1.03	1.0171	System adjustments or voltage support if needed
AERA_ENG 60 kV	319 - Central Coast	1.02	1.0604	1.0329	1.0302	1.0158	System adjustments or voltage support if needed
AERA_MTR 60 kV	319 - Central Coast	1.0206	1.0611	1.0335	1.0308	1.0164	System adjustments or voltage support if needed
OCEANO 115 kV	320 - Los Padres	1.0156	1.0545	1.0426	1.0233	1.0339	System adjustments or voltage support if needed



		Voltage PU (Baseline Scenarios)				Voltage PU (Sensitivity Scenario)	
UNIONOIL 115 kV	320 - Los Padres	1.0198	1.0524	1.0398	1.0244	1.0361	System adjustments or voltage support if needed
CALLENDERSS 115 kV	320 - Los Padres	1.0197	1.0524	1.0399	1.0244	1.0361	System adjustments or voltage support if needed
CHOLAME 70 kV	320 - Los Padres	1.0266	1.0555	1.0277	1.0177	1.0191	System adjustments or voltage support if needed
PSA RBLS 70 kV	320 - Los Padres	0.9944	1.0366	1.0187	1.0147	1.0092	System adjustments or voltage support if needed
DIVIDE 70 kV	320 - Los Padres	1.0334	1.0569	1.0454	1.0423	1.0448	System adjustments or voltage support if needed
VAFB SSA 70 kV	320 - Los Padres	1.0276	1.0575	1.0412	1.0384	1.0407	System adjustments or voltage support if needed
VAFB SSB 70 kV	320 - Los Padres	1.0276	1.0575	1.0413	1.0385	1.0407	System adjustments or voltage support if needed
VAFB A-N 70 kV	320 - Los Padres	1.028	1.0578	1.0416	1.0388	1.041	System adjustments or voltage support if needed
1257-RD 70 kV	320 - Los Padres	1.0276	1.0575	1.0412	1.0384	1.0407	System adjustments or voltage support if needed