

APPENDIX E: Long Term CRR-Base Transmission Loading

Table E-1: Comparison of loading levels of selected major transmission facilities by voltage level

Season	Time of Use	Facility Type	Voltage (kV)	Facility Name	Normal Rating (MW)	Pre-Upgrade Loading (%)	Post-Upgrade Loading (%)
1	ON-PEAK	Line	500	30055_GATES1 _500_30057_DIABLO _500_BR_1_1	1481.795	57.21	56.95
1	ON-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_2_1	1481.795	46.34	46.43
1	ON-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_3_1	1481.795	46.13	46.21
1	ON-PEAK	Line	500	30056_GATES2 _500_30060_MIDWAY _500_BR_2_3	1481.795	43.42	42.37
1	ON-PEAK	Line	500	30050_LOSBANOS_500_30055_GATES1 _500_BR_1_1	1956.962	39.12	38.43
2	ON-PEAK	Line	500	30055_GATES1 _500_30057_DIABLO _500_BR_1_1	1101.479	64.2	38.52
2	ON-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_2_1	1101.479	54.21	32.53
2	ON-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_3_1	1101.479	53.96	32.37
2	ON-PEAK	Line	500	30050_LOSBANOS_500_30055_GATES1 _500_BR_1_1	1101.479	52.74	31.52
2	ON-PEAK	Line	500	30015_TABLE MT_500_30030_VACA-DIX_500_BR_1_3	1223.936	44.87	26.56

3	ON-PEAK	Line	500	30055_GATES1 _500_30057_DIABLO _500_BR_1 _1	1101.479	74.22	74.22
3	ON-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_2 _1	1101.479	63.85	63.85
3	ON-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_3 _1	1101.479	63.55	63.55
3	ON-PEAK	Line	500	30050_LOSBANOS_500_30055_GATES1 _500_BR_1 _1	1101.479	53.4	53.11
3	ON-PEAK	Line	500	30015_TABLE MT_500_30030_VACA-DIX_500_BR_1 _3	1223.936	50.81	50.11
4	ON-PEAK	Line	500	30055_GATES1 _500_30057_DIABLO _500_BR_1 _1	1101.479	74.09	74.09
4	ON-PEAK	Line	500	30050_LOSBANOS_500_30055_GATES1 _500_BR_1 _1	1101.479	65	64.79
4	ON-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_2 _1	1101.479	61.48	61.48
4	ON-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_3 _1	1101.479	61.19	61.19
4	ON-PEAK	Line	500	30050_LOSBANOS_500_30056_GATES2 _500_BR_2 _1	1101.479	52.9	52.77
1	ON-PEAK	Line	230	30437_CROCKTAP_230_30438_C AND H _230_BR_1 _1	292.4236	68.41	68.41
1	ON-PEAK	Line	230	30500_BELLOTA _230_38206_COTTLE A _230_BR_1 _1	247.4222	66.44	8.02

1	ON-PEAK	Line	230	25405_IRON MTN_230_24019_CAMINO _230_BR_1_1	173.3894	57.6	57.35
1	ON-PEAK	Line	230	24804_DEVERS _230_24806_MIRAGE _230_BR_1_1	281.7578	52.9	50.5
1	ON-PEAK	Line	230	38208_COTTLE B_230_30515_WARNERVL_230_BR_1_1	236.5283	49.86	35.88
2	ON-PEAK	Line	230	30280_POE _230_30330_RIO OSO _230_BR_1_1	174.42	100.26	60.16
2	ON-PEAK	Line	230	30105_COTTNWD _230_30245_ROUND MT_230_BR_3_1	144.5292	93.55	56.04
2	ON-PEAK	Line	230	30487_ELECTRA _230_30500_BELLOTA _230_BR_1_1	90.85835	93.34	56
2	ON-PEAK	Line	230	30437_CROCKTAP_230_30438_C AND H _230_BR_1_1	209.0369	93.04	55.82
2	ON-PEAK	Line	230	30105_COTTNWD _230_30245_ROUND MT_230_BR_2_1	168.5984	83.04	49.75
3	ON-PEAK	Line	230	30280_POE _230_30330_RIO OSO _230_BR_1_1	174.42	99.99	99.99
3	ON-PEAK	Line	230	30105_COTTNWD _230_30245_ROUND MT_230_BR_3_1	144.5292	83.88	83.7
3	ON-PEAK	Line	230	30105_COTTNWD _230_30245_ROUND MT_230_BR_2_1	168.5984	74.46	74.29
3	ON-PEAK	Line	230	30261_BELDENTP_230_30300_TABLMTN _230_BR_1_1	168.5984	72.96	72.76

3	ON-PEAK	Line	230	30250_CARIBOU _230_30261_BELDENTP_230_BR_1_1	168.5984	72.96	72.76
4	ON-PEAK	Line	230	38610_DELTAPMP_230_30580_ALTM MDW_230_BR_1_1	226.3188	78.56	77.86
4	ON-PEAK	Line	230	30580_ALTM MDW_230_30625_TESLA D_230_BR_1_1	226.3188	78.56	77.86
4	ON-PEAK	Line	230	30280_POE _230_30330_RIO OSO_230_BR_1_1	174.42	75.51	75.51
4	ON-PEAK	Line	230	30500_BELLOTA _230_38206_COTTLE A_230_BR_1_1	168.5984	73.55	78.6
4	ON-PEAK	Line	230	30105_COTTNWD _230_30245_ROUND MT_230_BR_3_1	144.5292	68.18	68.05
1	ON-PEAK	Line	138	22852_TELECYN _138_22772_SOUTHBAY_138_BR_1_1	177.2109	21	14.2
1	ON-PEAK	Line	138	22192_DOUBLTTP_138_22300_FRIARS _138_BR_1_1	86.01029	18.44	16.12
1	ON-PEAK	Line	138	22672_PRCTRVLVLY_138_22460_MIGUEL _138_BR_1_1	223.6952	17.25	11.86
1	ON-PEAK	Line	138	22865_GRNT HLL_138_22772_SOUTHBAY_138_BR_1_1	177.2109	14.9	10.86
1	ON-PEAK	Line	138	22300_FRIARS _138_22500_MISSION_138_BR_1_1	111.2202	14.79	12.99
2	ON-PEAK	Line	138	22852_TELECYN _138_22772_SOUTHBAY_138_BR_1_1	177.2109	25.63	10.5

2	ON-PEAK	Line	138	22192_DOUBLTTP_138_22300_FRIARS _138_BR_1_1	86.01029	22.42	11.88
2	ON-PEAK	Line	138	22672_PRCTRVLY_138_22460_MIGUEL _138_BR_1_1	223.6952	21.06	8.78
2	ON-PEAK	Line	138	22865_GRNT_HLL_138_22772_SOUTHBAY_138_BR_1_1	177.2109	18.23	8.08
2	ON-PEAK	Line	138	22300_FRIARS _138_22500_MISSION _138_BR_1_1	111.2202	18.04	9.62
3	ON-PEAK	Line	138	22852_TELECYN _138_22772_SOUTHBAY_138_BR_1_1	177.2109	27.07	18.67
3	ON-PEAK	Line	138	22672_PRCTRVLY_138_22460_MIGUEL _138_BR_1_1	223.6952	23.08	16.42
3	ON-PEAK	Line	138	22192_DOUBLTTP_138_22300_FRIARS _138_BR_1_1	86.01029	22.04	19.29
3	ON-PEAK	Line	138	22300_FRIARS _138_22500_MISSION _138_BR_1_1	111.2202	18.49	16.36
3	ON-PEAK	Line	138	22672_PRCTRVLY_138_22852_TELECYN _138_BR_1_1	272.6321	18.47	13.01
4	ON-PEAK	Line	138	22852_TELECYN _138_22772_SOUTHBAY_138_BR_1_1	177.2109	28.16	19.27
4	ON-PEAK	Line	138	22192_DOUBLTTP_138_22300_FRIARS _138_BR_1_1	86.01029	24.41	21.54
4	ON-PEAK	Line	138	22672_PRCTRVLY_138_22460_MIGUEL _138_BR_1_1	223.6952	23.37	16.33

4	ON-PEAK	Line	138	22300_FRIARS _138_22500_MISSION _138_BR_1 _1	111.2202	19.75	17.54
4	ON-PEAK	Line	138	22865_GRNT HLL_138_22772_SOUTHBAY_138_BR_1 _1	177.2109	19.73	14.5
1	ON-PEAK	Line	110	33203_MISSON _115_33204_POTRERO _115_BR_1 _1	79.50818	56.23	13.96
1	ON-PEAK	Line	110	34817_SHL-KRVD_115_34722_KERN_RV _115_BR_1 _1	28.518	50.07	50.07
1	ON-PEAK	Line	110	33506_STANISLS_115_33501_FRGTNTP1_115_BR_1 _1	45.45769	47.23	48.1
1	ON-PEAK	Line	110	33208_MARTIN C_115_33301_DLY CTYP_115_BR_2 _1	75.68677	46.77	32.49
1	ON-PEAK	Line	110	33506_STANISLS_115_33503_FRGTNTP2_115_BR_1 _1	45.45769	44.9	45.6
2	ON-PEAK	Line	110	33506_STANISLS_115_33501_FRGTNTP1_115_BR_1 _1	31.94016	82.63	50.24
2	ON-PEAK	Line	110	32399_ULTRA JT_115_32403_ULTR-RCK_115_BR_1 _1	17.62412	78.3	46.98
2	ON-PEAK	Line	110	34358_KERCKHF2_115_34360_WWARD JT_115_BR_1 _1	71.69425	76.07	45.41
2	ON-PEAK	Line	110	33506_STANISLS_115_33503_FRGTNTP2_115_BR_1 _1	31.94016	75.9	46.07
2	ON-PEAK	Line	110	33503_FRGTNTP2_115_33936_MELNS JB_115_BR_1 _1	31.94016	75.9	46.07

3	ON-PEAK	Line	110	33208_MARTIN C_115_33301_DLY CTYP_115_BR_2_1	55.43899	69.06	69.08
3	ON-PEAK	Line	110	32200_PEASE _115_32288_E.MRY J1_115_BR_1_1	49.96354	65.65	67.76
3	ON-PEAK	Line	110	33300_DALY CTY_115_33301_DLY CTYP_115_BR_2_1	55.43899	64.03	64.05
3	ON-PEAK	Line	110	31488_GRIZ JCT_115_31512_BIG BEN2_115_BR_1_1	36.90229	63.44	63.97
3	ON-PEAK	Line	110	31482_PALERMO _115_31516_WYANDJT2_115_BR_2_1	36.90229	63.44	63.97
4	ON-PEAK	Line	110	34817_SHL-KRVD_115_34722_KERN_RV_115_BR_1_1	28.518	72.24	72.24
4	ON-PEAK	Line	110	33208_MARTIN C_115_33301_DLY CTYP_115_BR_2_1	55.43899	69.36	69.38
4	ON-PEAK	Line	110	34358_KERCKHF2_115_34360_WWARD JT_115_BR_1_1	71.69425	63.67	63.34
4	ON-PEAK	Line	110	33570_SPC JCT _115_33572_SP CMPNY_115_BR_1_1	68.15802	63.38	63.38
4	ON-PEAK	Line	110	33568_TH.E.DV._115_33570_SPC JCT_115_BR_1_1	68.15802	63.33	19.83
1	ON-PEAK	Line	70 and below	31555_MSS TAP2_60.0_31553_BIG BAR_60.0_BR_1_1	23.72698	29.66	29.92
1	ON-PEAK	Line	70 and below	31093_HYMPOMJT_60.0_31553_BIG BAR_60.0_BR_1_1	23.72698	28.96	29.23

1	ON-PEAK	Line	70 and below	31556_TRINITY_60.0_31555_MSS TAP2_60.0_BR_1_1	25.60916	27.48	27.72
1	ON-PEAK	Line	70 and below	31580_CASCADE_60.0_31582_STLLWATR_60.0_BR_1_1	24.52548	25.11	27.82
1	ON-PEAK	Line	70 and below	31092_MPLE CRK_60.0_31093_HYPOMJT_60.0_BR_1_1	25.60916	24.64	24.89
2	ON-PEAK	Line	70 and below	31110_BRDGVILLE_60.0_31112_FRUITLND_60.0_BR_1_1	17.96634	40.84	24.4
2	ON-PEAK	Line	70 and below	31112_FRUITLND_60.0_31114_FRT SWRD_60.0_BR_1_1	17.96634	37.91	22.64
2	ON-PEAK	Line	70 and below	31114_FRT SWRD_60.0_31116_GRBRVILLE_60.0_BR_1_1	17.96634	36.25	21.64
2	ON-PEAK	Line	70 and below	31580_CASCADE_60.0_31582_STLLWATR_60.0_BR_1_1	16.54044	31.9	21.38
2	ON-PEAK	Line	70 and below	31556_TRINITY_60.0_31555_MSS TAP2_60.0_BR_1_1	17.96634	27.87	17.01
3	ON-PEAK	Line	70 and below	31110_BRDGVILLE_60.0_31112_FRUITLND_60.0_BR_1_1	17.96634	41.1	40.93
3	ON-PEAK	Line	70 and below	31112_FRUITLND_60.0_31114_FRT SWRD_60.0_BR_1_1	17.96634	38.45	38.28
3	ON-PEAK	Line	70 and below	31114_FRT SWRD_60.0_31116_GRBRVILLE_60.0_BR_1_1	17.96634	36.99	36.82
3	ON-PEAK	Line	70 and below	31658_BANGOR_60.0_32308_COLGATE_60.0_BR_1_1	14.43011	26.11	24.54

3	ON-PEAK	Line	70 and below	31580_CASCADE _60.0_31582_STLLWATR_60.0_BR_1_1	16.54044	22.91	27.42
4	ON-PEAK	Line	70 and below	31110_BRDGVILLE_60.0_31112_FRUITLND_60.0_BR_1_1	17.96634	37.37	37.24
4	ON-PEAK	Line	70 and below	31112_FRUITLND_60.0_31114_FRT SWRD_60.0_BR_1_1	17.96634	34.84	34.71
4	ON-PEAK	Line	70 and below	31114_FRT SWRD_60.0_31116_GRBRVILLE_60.0_BR_1_1	17.96634	33.52	33.39
4	ON-PEAK	Line	70 and below	31580_CASCADE _60.0_31582_STLLWATR_60.0_BR_1_1	16.54044	24.15	27.99
4	ON-PEAK	Line	70 and below	31556_TRINITY_60.0_31555_MSS TAP2_60.0_BR_1_1	17.96634	22.19	22.7
1	ON-PEAK	Transformer	500.0/230.0	30640_TESLA C _230_30040_TESLA _500_XF_6	639.9439	39.99	33.54
1	ON-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_13	639.9439	26.95	27.14
1	ON-PEAK	Transformer	500.0/230.0	30750_MOSSLD _230_30045_MOSSLAND_500_XF_9	704.965	24.67	24.88
1	ON-PEAK	Transformer	500.0/230.0	30970_MIDWAY _230_30060_MIDWAY _500_XF_12	639.9439	24.3	19.29
1	ON-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_12	682.1506	24.12	24.29
2	ON-PEAK	Transformer	500.0/230.0	30640_TESLA C _230_30040_TESLA _500_XF_6	639.9439	48.37	29

2	ON-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_13	639.9439	34.62	20.78
2	ON-PEAK	Transformer	500.0/230.0	30970_MIDWAY _230_30060_MIDWAY _500_XF_12	639.9439	32.73	19.67
2	ON-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_12	682.1506	30.98	18.6
2	ON-PEAK	Transformer	500.0/230.0	30750_MOSSLD _230_30045_MOSSLAND_500_XF_9	704.965	29.83	17.95
3	ON-PEAK	Transformer	500.0/230.0	30640_TESLA C _230_30040_TESLA _500_XF_6	639.9439	50.71	50.64
3	ON-PEAK	Transformer	500.0/230.0	30970_MIDWAY _230_30060_MIDWAY _500_XF_12	639.9439	40.26	40.34
3	ON-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_13	639.9439	33.56	33.56
3	ON-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_12	682.1506	30.04	30.04
3	ON-PEAK	Transformer	500.0/230.0	30625_TESLA D _230_30040_TESLA _500_XF_4	639.9439	29.96	30.02
4	ON-PEAK	Transformer	500.0/230.0	30640_TESLA C _230_30040_TESLA _500_XF_6	639.9439	47.15	47.11
4	ON-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_13	639.9439	31.23	31.26
4	ON-PEAK	Transformer	500.0/230.0	22464_MIGUEL _230_22468_MIGUEL _500_XF_81	638.8032	28.78	15.47

4	ON-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_12	682.1506	27.95	27.98
4	ON-PEAK	Transformer	500.0/230.0	30970_MIDWAY _230_30060_MIDWAY _500_XF_12	639.9439	27.6	27.65
1	ON-PEAK	Transformer	230.0/138.0	22460_MIGUEL _138_22464_MIGUEL _230_XF_61	223.5811	17.26	11.87
1	ON-PEAK	Transformer	230.0/138.0	22831_SYCAMORE_138_22832_SYCAMORE_230_XF_1	223.5811	5.76	20.42
1	ON-PEAK	Transformer	230.0/138.0	22652_PENSQTOS_230_22648_PENSQTOS_138_XF_1	223.5811	4.36	6.78
1	ON-PEAK	Transformer	230.0/138.0	22504_MISSION _230_22500_MISSION _138_XF_1	223.5811	1.52	4.62
1	ON-PEAK	Transformer	230.0/138.0	22504_MISSION _230_22500_MISSION _138_XF_2	223.5811	1.52	4.62
2	ON-PEAK	Transformer	230.0/138.0	22460_MIGUEL _138_22464_MIGUEL _230_XF_61	223.5811	21.08	8.78
2	ON-PEAK	Transformer	230.0/138.0	22831_SYCAMORE_138_22832_SYCAMORE_230_XF_1	223.5811	7.02	15.11
2	ON-PEAK	Transformer	230.0/138.0	22652_PENSQTOS_230_22648_PENSQTOS_138_XF_1	223.5811	5.38	5.07
2	ON-PEAK	Transformer	230.0/138.0	22504_MISSION _230_22500_MISSION _138_XF_2	223.5811	1.89	3.45
2	ON-PEAK	Transformer	230.0/138.0	22504_MISSION _230_22500_MISSION _138_XF_1	223.5811	1.89	3.45

3	ON-PEAK	Transformer	230.0/138.0	22460_MIGUEL _138_22464_MIGUEL _230_XF_61	223.5811	23.09	16.43
3	ON-PEAK	Transformer	230.0/138.0	22831_SYCAMORE_138_22832_SYCAMORE_230_XF_1	223.5811	8.75	27.51
3	ON-PEAK	Transformer	230.0/138.0	22652_PENSQTOS_230_22648_PENSQTOS_138_XF_1	223.5811	2.79	6.03
3	ON-PEAK	Transformer	230.0/138.0	22504_MISSION _230_22500_MISSION _138_XF_2	223.5811	1.02	3.95
3	ON-PEAK	Transformer	230.0/138.0	22504_MISSION _230_22500_MISSION _138_XF_1	223.5811	1.02	3.95
4	ON-PEAK	Transformer	230.0/138.0	22460_MIGUEL _138_22464_MIGUEL _230_XF_61	223.5811	23.38	16.34
4	ON-PEAK	Transformer	230.0/138.0	22831_SYCAMORE_138_22832_SYCAMORE_230_XF_1	223.5811	8.13	28.02
4	ON-PEAK	Transformer	230.0/138.0	22652_PENSQTOS_230_22648_PENSQTOS_138_XF_1	223.5811	5.24	8.62
4	ON-PEAK	Transformer	230.0/138.0	22504_MISSION _230_22500_MISSION _138_XF_2	223.5811	1.62	5.85
4	ON-PEAK	Transformer	230.0/138.0	22504_MISSION _230_22500_MISSION _138_XF_1	223.5811	1.62	5.85
1	ON-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP _230_XF_4	134.0346	26.05	24.28
1	ON-PEAK	Transformer	230.0/115.0	33000_CC SUB _115_30523_CC SUB _230_XF_3	68.4432	24.93	24.93

1	ON-PEAK	Transformer	230.0/115.0	33010_SOBRANTE_115_30540_SOBRANTE_230_XF_1	227.0033	22.84	24.62
1	ON-PEAK	Transformer	230.0/115.0	33010_SOBRANTE_115_30540_SOBRANTE_230_XF_2	227.0033	21.6	23.28
1	ON-PEAK	Transformer	230.0/115.0	24043_ELDORDO_115_24041_ELDORDO_230_XF_1A	58.17672	20.67	19.98
2	ON-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP_230_XF_4	134.0346	46.79	28.09
2	ON-PEAK	Transformer	230.0/115.0	36252_MORRO BY_115_30915_MORROBAY_230_XF_6	104.3759	37.1	22.26
2	ON-PEAK	Transformer	230.0/115.0	33000_CC SUB_115_30523_CC SUB_230_XF_3	68.4432	33.07	19.84
2	ON-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP_230_XF_3	134.0346	30.89	18.54
2	ON-PEAK	Transformer	230.0/115.0	35122_NWARK EF_115_30630_NEWARK_230_XF_11	239.5512	29.99	18.04
3	ON-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP_230_XF_4	134.0346	55.68	55.7
3	ON-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP_230_XF_3	134.0346	36.75	36.77
3	ON-PEAK	Transformer	230.0/115.0	36252_MORRO BY_115_30915_MORROBAY_230_XF_6	104.3759	33.38	33.37
3	ON-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP_230_XF_5	239.5512	31.15	31.17

3	ON-PEAK	Transformer	230.0/115.0	24043_ELDORDO _115_24041_ELDORDO _230_XF_1A	58.17672	28.53	28.22
4	ON-PEAK	Transformer	230.0/115.0	36252_MORRO BY_115_30915_MORROBAY_230_XF_6	104.3759	30.08	30.08
4	ON-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP _230_XF_4	134.0346	29.14	29.16
4	ON-PEAK	Transformer	230.0/115.0	24043_ELDORDO _115_24041_ELDORDO _230_XF_1A	58.17672	28.85	28.52
4	ON-PEAK	Transformer	230.0/115.0	33000_CC SUB _115_30523_CC SUB _230_XF_3	68.4432	28.47	28.47
4	ON-PEAK	Transformer	230.0/115.0	35122_NWARK EF_115_30630_NEWARK _230_XF_11	239.5512	22.77	22.85
1	ON-PEAK	Transformer	138 and below/69 and below	31080_HUMBOLDT_60.0_31000_HUMBOLDT_115_XF_2	21.3885	55.08	54.86
1	ON-PEAK	Transformer	138 and below/69 and below	33375_CLY LNDG_60.0_33316_CLYLDG _115_XF_1	47.91024	27.36	28.66
1	ON-PEAK	Transformer	138 and below/69 and below	22708_SANLUSRY_69.0_22712_SANLUSRY_138_XF_3	79.8504	13.49	17.53
2	ON-PEAK	Transformer	138 and below/69 and below	31080_HUMBOLDT_60.0_31000_HUMBOLDT_115_XF_2	21.67368	36.65	21.92
2	ON-PEAK	Transformer	138 and below/69 and below	33375_CLY LNDG_60.0_33316_CLYLDG _115_XF_1	47.91024	35.95	20.94

2	ON-PEAK	Transformer	138 and below/69 and below	22708_SANLUSRY_69.0_22712_SANLUSRY_138_XF_3	79.8504	16.63	13.11
3	ON-PEAK	Transformer	138 and below/69 and below	33375_CLY LNDG_60.0_33316_CLYLDG _115_XF_1	47.91024	31.84	31.15
3	ON-PEAK	Transformer	138 and below/69 and below	31080_HUMBOLDT_60.0_31000_HUMBOLDT_115_XF_2	21.67368	27.87	27.73
3	ON-PEAK	Transformer	138 and below/69 and below	22708_SANLUSRY_69.0_22712_SANLUSRY_138_XF_3	79.8504	14.45	19.42
4	ON-PEAK	Transformer	138 and below/69 and below	33375_CLY LNDG_60.0_33316_CLYLDG _115_XF_1	47.91024	32.92	31.14
4	ON-PEAK	Transformer	138 and below/69 and below	31080_HUMBOLDT_60.0_31000_HUMBOLDT_115_XF_2	21.67368	26.98	26.87
4	ON-PEAK	Transformer	138 and below/69 and below	22708_SANLUSRY_69.0_22712_SANLUSRY_138_XF_3	79.8504	17.56	23.18
1	OFF-PEAK	Line	500	30055_GATES1 _500_30057_DIABLO _500_BR_1_1	1481.79528	55.97	56.64
1	OFF-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_2_1	1481.79528	46.76	46.42
1	OFF-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_3_1	1481.79528	46.54	46.2
1	OFF-PEAK	Line	500	30056_GATES2 _500_30060_MIDWAY _500_BR_2_3	1481.79528	37.77	41.05

1	OFF-PEAK	Line	500	30050_LOSBANOS_500_30055_GATES1 _500_BR_1_1	1956.96219 6	35.04	37.32
2	OFF-PEAK	Line	500	30055_GATES1 _500_30057_DIABLO _500_BR_1_1	1481.79528	65.4	39.24
2	OFF-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_2_1	1481.79528	54.84	32.9
2	OFF-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_3_1	1481.79528	54.58	32.75
2	OFF-PEAK	Line	500	30050_LOSBANOS_500_30055_GATES1 _500_BR_1_1	1956.96219 6	51.33	30.65
2	OFF-PEAK	Line	500	30056_GATES2 _500_30060_MIDWAY _500_BR_2_3	1481.79528	42.05	25.14
3	OFF-PEAK	Line	500	30055_GATES1 _500_30057_DIABLO _500_BR_1_1	1101.47923 2	74.85	74.85
3	OFF-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_2_1	1101.47923 2	63.95	63.95
3	OFF-PEAK	Line	500	30057_DIABLO _500_30060_MIDWAY _500_BR_3_1	1101.47923 2	63.65	63.65
3	OFF-PEAK	Line	500	30050_LOSBANOS_500_30055_GATES1 _500_BR_1_1	1101.47923 2	52.12	51.82
3	OFF-PEAK	Line	500	30056_GATES2 _500_30060_MIDWAY _500_BR_2_3	1101.47923 2	42.42	42.24
4	OFF-PEAK	Line	500	30055_GATES1 _500_30057_DIABLO _500_BR_1_1	1101.47923 2	62.72	62.72

4	OFF-PEAK	Line	500	30050_LOSBANOS_500_30055_GATES1_500_BR_1_1	1101.47923 2	53.49	53.23
4	OFF-PEAK	Line	500	30057_DIABLO_500_30060_MIDWAY_500_BR_2_1	1101.47923 2	50.89	50.89
4	OFF-PEAK	Line	500	30057_DIABLO_500_30060_MIDWAY_500_BR_3_1	1101.47923 2	50.65	50.65
4	OFF-PEAK	Line	500	30050_LOSBANOS_500_30056_GATES2_500_BR_2_1	1101.47923 2	45.39	45.24
1	OFF-PEAK	Line	230	30500_BELLOTA_230_38206_COTTLE A_230_BR_1_1	247.422168	58.35	5.62
1	OFF-PEAK	Line	230	24804_DEVERS_230_24806_MIRAGE_230_BR_1_1	281.75784	57.97	56.99
1	OFF-PEAK	Line	230	25405_IRON MTN_230_24019_CAMINO_230_BR_1_1	173.38944	54.66	54.65
1	OFF-PEAK	Line	230	30580_ALTM MDW_230_30625_TESLA D_230_BR_1_1	278.33568	53.19	33.01
1	OFF-PEAK	Line	230	38610_DELTAPMP_230_30580_ALTM MDW_230_BR_1_1	278.33568	53.19	33.01
2	OFF-PEAK	Line	230	30280_POE_230_30330_RIO OSO_230_BR_1_1	181.773732	77.72	46.63
2	OFF-PEAK	Line	230	30105_COTTNWD_230_30245_ROUND MT_230_BR_3_1	220.387104	75.19	45.06
2	OFF-PEAK	Line	230	24804_DEVERS_230_24806_MIRAGE_230_BR_1_1	281.75784	68.98	40.68

2	OFF-PEAK	Line	230	30500_BELLOTA _230_38206_COTTLE A _230_BR_1_1	247.422168	68.78	47.12
2	OFF-PEAK	Line	230	30105_COTTNWD _230_30245_ROUND MT _230_BR_2_1	247.422168	66.74	40
3	OFF-PEAK	Line	230	30105_COTTNWD _230_30245_ROUND MT _230_BR_3_1	144.529224	72.06	71.93
3	OFF-PEAK	Line	230	24804_DEVERS _230_24806_MIRAGE _230_BR_1_1	281.75784	67.55	66.39
3	OFF-PEAK	Line	230	30280_POE _230_30330_RIO OSO _230_BR_1_1	174.42	66.77	66.77
3	OFF-PEAK	Line	230	30105_COTTNWD _230_30245_ROUND MT _230_BR_2_1	168.598416	63.97	63.85
3	OFF-PEAK	Line	230	30437_CROCKTAP _230_30438_C AND H _230_BR_1_1	209.03694	63.43	63.43
4	OFF-PEAK	Line	230	30500_BELLOTA _230_38206_COTTLE A _230_BR_1_1	168.598416	76.02	86.42
4	OFF-PEAK	Line	230	30437_CROCKTAP _230_30438_C AND H _230_BR_1_1	209.03694	69.25	69.25
4	OFF-PEAK	Line	230	24804_DEVERS _230_24806_MIRAGE _230_BR_1_1	281.75784	65.37	64.21
4	OFF-PEAK	Line	230	30105_COTTNWD _230_30245_ROUND MT _230_BR_3_1	144.529224	61.11	61.04
4	OFF-PEAK	Line	230	25405_IRON MTN _230_24019_CAMINO _230_BR_1_1	173.38944	60.27	60.29

1	OFF-PEAK	Line	138	22852_TELECYN_138_22772_SOUTHBAY_138_BR_1_1	177.210852	20.35	13.9
1	OFF-PEAK	Line	138	22192_DOUBLTTP_138_22300_FRIARS_138_BR_1_1	86.010288	17.77	15.69
1	OFF-PEAK	Line	138	22672_PRCTRVLY_138_22460_MIGUEL_138_BR_1_1	223.695192	16.75	11.64
1	OFF-PEAK	Line	138	22865_GRNT_HLL_138_22772_SOUTHBAY_138_BR_1_1	177.210852	14.34	10.55
1	OFF-PEAK	Line	138	22300_FRIARS_138_22500_MISSION_138_BR_1_1	111.2202	14.18	12.57
2	OFF-PEAK	Line	138	22852_TELECYN_138_22772_SOUTHBAY_138_BR_1_1	177.210852	24.32	9.97
2	OFF-PEAK	Line	138	22192_DOUBLTTP_138_22300_FRIARS_138_BR_1_1	86.010288	21.34	11.31
2	OFF-PEAK	Line	138	22672_PRCTRVLY_138_22460_MIGUEL_138_BR_1_1	223.695192	20	8.33
2	OFF-PEAK	Line	138	22865_GRNT_HLL_138_22772_SOUTHBAY_138_BR_1_1	177.210852	17.29	7.65
2	OFF-PEAK	Line	138	22500_MISSION_138_22865_GRNT_HLL_138_BR_1_1	177.210852	17.08	7.52
3	OFF-PEAK	Line	138	22852_TELECYN_138_22772_SOUTHBAY_138_BR_1_1	177.210852	24.02	16.41
3	OFF-PEAK	Line	138	22192_DOUBLTTP_138_22300_FRIARS_138_BR_1_1	86.010288	21.1	18.66

3	OFF-PEAK	Line	138	22672_PRCTRVLY_138_22460_MIGUEL _138_BR_1_1	223.695192	19.76	13.73
3	OFF-PEAK	Line	138	22865_GRNT HLL_138_22772_SOUTHBAY_138_BR_1_1	177.210852	17.12	12.64
3	OFF-PEAK	Line	138	22500_MISSION _138_22865_GRNT HLL_138_BR_1_1	177.210852	16.91	12.44
4	OFF-PEAK	Line	138	22852_TELECYN _138_22772_SOUTHBAY_138_BR_1_1	177.210852	24.05	16.43
4	OFF-PEAK	Line	138	22192_DOUBLTTP_138_22300_FRIARS _138_BR_1_1	86.010288	21.05	18.6
4	OFF-PEAK	Line	138	22672_PRCTRVLY_138_22460_MIGUEL _138_BR_1_1	223.695192	19.81	13.77
4	OFF-PEAK	Line	138	22865_GRNT HLL_138_22772_SOUTHBAY_138_BR_1_1	177.210852	17.06	12.58
4	OFF-PEAK	Line	138	22500_MISSION _138_22865_GRNT HLL_138_BR_1_1	177.210852	16.82	12.34
1	OFF-PEAK	Line	115	33203_MISSON _115_33204_POTRERO _115_BR_1_1	79.508184	55.48	13.67
1	OFF-PEAK	Line	115	34774_MIDWAY _115_34816_NAVY 35R_115_BR_1_1	68.15802	49.09	48.63
1	OFF-PEAK	Line	115	31461_JESSTAP _115_31464_COTWDPGE_115_BR_1_1	45.457692	47.15	45.53
1	OFF-PEAK	Line	115	33568_TH.E.DV._115_33570_SPC JCT _115_BR_1_1	68.15802	46	6.97

1	OFF-PEAK	Line	115	33570_SPC JCT _115_33572_SP CMPNY_115_BR_1_1	68.15802	46	46
2	OFF-PEAK	Line	115	34817_SHL-KRVD_115_34722_KERN_RV_115_BR_1_1	28.518	66.27	39.76
2	OFF-PEAK	Line	115	33570_SPC JCT _115_33572_SP CMPNY_115_BR_1_1	68.15802	62.94	37.77
2	OFF-PEAK	Line	115	33568_TH.E.DV._115_33570_SPC JCT _115_BR_1_1	68.15802	62.87	9.55
2	OFF-PEAK	Line	115	33208_MARTIN C_115_33301_DLY CTYP_115_BR_2_1	75.686772	60.53	36.33
2	OFF-PEAK	Line	115	31464_COTWDPGE_115_31463_WHEELBR_115_BR_1_1	75.686772	59.93	35.95
3	OFF-PEAK	Line	115	34817_SHL-KRVD_115_34722_KERN_RV_115_BR_1_1	28.518	68.38	68.38
3	OFF-PEAK	Line	115	31464_COTWDPGE_115_31463_WHEELBR_115_BR_1_1	49.963536	67.91	67.91
3	OFF-PEAK	Line	115	32200_PEASE _115_32288_E.MRY J1_115_BR_1_1	49.963536	63.47	64.9
3	OFF-PEAK	Line	115	33570_SPC JCT _115_33572_SP CMPNY_115_BR_1_1	68.15802	62.8	62.8
3	OFF-PEAK	Line	115	33568_TH.E.DV._115_33570_SPC JCT _115_BR_1_1	68.15802	62.74	6.27
4	OFF-PEAK	Line	115	34817_SHL-KRVD_115_34722_KERN_RV_115_BR_1_1	28.518	69.08	69.08

4	OFF-PEAK	Line	115	33570_SPC JCT _115_33572_SP CMPNY_115_BR_1_1	68.15802	63.24	63.24
4	OFF-PEAK	Line	115	33568_TH.E.DV._115_33570_SPC JCT _115_BR_1_1	68.15802	63.2	18.96
4	OFF-PEAK	Line	115	32399_ULTRA JT_115_32403_ULTR-RCK_115_BR_1_1	17.624124	54.47	54.47
4	OFF-PEAK	Line	115	33208_MARTIN C_115_33301_DLY CTYP_115_BR_2_1	55.438992	52.63	52.64
1	OFF-PEAK	Line	70 kV and below	31555_MSS TAP2_60.0_31553_BIG BAR _60.0_BR_1_1	23.726976	33.9	34.21
1	OFF-PEAK	Line	70 kV and below	31093_HYMPOMJT_60.0_31553_BIG BAR _60.0_BR_1_1	23.726976	32.99	33.3
1	OFF-PEAK	Line	70 kV and below	31556_TRINITY _60.0_31555_MSS TAP2_60.0_BR_1_1	25.609164	31.41	31.69
1	OFF-PEAK	Line	70 kV and below	31580_CASCADE _60.0_31582_STLLWATR_60.0_BR_1_1	24.52548	28.03	31.19
1	OFF-PEAK	Line	70 kV and below	31092_MP CRK_60.0_31093_HYMPOMJT_60.0_BR_1_1	25.609164	27.77	28.06
2	OFF-PEAK	Line	70 kV and below	31110_BRDGVILLE_60.0_31112_FRUITLND_60.0_BR_1_1	25.609164	38.3	22.93
2	OFF-PEAK	Line	70 kV and below	31112_FRUITLND_60.0_31114_FRT SWRD_60.0_BR_1_1	25.609164	35.7	21.37
2	OFF-PEAK	Line	70 kV and below	31114_FRT SWRD_60.0_31116_GRBRVILLE_60.0_BR_1_1	25.609164	33.95	20.32

2	OFF-PEAK	Line	70 kV and below	31580_CASCADE _60.0_31582_STLLWATR_60.0_BR_1_1	24.52548	23.15	16.06
2	OFF-PEAK	Line	70 kV and below	31556_TRINITY_60.0_31555_MSS TAP2_60.0_BR_1_1	25.609164	21.24	13.03
3	OFF-PEAK	Line	70 kV and below	31110_BRDGVILLE_60.0_31112_FRUITLND_60.0_BR_1_1	17.96634	39.73	39.59
3	OFF-PEAK	Line	70 kV and below	31112_FRUITLND_60.0_31114_FRT SWRD_60.0_BR_1_1	17.96634	37.17	37.03
3	OFF-PEAK	Line	70 kV and below	31114_FRT SWRD_60.0_31116_GRBRVLE_60.0_BR_1_1	17.96634	34.62	34.48
3	OFF-PEAK	Line	70 kV and below	31580_CASCADE _60.0_31582_STLLWATR_60.0_BR_1_1	16.54044	22.04	25.98
3	OFF-PEAK	Line	70 kV and below	31556_TRINITY_60.0_31555_MSS TAP2_60.0_BR_1_1	17.96634	21.31	21.83
4	OFF-PEAK	Line	70 kV and below	31110_BRDGVILLE_60.0_31112_FRUITLND_60.0_BR_1_1	17.96634	32.01	31.96
4	OFF-PEAK	Line	70 kV and below	31112_FRUITLND_60.0_31114_FRT SWRD_60.0_BR_1_1	17.96634	29.9	29.85
4	OFF-PEAK	Line	70 kV and below	31114_FRT SWRD_60.0_31116_GRBRVLE_60.0_BR_1_1	17.96634	28.45	28.4
4	OFF-PEAK	Line	70 kV and below	31580_CASCADE _60.0_31582_STLLWATR_60.0_BR_1_1	16.54044	16.99	20.59
4	OFF-PEAK	Line	70 kV and below	31556_TRINITY_60.0_31555_MSS TAP2_60.0_BR_1_1	17.96634	16.45	16.93

1	OFF-PEAK	Transformer	500.0/230.0	30640_TESLA C _230_30040_TESLA _500_XF_6	639.94392	42.39	36.17
1	OFF-PEAK	Transformer	500.0/230.0	30970_MIDWAY _230_30060_MIDWAY _500_XF_12	639.94392	28.15	19.9
1	OFF-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_13	639.94392	27.18	27.89
1	OFF-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_12	682.15056	24.33	24.96
1	OFF-PEAK	Transformer	500.0/230.0	30750_MOSSLAND _230_30045_MOSSLAND_500_XF_9	704.96496	24.22	24.89
2	OFF-PEAK	Transformer	500.0/230.0	30640_TESLA C _230_30040_TESLA _500_XF_6	639.94392	40.75	24.41
2	OFF-PEAK	Transformer	500.0/230.0	30970_MIDWAY _230_30060_MIDWAY _500_XF_12	639.94392	30.41	18.29
2	OFF-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_13	639.94392	27.59	16.55
2	OFF-PEAK	Transformer	500.0/230.0	30750_MOSSLAND _230_30045_MOSSLAND_500_XF_9	704.96496	25.97	15.63
2	OFF-PEAK	Transformer	500.0/230.0	22464_MIGUEL _230_22468_MIGUEL _500_XF_81	638.8032	24.91	8.02
3	OFF-PEAK	Transformer	500.0/230.0	30640_TESLA C _230_30040_TESLA _500_XF_6	639.94392	40.46	40.43
3	OFF-PEAK	Transformer	500.0/230.0	30970_MIDWAY _230_30060_MIDWAY _500_XF_12	639.94392	34.77	34.85

3	OFF-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_13	639.94392	27.53	27.49
3	OFF-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_12	682.15056	24.64	24.6
3	OFF-PEAK	Transformer	500.0/230.0	22464_MIGUEL _230_22468_MIGUEL _500_XF_81	638.8032	24.61	13.21
4	OFF-PEAK	Transformer	500.0/230.0	30640_TESLA C _230_30040_TESLA _500_XF_6	639.94392	34.57	34.51
4	OFF-PEAK	Transformer	500.0/230.0	22464_MIGUEL _230_22468_MIGUEL _500_XF_81	638.8032	24.62	13.22
4	OFF-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_13	639.94392	23.62	23.63
4	OFF-PEAK	Transformer	500.0/230.0	30735_METCALF _230_30042_METCALF _500_XF_12	682.15056	21.14	21.15
4	OFF-PEAK	Transformer	500.0/230.0	30750_MOSSLD _230_30045_MOSSLAND_500_XF_9	704.96496	20.4	20.49
1	OFF-PEAK	Transformer	230.0/138.0	22460_MIGUEL _138_22464_MIGUEL _230_XF_61	223.58	16.75	11.65
1	OFF-PEAK	Transformer	230.0/138.0	22831_SYCAMORE_138_22832_SYCAMORE_230_XF_1	223.58	5.58	19.97
1	OFF-PEAK	Transformer	230.0/138.0	22652_PENSQTOS_230_22648_PENSQTOS_138_XF_1	223.58	4.17	6.61
1	OFF-PEAK	Transformer	230.0/138.0	22504_MISSION _230_22500_MISSION _138_XF_2	223.58	1.43	4.49

1	OFF-PEAK	Transformer	230.0/138.0	22504_MISSION_230_22500_MISSION_138_XF_1	223.58	1.43	4.49
2	OFF-PEAK	Transformer	230.0/138.0	22460_MIGUEL_138_22464_MIGUEL_230_XF_61	223.58	20.01	8.34
2	OFF-PEAK	Transformer	230.0/138.0	22831_SYCAMORE_138_22832_SYCAMORE_230_XF_1	223.58	6.64	14.34
2	OFF-PEAK	Transformer	230.0/138.0	22652_PENSQTOS_230_22648_PENSQTOS_138_XF_1	223.58	5.15	4.84
2	OFF-PEAK	Transformer	230.0/138.0	22504_MISSION_230_22500_MISSION_138_XF_2	223.58	1.83	3.3
2	OFF-PEAK	Transformer	230.0/138.0	22504_MISSION_230_22500_MISSION_138_XF_1	223.58	1.83	3.3
3	OFF-PEAK	Transformer	230.0/138.0	22460_MIGUEL_138_22464_MIGUEL_230_XF_61	223.58	19.77	13.74
3	OFF-PEAK	Transformer	230.0/138.0	22831_SYCAMORE_138_22832_SYCAMORE_230_XF_1	223.58	6.65	23.68
3	OFF-PEAK	Transformer	230.0/138.0	22652_PENSQTOS_230_22648_PENSQTOS_138_XF_1	223.58	5.13	8.01
3	OFF-PEAK	Transformer	230.0/138.0	22504_MISSION_230_22500_MISSION_138_XF_2	223.58	1.83	5.45
3	OFF-PEAK	Transformer	230.0/138.0	22504_MISSION_230_22500_MISSION_138_XF_1	223.58	1.83	5.45
4	OFF-PEAK	Transformer	230.0/138.0	22460_MIGUEL_138_22464_MIGUEL_230_XF_61	223.58	19.82	13.78

4	OFF-PEAK	Transformer	230.0/138.0	22831_SYCAMORE_138_22832_SYCAMORE_230_XF_1	223.58	6.64	23.69
4	OFF-PEAK	Transformer	230.0/138.0	22652_PENSQTOS_230_22648_PENSQTOS_138_XF_1	223.58	5.01	7.9
4	OFF-PEAK	Transformer	230.0/138.0	22504_MISSION_230_22500_MISSION_138_XF_2	223.58	1.74	5.36
4	OFF-PEAK	Transformer	230.0/138.0	22504_MISSION_230_22500_MISSION_138_XF_1	223.58	1.74	5.36
1	OFF-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP_230_XF_4	134.0346	29.3	25.8
1	OFF-PEAK	Transformer	230.0/115.0	31950_CORTINA_115_30450_CORTINA_230_XF_4	239.5512	22.09	20.8
1	OFF-PEAK	Transformer	230.0/115.0	33010_SOBRANTE_115_30540_SOBRANTE_230_XF_1	227.00328	21.38	23.34
1	OFF-PEAK	Transformer	230.0/115.0	24043_ELDORDO_115_24041_ELDORDO_230_XF_1A	58.17672	20.49	20.26
1	OFF-PEAK	Transformer	230.0/115.0	33010_SOBRANTE_115_30540_SOBRANTE_230_XF_2	227.00328	20.22	22.07
2	OFF-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP_230_XF_4	134.0346	34.55	20.74
2	OFF-PEAK	Transformer	230.0/115.0	36252_MORRO BY_115_30915_MORROBAY_230_XF_6	104.37588	28.43	17.05
2	OFF-PEAK	Transformer	230.0/115.0	24043_ELDORDO_115_24041_ELDORDO_230_XF_1A	58.17672	26.52	15.75

2	OFF-PEAK	Transformer	230.0/115.0	33000_CC SUB _115_30523_CC SUB _230_XF_3	68.4432	25.17	15.1
2	OFF-PEAK	Transformer	230.0/115.0	24602_VICTOR _115_24601_VICTOR _230_XF_1A	161.41188	24.77	14.88
3	OFF-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP _230_XF_4	134.0346	43.6	43.62
3	OFF-PEAK	Transformer	230.0/115.0	34158_PANOCHE _115_30790_PANOCHE _230_XF_2	178.52268	38.89	37.69
3	OFF-PEAK	Transformer	230.0/115.0	34158_PANOCHE _115_30790_PANOCHE _230_XF_1	68.4432	36.18	35.07
3	OFF-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP _230_XF_3	134.0346	28.78	28.79
3	OFF-PEAK	Transformer	230.0/115.0	24043_ELDORDO _115_24041_ELDORDO _230_XF_1A	58.17672	28.41	28.14
4	OFF-PEAK	Transformer	230.0/115.0	33000_CC SUB _115_30523_CC SUB _230_XF_3	68.4432	26.97	26.96
4	OFF-PEAK	Transformer	230.0/115.0	24043_ELDORDO _115_24041_ELDORDO _230_XF_1A	58.17672	26.79	26.52
4	OFF-PEAK	Transformer	230.0/115.0	24602_VICTOR _115_24601_VICTOR _230_XF_1A	161.41188	22.91	22.92
4	OFF-PEAK	Transformer	230.0/115.0	24602_VICTOR _115_24601_VICTOR _230_XF_2A	161.98224	22.91	22.92
4	OFF-PEAK	Transformer	230.0/115.0	34752_KERN PWR_115_30945_KERN PP _230_XF_4	134.0346	22.55	22.56

1	OFF-PEAK	Transformer	138 and below/69 and below	31080_HUMBOLDT_60.0_31000_HUMBOLDT_115_XF_2	21.3885	61.89	61.64
1	OFF-PEAK	Transformer	138 and below/69 and below	33375_CLY LNDG_60.0_33316_CLYLDG _115_XF_1	47.91024	19.59	23.17
1	OFF-PEAK	Transformer	138 and below/69 and below	22708_SANLUSRY_69.0_22712_SANLUSRY_138_XF_3	79.8504	13.02	17.13
2	OFF-PEAK	Transformer	138 and below/69 and below	31080_HUMBOLDT_60.0_31000_HUMBOLDT_115_XF_2	21.67368	27.14	16.21
2	OFF-PEAK	Transformer	138 and below/69 and below	33375_CLY LNDG_60.0_33316_CLYLDG _115_XF_1	47.91024	25.93	15.12
2	OFF-PEAK	Transformer	138 and below/69 and below	22708_SANLUSRY_69.0_22712_SANLUSRY_138_XF_3	79.8504	15.82	12.46
3	OFF-PEAK	Transformer	138 and below/69 and below	31080_HUMBOLDT_60.0_31000_HUMBOLDT_115_XF_2	21.67368	27.05	26.93
3	OFF-PEAK	Transformer	138 and below/69 and below	33375_CLY LNDG_60.0_33316_CLYLDG _115_XF_1	47.91024	17.07	19.28
3	OFF-PEAK	Transformer	138 and below/69 and below	22708_SANLUSRY_69.0_22712_SANLUSRY_138_XF_3	79.8504	15.73	20.63
4	OFF-PEAK	Transformer	138 and below/69 and below	33375_CLY LNDG_60.0_33316_CLYLDG _115_XF_1	47.91024	23.86	22.72

4	OFF-PEAK	Transformer	138 and below/69 and below	31080_HUMBOLDT_60.0_31000_HUMBOLDT_115_XF_2	21.67368	18.81	18.69
4	OFF-PEAK	Transformer	138 and below/69 and below	22708_SANLUSRY_69.0_22712_SANLUSRY_138_XF_3	79.8504	15.52	20.41

Table E-2: Comparison of loading levels of selected major transmission facilities by voltage level

Season	Time of Use	Interface Name	Export Rating (MW)	Import Rating (MW)	Before Project Addition		After Project Addition	
					Export Loading (%)	Import Loading (%)	Export Loading (%)	Import Loading (%)
1	ON-PEAK	ELDORADO_MSL	914.34	-852.03	-65.35	70.13	-65.35	70.13
1	ON-PEAK	HASSYAMPA_NGILA_TOR	949.62	-949.62	44.84	-8.47	48.09	-12.81
1	ON-PEAK	PACI_MSL	1,440.60	-1,126.70	37.09	75.37	19.52	50.25
1	ON-PEAK	PALOVRDE_MSL	1,956.86	-1,321.85	-26.25	69.36	-26.25	69.36
1	ON-PEAK	PATH15_BG	5,879.41	-3,175.20	-31.64	64.26	-31.26	63.54
1	ON-PEAK	PATH26_BG	2,352.00	-1,222.91	-5.80	11.15	-3.16	6.07
2	ON-PEAK	ELDORADO_MSL	914.34	-723.45	-68.24	86.24	-40.94	51.74
2	ON-PEAK	HASSYAMPA_NGILA_TOR	949.62	-949.62	55.76	-19.48	36.30	-15.19
2	ON-PEAK	PACI_MSL	1,440.60	-1,423.53	23.18	73.73	13.91	44.24
2	ON-PEAK	PALOVRDE_MSL	1,956.86	-1,436.68	-46.29	91.11	-27.77	54.67
2	ON-PEAK	PATH15_BG	5,879.41	-1,672.70	-21.59	86.66	-12.95	51.99
2	ON-PEAK	PATH26_BG	2,352.00	-1,087.80	-6.17	13.34	-3.70	8.00
3	ON-PEAK	ELDORADO_MSL	914.34	-790.68	-71.23	82.37	-71.23	82.37
3	ON-PEAK	HASSYAMPA_NGILA_TOR	949.62	-949.62	54.18	-17.82	59.14	-23.87
3	ON-PEAK	PACI_MSL	1,440.60	-1,579.84	6.74	81.43	6.74	81.43
3	ON-PEAK	PALOVRDE_MSL	1,956.86	-1,615.29	-38.26	71.31	-38.26	71.31
3	ON-PEAK	PATH15_BG	5,879.41	-1,894.64	-23.69	83.02	-23.69	83.00
3	ON-PEAK	PATH26_BG	2,352.00	-1,417.67	-0.93	1.54	-0.93	1.54
4	ON-PEAK	ELDORADO_MSL	914.34	-755.94	-68.76	83.17	-68.76	83.17
4	On-Peak	HASSYAMPA_NGILA_TOR	949.62	-949.62	58.63	-22.27	63.97	-28.69
4	On-Peak	PACI_MSL	1,440.60	-1,271.86	38.36	65.34	38.36	65.34
4	On-Peak	PALOVRDE_MSL	1,956.86	-1,804.99	-50.38	76.96	-50.38	76.96
4	On-Peak	PATH15_BG	5,879.41	-2,053.56	-27.91	88.67	-27.91	88.66
4	On-Peak	PATH26_BG	2,352.00	-456.62	-5.46	28.12	-5.46	28.12
1	Off-Peak	ELDORADO_MSL	914.34	-814.94	-65.31	73.28	-65.31	73.28
1	Off-Peak	HASSYAMPA_NGILA_TOR	949.62	-949.62	43.38	-7.02	46.87	-11.59
1	Off-Peak	PACI_MSL	1,440.60	-965.97	38.36	86.03	20.02	57.86
1	Off-Peak	PALOVRDE_MSL	1,956.86	-1,121.80	-24.48	78.64	-24.48	78.64
1	Off-Peak	PATH15_BG	5,879.41	-1,822.80	-27.94	100.00	-30.57	108.46
1	Off-Peak	PATH26_BG	2,352.00	-1,764.00	-2.43	3.23	-2.18	2.91
2	Off-Peak	ELDORADO_MSL	914.34	-735.59	-68.67	85.36	-41.20	51.22
2	Off-Peak	HASSYAMPA_NGILA_TOR	949.62	-949.62	50.32	-14.05	32.86	-11.75
2	Off-Peak	PACI_MSL	1,440.60	-1,503.08	22.44	70.55	13.46	42.33

2	Off-Peak	PALOVRDE_MSL	1,956.86	-1,234.28	-34.78	87.80	-20.87	52.68
2	Off-Peak	PATH15_BG	5,879.41	-1,595.80	-22.97	95.90	-13.78	57.53
2	Off-Peak	PATH26_BG	2,352.00	-938.41	-1.53	3.84	-0.92	2.31
3	Off-Peak	ELDORADO_MSL	914.34	-733.53	-75.29	93.85	-75.29	93.85
3	Off-Peak	HASSYAMPA_NGILA_TOR	949.62	-949.62	50.36	-14.00	54.74	-19.47
3	Off-Peak	PACI_MSL	1,440.60	-1,828.13	25.54	55.56	25.54	55.56
3	Off-Peak	PALOVRDE_MSL	1,956.86	-1,667.76	-34.48	64.64	-34.48	64.64
3	Off-Peak	PATH15_BG	5,879.41	-1,795.36	-24.90	91.57	-24.90	91.55
3	Off-Peak	PATH26_BG	2,352.00	-647.53	-1.50	5.46	-1.50	5.46
4	Off-Peak	ELDORADO_MSL	914.34	-746.51	-68.41	83.79	-68.41	83.79
4	Off-Peak	HASSYAMPA_NGILA_TOR	949.62	-949.62	49.54	-13.18	53.93	-18.65
4	Off-Peak	PACI_MSL	1,440.60	-1,270.69	35.74	68.37	35.74	68.37
4	Off-Peak	PALOVRDE_MSL	1,956.86	-1,708.82	-33.75	62.25	-33.75	62.25
4	Off-Peak	PATH15_BG	5,879.41	-2,058.00	-25.15	80.60	-25.15	80.59
4	Off-Peak	PATH26_BG	2,352.00	-441.46	-0.41	2.18	-0.41	2.18