

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E_PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|--|------------------------------|--|-----|---------|---------|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | | | | pre10hs17.sav | pst10l_00.sav | pst10l_05.sav | pst10l_10.sav | pst10l_15.sav | pst10l_20.sav |
| APT TAP2 | 115.00-APT MEM 115.00 #1 1 | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 497.02 | 497.02 | Amps | 100.65 | | | | | |
| | | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 497.02 | 497.02 | Amps | | | | | | 100.19 |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 497.02 | 497.02 | Amps | 101.76 | | | | | |
| APT TAP2 | 115.00-DOT TAP 115.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 497.02 | 497.02 | Amps | | | | | | 100.19 |
| AUSTIN N | 115.00-DYER 115.00 #1 1 | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 590.91 | 800.26 | Amps | 101.63 | 100.13 | 100.38 | 100.95 | | |
| BELEN_PG | 115.00-BERNARDO 115.00 #1 1 | Open Line FT.CRAIG 345.00-ARROYO 345.00 #1 | 369 | 392.1 | 392.1 | Amps | | 118.37 | 122.22 | 126.55 | 130.54 | |
| BERNARDO | 115.00-SOCORROP 115.00 #1 1 | Open Line FT.CRAIG 345.00-ARROYO 345.00 #1 | 369 | 392.1 | 392.1 | Amps | | 112.68 | 116.53 | 120.84 | 124.84 | |
| BIGGS | 115.00-NEWMAN 115.00 #1 1 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 590.91 | 800.26 | Amps | 101.27 | 102.29 | 102.49 | 102.81 | 102.47 | 101.91 |
| COPPERVR | 345.00-COPPERVR 230.00 #1 0 | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 200 | 224 | MVA | 106.45 | 106.22 | 106.33 | 106.52 | 106.45 | 106.57 |
| | | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 200 | 224 | MVA | 134.88 | 129.51 | 130.91 | 132.36 | 134.45 | 139.02 |
| | | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 200 | 224 | MVA | 101.38 | | | | 101.01 | 105.73 |
| | | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 200 | 224 | MVA | 134.3 | 128.94 | 130.33 | 131.77 | 133.87 | 138.43 |
| | | Open Line MORENCI 230.00-PD-MORNC 230.00 #1 | 51 | 200 | 224 | MVA | 100.59 | 100.49 | 100.53 | 100.61 | 100.58 | 100.64 |
| DANIELPK | 345.00-DANIELPK 230.00 #1 0 | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 560 | 560 | MVA | | 101.04 | 101.04 | 101.19 | 101.04 | 101.57 |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 560 | 560 | MVA | | 101.04 | 101.04 | 101.19 | 101.04 | 101.57 |
| DOT TAP | 115.00-BOONE 115.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 497.02 | 497.02 | Amps | | | | | | 102.76 |
| EAST_TAP | 115.00-LAWRNCET 115.00 #1 1 | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 783.19 | 798.25 | Amps | | 101.12 | 101.6 | 102.04 | 101.93 | 102.22 |
| EL_BUTTE | 115.00-PICACHO 115.00 #1 1 | Open Line FT.CRAIG 345.00-ARROYO 345.00 #1 | 369 | 200.82 | 200.82 | Amps | | 107.18 | 110.87 | 115.04 | 118.84 | |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #1 1 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1499.44 | 1650.05 | Amps | 124.03 | 120.44 | 124.78 | 129.75 | 134.51 | 138.98 |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #1 2 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1250.09 | 1680.17 | Amps | 121.81 | 118.28 | 122.54 | 127.43 | 132.1 | 136.48 |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #2 1 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1999.97 | 1999.97 | Amps | 102.32 | | 102.94 | 107.05 | 110.97 | 114.66 |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #2 2 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1250.09 | 1680.17 | Amps | 121.8 | 118.27 | 122.53 | 127.42 | 132.1 | 136.48 |
| FOURC1AA | 100.00-FOURCORN 500.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116 | 118.35 | 111.46 | 103.66 | | |
| FOURCORN | 345.00-FOURC1AA 100.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116.47 | 118.87 | 111.96 | 104.14 | | |
| FTLUPTON | 230.00-FTLUPTON 115.00 #T3 0 | Open Line ARAPAHOE 230.00-SANTEFE 230.00 #1 | 212 | 280 | 280 | MVA | 103.36 | 104.38 | 105.39 | 106.58 | 107.68 | 110.84 |
| | | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 280 | 280 | MVA | 103.2 | 104.26 | 105.29 | 106.51 | 107.64 | 110.82 |
| | | Open Line B.SANDY 500.00-BOONE 500.00 #1 | 377 | 280 | 280 | MVA | | 104.17 | 105.37 | 106.8 | 108.15 | 111.54 |
| | | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 280 | 280 | MVA | 105.45 | 106.41 | 107.48 | 108.74 | 109.9 | 113.15 |
| | | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 280 | 280 | MVA | 106.26 | 107.21 | 108.28 | 109.54 | 110.7 | 113.96 |
| | | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 280 | 280 | MVA | | 104.12 | 105.29 | 106.68 | 108.06 | 111.58 |
| | | Open Line BRICKCTR 345.00-DANIELPK 345.00 #1 | 162 | 280 | 280 | MVA | 102.97 | 104.03 | 105.08 | 106.33 | 107.48 | 110.7 |
| | | Open Line BRICKCTR 345.00-DANIELPK 345.00 #2 | 163 | 280 | 280 | MVA | 102.97 | 104.03 | 105.08 | 106.33 | 107.48 | 110.7 |
| | | Open Line BUCKLY34 230.00-SMOKYHIL 230.00 #1 | 213 | 280 | 280 | MVA | 103.72 | 104.73 | 105.76 | 106.99 | 108.11 | 111.3 |
| | | Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | 214 | 280 | 280 | MVA | 103.71 | 104.73 | 105.76 | 106.98 | 108.11 | 111.3 |
| | | Open Line CHATFLD 230.00-WATERTON 230.00 #1 | 226 | 280 | 280 | MVA | 103.33 | 104.33 | 105.33 | 106.52 | 107.62 | 110.77 |
| | | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 280 | 280 | MVA | 107.3 | 108.51 | 109.8 | 111.32 | 112.74 | 116.3 |
| | | Open Line CHEROKEE 230.00-LACOMBE 230.00 #1 | 228 | 280 | 280 | MVA | 103.67 | 104.69 | 105.76 | 107.04 | 108.22 | 111.47 |
| | | Open Line CHEROKEE 230.00-RIDGE 230.00 #1 | 229 | 280 | 280 | MVA | 103.05 | 104.06 | 105.12 | 106.37 | 107.53 | 110.75 |
| | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 280 | 280 | MVA | 107.33 | 108.48 | 109.69 | 111.12 | 112.45 | 115.91 |
| | | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 280 | 280 | MVA | 105.39 | 106.35 | 107.41 | 108.67 | 109.84 | 113.09 |
| | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 280 | 280 | MVA | 103.27 | 104.55 | 105.55 | 106.73 | 107.82 | 110.96 |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 280 | 280 | MVA | 103.84 | 105.27 | 106.26 | 107.44 | 108.52 | 111.67 |
| | | Open Line DANIELPK 230.00-BRICKCTR 230.00 #1 | 240 | 280 | 280 | MVA | | | | | | 110.5 |
| | | Open Line DANIELPK 230.00-SANTEFE 230.00 #1 | 239 | 280 | 280 | MVA | 103.46 | 104.48 | 105.49 | 106.68 | 107.78 | 110.93 |
| | | Open Line DAVEJOHN 230.00-DIFICULT 230.00 #1 | 131 | 280 | 280 | MVA | | | | | 107.36 | |
| | | Open Line DENVTM 230.00-LACOMBE 230.00 #1 | 243 | 280 | 280 | MVA | 103.28 | 104.32 | 105.39 | 106.66 | 107.84 | 111.08 |
| | | Open Line EGYCNR 500.00-BOONE 500.00 #1 | 202 | 280 | 280 | MVA | 104.22 | 104.24 | 105.33 | 106.64 | 107.83 | 111.13 |
| Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 280 | 280 | MVA | 111.58 | 112.7 | 113.91 | 115.36 | 116.69 | 120.21 | | |
| Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 280 | 280 | MVA | 115.61 | 116.75 | 118.05 | 119.59 | 121.02 | 124.71 | | |
| Open Line FULLER 230.00-DANIELPK 230.00 #1 | 307 | 280 | 280 | MVA | 102.93 | | | | | | | |
| Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 280 | 280 | MVA | 110.97 | 112.15 | 113.44 | 114.98 | 116.4 | 120.02 | | |
| Open Line GREENVAL 230.00-FTLUPTON 230.00 #1 | 217 | 280 | 280 | MVA | 104.66 | 106.29 | 107.56 | 109.05 | 110.45 | 113.87 | | |
| Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 280 | 280 | MVA | 103.95 | 104.96 | 106.01 | 107.26 | 108.41 | 111.64 | | |
| Open Line GREENVAL 230.00-SKYRANCH 230.00 #1 | 218 | 280 | 280 | MVA | 103.7 | 104.72 | 105.77 | 107.01 | 108.15 | 111.37 | | |

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|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E.PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|---|------------------------------|---|-----|--------|--------|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | | | | pre10hs17.sav | pst101_00.sav | pst101_05.sav | pst101_10.sav | pst101_15.sav | pst101_20.sav |
| FTLUPTON | 230.00-FTLUPTON 115.00 #T3 0 | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 280 | 280 | MVA | 104.44 | 105.44 | 106.5 | 107.76 | 108.93 | 112.17 |
| | | Open Line GREENVAL 230.00-ST.VRAIN 230.00 #1 | 219 | 280 | 280 | MVA | 103.34 | 104.41 | 105.49 | 106.76 | 107.95 | 111.19 |
| | | Open Line GREENWD 230.00-MONACO12 230.00 #1 | 256 | 280 | 280 | MVA | 103.42 | 104.42 | 105.42 | 106.61 | 107.71 | 110.86 |
| | | Open Line JEWELL2 230.00-TOLGATE 230.00 #1 | 260 | 280 | 280 | MVA | 103.01 | 104.03 | 105.06 | 106.28 | 107.41 | 110.6 |
| | | Open Line LEETSDAL 230.00-MONACO12 230.00 #1 | 263 | 280 | 280 | MVA | 103.27 | 104.28 | 105.28 | 106.47 | 107.56 | 110.72 |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 153 | 280 | 280 | MVA | 103.89 | 104.89 | 106.09 | 107.51 | 108.82 | 112.21 |
| | | Open Line LEGGETT 230.00-NIWOT 230.00 #1 | 264 | 280 | 280 | MVA | 105.72 | 106.71 | 107.9 | 109.32 | 110.64 | 114.06 |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 265 | 280 | 280 | MVA | 103.89 | 104.89 | 106.09 | 107.51 | 108.82 | 112.21 |
| | | Open Line MEADOWHIL 230.00-SMOKYHIL 230.00 #1 | 270 | 280 | 280 | MVA | 103.02 | 104.05 | 105.09 | 106.32 | 107.45 | 110.65 |
| | | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 280 | 280 | MVA | 103.09 | 104.06 | 105.11 | 106.36 | 107.51 | 110.73 |
| | | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 280 | 280 | MVA | | 103.99 | 105.01 | 106.21 | 107.32 | |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 280 | 280 | MVA | 103.58 | 104.66 | 105.64 | 106.79 | 107.86 | 110.97 |
| | | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 280 | 280 | MVA | 108.16 | 109.12 | 110.32 | 111.73 | 113.05 | 116.49 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 280 | 280 | MVA | 105.55 | 106.44 | 107.57 | 108.9 | 110.13 | 113.43 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 280 | 280 | MVA | 105.55 | 106.44 | 107.57 | 108.9 | 110.13 | 113.43 |
| | | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 280 | 280 | MVA | | 105.02 | 105.02 | 106.8 | 108.47 | 112.08 |
| | | Open Line QUINCY 230.00-BRICKCTR 230.00 #1 | 275 | 280 | 280 | MVA | 103.26 | 104.27 | 105.3 | 106.51 | 107.63 | 110.8 |
| | | Open Line QUINCY 230.00-SMOKYHIL 230.00 #1 | 274 | 280 | 280 | MVA | 103.24 | 104.25 | 105.28 | 106.49 | 107.62 | 110.79 |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 280 | 280 | MVA | 110.18 | 111.3 | 112.52 | 113.96 | 115.29 | 118.79 |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 280 | 280 | MVA | 103.06 | 104.05 | 105.07 | 106.3 | 107.43 | 110.62 |
| | | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 280 | 280 | MVA | 105.85 | 106.81 | 107.87 | 109.14 | 110.3 | 113.55 |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 277 | 280 | 280 | MVA | 103.56 | 104.58 | 105.63 | 106.87 | 108.01 | 111.23 |
| | | Open Line SKYRANCT 230.00-IMBODEN 230.00 #1 | 278 | 280 | 280 | MVA | 103.9 | 104.91 | 105.96 | 107.21 | 108.36 | 111.59 |
| | | Open Line SKYRANCT 230.00-SPRUCE 230.00 #1 | 279 | 280 | 280 | MVA | 103.9 | 104.91 | 105.97 | 107.21 | 108.37 | 111.59 |
| | | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 280 | 280 | MVA | 103.66 | 104.68 | 105.73 | 106.97 | 108.12 | 111.34 |
| | | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 280 | 280 | MVA | 103.68 | 104.7 | 105.75 | 106.99 | 108.14 | 111.36 |
| | | Open Line SODALAKE 230.00-CHATFLD 230.00 #1 | 209 | 280 | 280 | MVA | 102.91 | | | | | |
| | | Open Line SPRUCE 230.00-CHAMBERS 230.00 #1 | 300 | 280 | 280 | MVA | 102.92 | 103.96 | 104.98 | 106.2 | 107.32 | 110.5 |
| | | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 280 | 280 | MVA | 103.7 | 104.71 | 105.76 | 107 | 108.15 | 111.37 |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 280 | 280 | MVA | 108.36 | 109.32 | 110.52 | 111.93 | 113.25 | 116.69 |
| | | Open Line ST.VRAIN 230.00-SPNDLE 230.00 #1 | 286 | 280 | 280 | MVA | 107.55 | 108.54 | 109.89 | 111.5 | 112.99 | 116.62 |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 280 | 280 | MVA | 117.58 | 118.49 | 119.86 | 121.49 | 123 | 126.73 |
| | | Open Line WASHINGTON 230.00-JLGREEN 230.00 #1 | 294 | 280 | 280 | MVA | 114.9 | 116.05 | 117.35 | 118.89 | 120.31 | 124 |
| | | Open Xfmr ARAPAHOB 115.00/ARAPAHOE 230.00 #T5 | 311 | 280 | 280 | MVA | 103.65 | 104.7 | 105.72 | 106.92 | 108.04 | 111.22 |
| | | Open Xfmr BRICKCTR 115.00/BRICKCTR 230.00 #T1 | 351 | 280 | 280 | MVA | 102.96 | 103.98 | 105.01 | 106.22 | 107.35 | 110.52 |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #1 | 349 | 280 | 280 | MVA | 102.92 | | 104.97 | 106.19 | 107.32 | 110.49 |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #2 | 350 | 280 | 280 | MVA | 102.92 | | 104.97 | 106.19 | 107.32 | 110.49 |
| | | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 280 | 280 | MVA | 105.92 | 106.93 | 107.97 | 109.2 | 110.33 | 113.56 |
| Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A1 | 312 | 280 | 280 | MVA | 104.3 | 105.37 | 106.41 | 107.63 | 108.76 | 111.97 | | |
| Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A2 | 313 | 280 | 280 | MVA | 104.29 | 105.36 | 106.4 | 107.62 | 108.75 | 111.96 | | |
| Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 280 | 280 | MVA | 103.12 | 104.15 | 105.18 | 106.39 | 107.51 | 110.68 | | |
| Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 280 | 280 | MVA | 103.12 | 104.15 | 105.18 | 106.39 | 107.51 | 110.68 | | |
| Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 280 | 280 | MVA | 103.12 | 104.15 | 105.18 | 106.39 | 107.51 | 110.68 | | |
| Open Xfmr DENVTM 115.00/DENVTM 230.00 #T2 | 322 | 280 | 280 | MVA | 103.7 | 104.75 | 105.77 | 106.97 | 108.08 | 111.26 | | |
| Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 280 | 280 | MVA | 103.02 | 104.04 | 105.07 | 106.29 | 107.42 | 110.61 | | |
| Open Xfmr LEETSDAL 115.00/LEETSDAL 230.00 #T4 | 324 | 280 | 280 | MVA | 104.34 | 105.38 | 106.39 | 107.58 | 108.67 | 111.85 | | |
| Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 280 | 280 | MVA | 103.43 | 104.5 | 105.48 | 106.64 | 107.71 | 110.82 | | |
| Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #1 | 329 | 280 | 280 | MVA | 103 | 104.03 | 105.07 | 106.3 | 107.44 | 110.63 | | |
| Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #2 | 331 | 280 | 280 | MVA | 103 | 104.03 | 105.07 | 106.3 | 107.44 | 110.63 | | |
| Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #3 | 330 | 280 | 280 | MVA | 103 | 104.03 | 105.07 | 106.3 | 107.44 | 110.63 | | |
| Open Xfmr RIDGE 115.00/RIDGE 230.00 #T1 | 332 | 280 | 280 | MVA | 103.25 | 104.29 | 105.31 | 106.52 | 107.64 | 110.81 | | |
| Open Xfmr RIDGE 115.00/RIDGE 230.00 #T2 | 333 | 280 | 280 | MVA | 103.26 | 104.3 | 105.32 | 106.53 | 107.65 | 110.82 | | |
| Open Xfmr SODALAKE 115.00/SODALAKE 230.00 #T2 | 336 | 280 | 280 | MVA | 103.17 | 104.2 | 105.22 | 106.43 | 107.55 | 110.72 | | |
| Open Xfmr VALMONT 115.00/VALMONT 230.00 #T1 | 338 | 280 | 280 | MVA | 105.82 | 106.88 | 107.93 | 109.17 | 110.31 | 113.53 | | |

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|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E_PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|-------|---------------------------------------|---|-----|---------|---------|------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | | | | pre10hs17.sav | pst101_00.sav | pst101_05.sav | pst101_10.sav | pst101_15.sav | pst101_20.sav |
| | FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T2 | 339 | 280 | 280 | MVA | 105.82 | 106.88 | 107.93 | 109.17 | 110.31 | 113.53 |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 280 | 280 | MVA | 103.52 | 104.6 | 105.58 | 106.73 | 107.8 | 110.9 |
| | GLADSTON 115.00-SPRINGER 115.00 #1 1 | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 599.94 | 599.94 | Amps | | | | 110.46 | 126.94 | 156.33 |
| | | Open Line B-A 345.00-NORTON 345.00 #1 | 85 | 599.94 | 599.94 | Amps | | | | | 109.14 | 130.2 |
| | | Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | 599.94 | 599.94 | Amps | | | | | 100.97 | 123.26 |
| | | Open Line CF&FURN 230.00-COMANCHE 230.00 #1 | 145 | 599.94 | 599.94 | Amps | | | | | 102.81 | 125.14 |
| | | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 599.94 | 599.94 | Amps | | | | | 104.03 | 124.16 |
| | | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 599.94 | 599.94 | Amps | | | | 111.58 | 131.58 | 164.71 |
| | | Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | 599.94 | 599.94 | Amps | | | | | 101.64 | 124.41 |
| | | Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | 599.94 | 599.94 | Amps | | | | | 101.66 | 124.46 |
| | | Open Line DAVEJOHN 230.00-DIFICULT 230.00 #1 | 131 | 599.94 | 599.94 | Amps | | | | | 102.67 | |
| | | Open Line FOURCORN 500.00-FCW 500.00 #1 | 66 | 599.94 | 599.94 | Amps | | | | | 100.24 | |
| | | Open Line FT.CRAIG 345.00-ARROYO 345.00 #1 | 369 | 599.94 | 599.94 | Amps | | | | | 101.52 | 121.79 |
| | | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 599.94 | 599.94 | Amps | | | | | 101.77 | 123.74 |
| | | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 599.94 | 599.94 | Amps | | | | | 104.4 | 124.54 |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 599.94 | 599.94 | Amps | | 120.44 | 154.99 | 195.3 | | |
| | | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 599.94 | 599.94 | Amps | | | | 111.96 | 132.67 | 165.71 |
| | | Open Line HIDALGO 345.00-GREENLEE 345.00 #1 | 99 | 599.94 | 599.94 | Amps | | | | | | 120.55 |
| | | Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | 599.94 | 599.94 | Amps | | | | | 101.21 | 123.96 |
| | | Open Line OJO 345.00-TAOS 345.00 #1 | 92 | 599.94 | 599.94 | Amps | | | | | 107.2 | 125.38 |
| | | Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | 599.94 | 599.94 | Amps | | | | | 101.04 | 123.71 |
| | | Open Line SAN_JUAN 345.00-OJO 345.00 #1 | 358 | 599.94 | 599.94 | Amps | | | 106.36 | 118.66 | 128.85 | 145.63 |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 599.94 | 599.94 | Amps | | | | | 104.28 | 127.22 |
| | | Open Line SPRINGR 345.00-CORONADO 345.00 #1 | 32 | 599.94 | 599.94 | Amps | | | | | | 120.81 |
| | | Open Line SPRINGR 500.00-SES 500.00 #1 | 383 | 599.94 | 599.94 | Amps | | | | | 100.28 | 120.83 |
| | | Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 599.94 | 599.94 | Amps | | | | | 102.13 | 125.46 |
| | | Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | 599.94 | 599.94 | Amps | | | | | 107.49 | 131.77 |
| | | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 599.94 | 599.94 | Amps | | | | | 115.3 | 138.39 |
| | GLADSTON 230.00-GLADSTON 115.00 #1 0 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 200 | 200 | MVA | | | | | | 105.99 |
| | GLADSTON 230.00-GLADSTON 115.00 #2 0 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 200 | 200 | MVA | | | | | | 105.99 |
| | GLENCANY 345.00-FLAGSTAF 345.00 #1 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1999.97 | 1999.97 | Amps | 103.13 | 100.12 | 103.79 | 107.98 | 112.01 | 115.78 |
| | GLENCANY 345.00-FLAGSTAF 345.00 #1 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1840.83 | 2024.91 | Amps | 101.86 | | 102.51 | 106.65 | 110.63 | 114.35 |
| | GLENCANY 345.00-FLAGSTAF 345.00 #2 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1250.09 | 1680.17 | Amps | 122.54 | 118.95 | 123.32 | 128.31 | 133.11 | 137.59 |
| | GLENCANY 345.00-FLAGSTAF 345.00 #2 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1840.83 | 2024.91 | Amps | 101.68 | | 102.32 | 106.46 | 110.45 | 114.17 |
| | GR 115.00-VISTA # 115.00 #1 1 | Open Line CALIENTE 345.00-NC1 345.00 #1 | 74 | 590.91 | 800.26 | Amps | 149.06 | 153.56 | 154.07 | 154.74 | 154.45 | 152.4 |
| | GREEN-AE 345.00-GREEN-AE 230.00 #1 0 | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 150 | 193 | MVA | 108.88 | 108.62 | 108.75 | 108.96 | 108.88 | 109.01 |
| | | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 150 | 193 | MVA | 156.07 | 149.81 | 151.44 | 153.12 | 155.58 | 160.93 |
| | | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 150 | 193 | MVA | 155.75 | 149.47 | 151.1 | 152.79 | 155.25 | 160.61 |
| | | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 150 | 193 | MVA | 103.75 | | | 100.19 | 103.27 | 109.07 |
| | | Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 150 | 193 | MVA | 132.42 | 125.98 | 127.65 | 129.4 | 131.9 | 137.36 |
| | | Open Line RED TAIL 230.00-DOSCONDO 230.00 #1 | 55 | 150 | 193 | MVA | | | | | | 100.01 |
| | JLGREEN 230.00-FTLUPTON 230.00 #1 1 | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 1242.56 | 1242.56 | Amps | | | | | | 101.93 |
| | | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 1242.56 | 1242.56 | Amps | | | | | 101.29 | 104.4 |
| | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 1242.56 | 1242.56 | Amps | | | | | 100.95 | 104.39 |
| | | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 1242.56 | 1242.56 | Amps | | | | | | 101.75 |
| | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 1242.56 | 1242.56 | Amps | 100.01 | 101.52 | 103.75 | 106.47 | 108.94 | 112.41 |
| | | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 1242.56 | 1242.56 | Amps | | | | | | 100.84 |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 1242.56 | 1242.56 | Amps | | | 101.11 | 103.82 | 106.29 | 109.75 |
| | | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 1242.56 | 1242.56 | Amps | | | | | 100.05 | 103.15 |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 1242.56 | 1242.56 | Amps | | | | | | 101.12 |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1242.56 | 1242.56 | Amps | | | | | 101.47 | 104.87 |
| | | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 1242.56 | 1242.56 | Amps | | | | | 101.73 | 104.94 |
| | LAMAR CO 230.00-LAMAR CO 115.00 #1 0 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 100 | 100 | MVA | 113.06 | 106.06 | 107.15 | 108.2 | 108.61 | 111.34 |
| | | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 100 | 100 | MVA | 112.15 | | | | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E_PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|---|---|--|---------|---------|---------|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | | | | pre10hs17.sav | pst101_00.sav | pst101_05.sav | pst101_10.sav | pst101_15.sav | pst101_20.sav |
| L | LAMAR CO 230.00-LAMAR CO 115.00 #1 0 | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 100 | 100 | MVA | 129.81 | 121.1 | 121.79 | 122.42 | 122.27 | 124.99 |
| | | Open Line B.SANDY 500.00-BOONE 500.00 #1 | 377 | 100 | 100 | MVA | | 107.37 | 109.19 | 111.21 | 112.72 | 116.54 |
| | | Open Line BOONE 230.00-LAMAR CO 230.00 #1 | 143 | 100 | 100 | MVA | 123.95 | 115.6 | 117.03 | 118.65 | 119.46 | 123.28 |
| | | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 100 | 100 | MVA | | 108.95 | 110.8 | 112.66 | 114.51 | 118.5 |
| | | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 100 | 100 | MVA | 113.3 | | | | | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 100 | 100 | MVA | 130.71 | 121.69 | 122.4 | 123.12 | 122.99 | 125.96 |
| | | Open Line BURLNGTN 500.00-BURLSC1 500.00 #1 | 199 | 100 | 100 | MVA | 114.11 | 108.63 | 109.69 | 110.85 | 111.2 | 114.05 |
| | | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 100 | 100 | MVA | 117.36 | 111.16 | 111.78 | 112.33 | 112.12 | 114.25 |
| | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 100 | 100 | MVA | 115.72 | 109.59 | 110.78 | 112.14 | 112.52 | 115.91 |
| | | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 100 | 100 | MVA | | 106.18 | | | | |
| | | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 100 | 100 | MVA | 148.42 | 122.47 | 124.81 | 127.52 | 129.42 | 134.29 |
| | | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 100 | 100 | MVA | 118.07 | 111.65 | 112.28 | 112.83 | 112.63 | 115.05 |
| | | Open Line FTLUPTON 230.00-PAWNEE 230.00 #1 | 247 | 100 | 100 | MVA | | | | | | 111.03 |
| | | Open Line FTLUPTON 230.00-PAWNEE 230.00 #2 | 248 | 100 | 100 | MVA | | | | | | 111.03 |
| | | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 100 | 100 | MVA | 114.26 | 106.04 | 107.12 | 108.17 | 108.55 | 111.32 |
| | | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 100 | 100 | MVA | 114.03 | 106.61 | 107.77 | 108.92 | 109.42 | 112.28 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 100 | 100 | MVA | 112.04 | 106.52 | 107.66 | 108.78 | 109.27 | 112.12 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 100 | 100 | MVA | 112.04 | 106.52 | 107.66 | 108.78 | 109.27 | 112.12 |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 100 | 100 | MVA | | | | | | 111.27 |
| | | Open Xfmr BOONE 115.00/BOONE 230.00 #1 | 355 | 100 | 100 | MVA | 132.57 | 121.9 | 122.69 | 123.79 | 124.39 | 126.84 |
| Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A1 | 314 | 100 | 100 | MVA | 112.93 | 106.78 | 107.88 | 108.96 | 109.38 | 112.2 | | |
| Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A2 | 315 | 100 | 100 | MVA | 112.96 | 106.81 | 107.91 | 108.98 | 109.4 | 112.23 | | |
| Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 100 | 100 | MVA | | | | | | 111.21 | | |
| Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 100 | 100 | MVA | | 106.38 | 107.42 | 108.4 | 108.7 | 111.37 | | |
| Open Xfmr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | 100 | 100 | MVA | | 106.65 | 108.02 | 109.54 | 110.19 | 113.74 | | |
| LAR.RIVR 345.00-AULT 345.00 #1 1 | Open Line LAR.RIVR 500.00-PAWNEE 500.00 #1 | 414 | 1599.85 | 1599.85 | Amps | | | | | | 116.84 | |
| LAR.RIVR 500.00-LAR.RIVR 345.00 #1 0 | Open Line LAR.RIVR 500.00-PAWNEE 500.00 #1 | 414 | 840 | 1200 | MVA | | | | | | 105.26 | |
| LUDLOTAP 115.00-WALSENBG 115.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 350.93 | 350.93 | Amps | | | | | | 105.6 | |
| LUNA 345.00-LUNA 115.00 #1 0 | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 224 | 224 | MVA | 103.32 | | | | | | |
| M | MIDWAYBR 230.00-RD_NIXON 230.00 #1 1 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 1209.93 | 1209.93 | Amps | 107.23 | | | | | |
| | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 1209.93 | 1209.93 | Amps | 102.84 | | | | | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 1209.93 | 1209.93 | Amps | 103.46 | | | | | |
| | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 1209.93 | 1209.93 | Amps | 100.33 | | | | | |
| | | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 1209.93 | 1209.93 | Amps | 101.87 | | | | | |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 1209.93 | 1209.93 | Amps | 110.63 | | | | | |
| | | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 1209.93 | 1209.93 | Amps | 101.08 | | | | | |
| Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 1209.93 | 1209.93 | Amps | 103.43 | | | | | | | |
| MURPHY 230.00-SMOKYHIL 230.00 #1 1 | Open Line DANIELPK 230.00-SURREYRG 230.00 #1 | 235 | 853.47 | 853.47 | Amps | | | | | | 100.02 | |
| NEWMAN 115.00-NEWMAN_B 345.00 #1 0 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 101.84 | 113.66 | 115.11 | 116.92 | 114.95 | 109.57 | |
| NEWMAN_B 345.00-NEWMAN 345.00 #1 0 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 100.98 | 112.55 | 113.9 | 115.53 | 113.92 | 108.66 | |
| OJO 345.00-OJO 115.00 #1 0 | Open Line FOURCORN 345.00-WESTMESA 345.00 #1 | 357 | 180 | 180 | MVA | 103.46 | | | | | | |
| | Open Line OJO 345.00-TAOS 345.00 #1 | 92 | 180 | 180 | MVA | 107.42 | | | | | | |
| P.VALLEY 115.00-TODD CRE 115.00 #1 1 | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 676.75 | 676.75 | Amps | 105.04 | 104.81 | 104.73 | 104.7 | 104.62 | 104.53 | |
| PINPK 230.00-PNPKAPS 230.00 #1 1 | Open Line RACEWAY 500.00-PNPKAPS 500.00 #1 | 109 | 1691.89 | 1998.13 | Amps | 113.5 | | | | | | |
| PNPKAPS 230.00-PINPK 230.00 #1 1 | Open Line RACEWAY 500.00-PNPKAPS 500.00 #1 | 109 | 1691.89 | 1998.13 | Amps | | 113.73 | 114.21 | 113.76 | 114.38 | 114.39 | |
| PORTLAND 115.00-W.STATON 115.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 401.63 | 401.63 | Amps | | | | | | 136.33 | |
| RD_NIXON 230.00-MIDWAYBR 230.00 #1 1 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 1209.93 | 1209.93 | Amps | | 100.38 | | | | | |
| | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 1209.93 | 1209.93 | Amps | 100.29 | | | | | | |
| | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 1209.93 | 1209.93 | Amps | 100.61 | | | | | | |
| | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 1209.93 | 1209.93 | Amps | 100.79 | | | | | | |
| | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 1209.93 | 1209.93 | Amps | 105.68 | | | | | | |
| | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 1209.93 | 1209.93 | Amps | | 102.78 | 101.57 | 100.35 | | | |
| | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 1209.93 | 1209.93 | Amps | 100.21 | | | | | | |
| Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 1209.93 | 1209.93 | Amps | 135.27 | 126.72 | 124.82 | 122.74 | 120.34 | 118.65 | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E_PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|----------|-----------------------------|---|-----|---------|---------|------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | | | | pre10hs17.sav | pst101_00.sav | pst101_05.sav | pst101_10.sav | pst101_15.sav | pst101_20.sav |
| RD_NIXON | 230.00-MIDWAYBR 230.00 #1 1 | Open Line MIDWAYPS 230.00-MIDWAYBR 230.00 #1 | 156 | 1209.93 | 1209.93 | Amps | 104.59 | | | | | |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 1209.93 | 1209.93 | Amps | 108.19 | 100.55 | | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 1209.93 | 1209.93 | Amps | 100.35 | | | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 1209.93 | 1209.93 | Amps | 100.35 | | | | | |
| | | Open Line TARRYALL 230.00-HARTSELT 230.00 #1 | 161 | 1209.93 | 1209.93 | Amps | 100.13 | | | | | |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1209.93 | 1209.93 | Amps | 100.06 | | | | | |
| | | Open Xfmr DANIELPK 115.00/DANIELPK 230.00 #T1 | 318 | 1209.93 | 1209.93 | Amps | 100.7 | | | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 1209.93 | 1209.93 | Amps | 100.13 | | | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 1209.93 | 1209.93 | Amps | 100.13 | | | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 1209.93 | 1209.93 | Amps | 100.13 | | | | | |
| | | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 1209.93 | 1209.93 | Amps | 107.91 | 100.26 | | | | |
| | | Open Xfmr TARRYALL 115.00/TARRYALL 230.00 #T1 | 337 | 1209.93 | 1209.93 | Amps | 100.79 | | | | | |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 1209.93 | 1209.93 | Amps | 107.97 | 100.61 | | | | |
| | | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 720.93 | 982 | Amps | 100.65 | | | | | |
| ROCKISLD | 115.00-KELKER W 115.00 #1 1 | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 798.25 | 798.25 | Amps | 100.92 | | | | | |
| ROGERS | 230.00-ROGSWAPA 230.00 #1 1 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | | | | 100.67 | | |
| ROGERS | 230.00-ROGSWAPA 230.00 #2 1 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | | | | 100.67 | | |
| ROGSWAPA | 230.00-ROGERS 230.00 #1 1 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 100.37 | | 100.73 | | 103.52 | |
| | | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | 110.19 | 107.33 | 104.25 | 106.32 | 102.29 | 102.82 |
| ROGSWAPA | 230.00-ROGERS 230.00 #2 1 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 100.37 | | 100.73 | | 103.52 | |
| | | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | 110.19 | 107.33 | 104.25 | 106.32 | 102.29 | 102.82 |
| SHIPROCK | 230.00-SHIPROCK 345.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 300 | 300 | MVA | | 100.99 | | | | |
| SILVSADL | 230.00-REUNION 230.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 818.33 | 818.33 | Amps | | | | | | 102.51 |
| | | Open Line BUCKLY34 230.00-SMOKYHIL 230.00 #1 | 213 | 818.33 | 818.33 | Amps | | | | 100.77 | | 103.06 |
| | | Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | 214 | 818.33 | 818.33 | Amps | | | | 100.77 | | 103.06 |
| | | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 818.33 | 818.33 | Amps | 100.97 | | 100.11 | 101.94 | 103.44 | 106.2 |
| | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 818.33 | 818.33 | Amps | 100.95 | | | 101.56 | 102.94 | 105.53 |
| | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 818.33 | 818.33 | Amps | 107.55 | 105.17 | 106.5 | 108.2 | 109.58 | 112.22 |
| | | Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 818.33 | 818.33 | Amps | 113.68 | 111.4 | 112.86 | 114.72 | 116.24 | 119.06 |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 818.33 | 818.33 | Amps | | | | | | 100.15 |
| | | Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 818.33 | 818.33 | Amps | 106.43 | 104.13 | 105.58 | 107.42 | 108.94 | 111.73 |
| | | Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 818.33 | 818.33 | Amps | 101.13 | | | 101.05 | 102.26 | 104.66 |
| | | Open Line GREENVAL 230.00-SKYRANCH 230.00 #1 | 218 | 818.33 | 818.33 | Amps | | | | | 100.82 | 103.18 |
| | | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 818.33 | 818.33 | Amps | 103.77 | 100.92 | 102.16 | 103.74 | 105.02 | 107.5 |
| | | Open Line LEGGETT 230.00-NIWOT 230.00 #1 | 264 | 818.33 | 818.33 | Amps | | | | | | 100.9 |
| | | Open Line MEADOWHL 230.00-SMOKYHIL 230.00 #1 | 270 | 818.33 | 818.33 | Amps | | | | | | 100.13 |
| | | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 818.33 | 818.33 | Amps | | | | | 101.24 | 103.72 |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 818.33 | 818.33 | Amps | 105.37 | 102.98 | 104.31 | 106 | 107.38 | 110.01 |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 277 | 818.33 | 818.33 | Amps | | | | | 100.08 | 102.43 |
| | | Open Line SKYRANCH 230.00-IMBODEN 230.00 #1 | 278 | 818.33 | 818.33 | Amps | 100.87 | | | 100.78 | 102 | 104.4 |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 279 | 818.33 | 818.33 | Amps | 100.88 | | | 100.79 | 102.01 | 104.41 |
| | | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 818.33 | 818.33 | Amps | 101.2 | | | 101.14 | 102.37 | 104.78 |
| | | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 818.33 | 818.33 | Amps | 101.32 | | | 101.26 | 102.49 | 104.9 |
| | | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 818.33 | 818.33 | Amps | 101.4 | | | 101.35 | 102.58 | 104.99 |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 818.33 | 818.33 | Amps | 100.04 | | | 100.23 | 101.51 | 103.99 |
| | | Open Line ST.VRAIN 230.00-SPNDLE 230.00 #1 | 286 | 818.33 | 818.33 | Amps | | | | | | 100.98 |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 818.33 | 818.33 | Amps | 103.7 | 101.07 | 102.37 | 104.04 | 105.4 | 108.02 |
| | | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 818.33 | 818.33 | Amps | 112.46 | 110.17 | 111.63 | 113.49 | 115.01 | 117.84 |
| | | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 818.33 | 818.33 | Amps | 102.28 | | 100.66 | 102.06 | 103.15 | 105.47 |
| | | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 818.33 | 818.33 | Amps | 100.03 | | | 100.07 | 101.2 | 103.57 |
| | | Open Xfmr REUNION 115.00/REUNION 230.00 #1 | 353 | 818.33 | 818.33 | Amps | | | | | | 100.7 |
| SOCORROP | 115.00-EL BUTTE 115.00 #1 1 | Open Line FT.CRAIG 345.00-ARROYO 345.00 #1 | 369 | 301.23 | 301.23 | Amps | | | 103.33 | 108.81 | 113.86 | |
| SPRINGER | 115.00-GLADSTON 115.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 599.94 | 599.94 | Amps | | | | | 235.73 | 286.72 |
| SPRINGER | 115.00-STORRIE 115.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 512.08 | 512.08 | Amps | | | | | | 104.09 |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|-------|--------------------------------------|--|-----|---------|---------|------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | | | | pre10hs17.sav | pst10l_00.sav | pst10l_05.sav | pst10l_10.sav | pst10l_15.sav | pst10l_20.sav |
| | STEGALL 230.00-SIDNEY 230.00 #1 1 | Open Line LAR.RIVR 500.00-PAWNEE 500.00 #1 | 414 | 800.76 | 800.76 | Amps | | | | | | 105.28 |
| | VERDE S 230.00-COCONINO 230.00 #1 1 | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 529.66 | 529.66 | Amps | 121.99 | 121.73 | 122.02 | 122.45 | 122.79 | 123.23 |
| | W CANON 230.00-MIDWAYBR 230.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 599.94 | 599.94 | Amps | | | | | | 113.75 |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 599.94 | 599.94 | Amps | | | | | | 111.15 |
| | WALSENBG 230.00-COMANCHE 230.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 1114.54 | 1114.54 | Amps | | | | | 106.18 | 123.87 |
| | WALSENBG 230.00-WALSENBG 115.00 #1 0 | Open Xfmr WALSENBG 230.00/WALSENBG 115.00 #2 | 341 | 100 | 100 | MVA | | 104.5 | | | | |
| | WALSENBG 230.00-WALSENBG 115.00 #2 0 | Open Xfmr WALSENBG 230.00/WALSENBG 115.00 #1 | 340 | 100 | 100 | MVA | | 104.74 | 100.03 | | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| |
|---|
| High Plains Express Contingency |
| At least a 3% decrease from previous case |
| Change of less than +/- 3% from previous case |
| At least a 3% increase from previous case |

| E PCT | | | | | | | | | BASECASE | | | | | | |
|--------------------|------------------------------|--|-----|---------|---------|--------|--------|--------|---------------|---------------|---------------|---------------|---------------|---------------|--------|
| OVERLOADED ELEMENT | | CONTINGENCY | | | NO | N RATE | E RATE | UNIT | pre10hs17.sav | pst10r_00.sav | pst10r_05.sav | pst10r_10.sav | pst10r_15.sav | pst10r_20.sav | |
| APT TAP2 | 115.00-APT MEM 115.00 #1 1 | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 497.02 | 497.02 | Amps | 100.65 | | | | | | | | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 497.02 | 497.02 | Amps | 101.76 | | | | | | | | |
| | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 497.02 | 497.02 | Amps | | | | | | | | 100.06 | |
| ARCHER | 345.00-ARCHER 230.00 #1 0 | Open Line ARCHER 345.00-STORY 345.00 #1 | 181 | 600 | 600 | MVA | | | | | | | | 100.03 | |
| | | Open Line STORY 345.00-ARCHER 345.00 #1 | 191 | 600 | 600 | MVA | | | | | | | | 100.03 | |
| AULT | 345.00-LAR.RIVR 345.00 #1 1 | Open Line LAR.RIVR 345.00-ARCHER 345.00 #1 | 182 | 1599.85 | 1599.85 | Amps | | | | | | | | 111.48 | |
| AUSTIN_N | 115.00-DYER 115.00 #1 1 | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 590.91 | 800.26 | Amps | 101.63 | | | | | | | | |
| BICKNELL | 345.00-BICKNELL 230.00 #1 0 | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 150 | 193 | MVA | | 101.68 | 102.41 | 103.16 | 104.6 | | | 105.66 | |
| BIGGS | 115.00-NEWMAN 115.00 #1 1 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 590.91 | 800.26 | Amps | 101.27 | 101.37 | 101.67 | 102.1 | 101.47 | | | 101.56 | |
| COPPERVR | 345.00-COPPERVR 230.00 #1 0 | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 200 | 224 | MVA | 106.45 | 105.93 | 106.09 | 106.31 | 106.02 | | | 106.15 | |
| | | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 200 | 224 | MVA | 134.88 | 128.94 | 130.24 | 131.5 | 133.63 | | | 135.74 | |
| | | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 200 | 224 | MVA | 101.38 | | | | | | | | |
| | | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 200 | 224 | MVA | 134.3 | 128.37 | 129.67 | 130.93 | 133.05 | | | 135.16 | |
| | | Open Line MORENCI 230.00-PD-MORNC 230.00 #1 | 51 | 200 | 224 | MVA | 100.59 | 100.38 | 100.44 | 100.53 | 100.42 | | | 100.48 | |
| CORBELL | 230.00-KYRENE 230.00 #1 1 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1599.01 | 1600.01 | Amps | | | | 100.17 | | | | | |
| DANIELPK | 345.00-DANIELPK 230.00 #1 0 | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 560 | 560 | MVA | | | | | | | | 100.6 | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 560 | 560 | MVA | | | | | | | | 100.6 | |
| EAST_TAP | 115.00-LAWRNCET 115.00 #1 1 | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 783.19 | 798.25 | Amps | | 101.15 | 101.21 | 101.84 | 101.72 | | | 102.6 | |
| EGYCNR | 230.00-EGYCNR 500.00 #1 0 | Open Line BURLNGTN 500.00-BURLSC1 500.00 #1 | 199 | 200 | 200 | MVA | | | | | | | | 106.91 | |
| | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 200 | 200 | MVA | | | 133.56 | 158.79 | 189.76 | | | 211.84 | |
| | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 200 | 200 | MVA | | | | | | | | 112.06 | |
| | | Open Line EGYCNR 500.00-BOONE 500.00 #1 | 202 | 200 | 200 | MVA | | | | 103.99 | 114.67 | | | 124.68 | |
| | | Open Line EGYCNR 500.00-BURLSC2 500.00 #1 | 203 | 200 | 200 | MVA | | | | | | | | 102.77 | 107.75 |
| EGYCNR | 230.00-EGYCNR 500.00 #2 0 | Open Line BURLNGTN 500.00-BURLSC1 500.00 #1 | 199 | 200 | 200 | MVA | | | | | | | | 106.91 | |
| | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 200 | 200 | MVA | | | 133.56 | 158.79 | 189.76 | | | 211.84 | |
| | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 200 | 200 | MVA | | | | | | | | 112.06 | |
| | | Open Line EGYCNR 500.00-BOONE 500.00 #1 | 202 | 200 | 200 | MVA | | | | 103.99 | 114.67 | | | 124.68 | |
| | | Open Line EGYCNR 500.00-BURLSC2 500.00 #1 | 203 | 200 | 200 | MVA | | | | | | | | 102.77 | 107.75 |
| EGYCNR | 500.00-EGYCNR 230.00 #1 0 | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 200 | 200 | MVA | | | | | | | | 102.99 | |
| | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 200 | 200 | MVA | | | 108.06 | | | | | | |
| | | Open Line LAMAR CO 230.00-LAMAR DC 230.00 #1 | 149 | 200 | 200 | MVA | | | | | | | | 103.83 | |
| EGYCNR | 500.00-EGYCNR 230.00 #2 0 | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 200 | 200 | MVA | | | | | | | | 102.99 | |
| | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 200 | 200 | MVA | | | 108.06 | | | | | | |
| | | Open Line LAMAR CO 230.00-LAMAR DC 230.00 #1 | 149 | 200 | 200 | MVA | | | | | | | | 103.83 | |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #1 1 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1499.44 | 1650.05 | Amps | 124.03 | 120.89 | 125.49 | 130.52 | 135.28 | | | 140.05 | |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #1 2 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1250.09 | 1680.17 | Amps | 121.81 | 118.72 | 123.24 | 128.18 | 132.86 | | | 137.54 | |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #2 1 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1999.97 | 1999.97 | Amps | 102.32 | | 103.52 | 107.68 | 111.61 | | | 115.55 | |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #2 2 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1250.09 | 1680.17 | Amps | 121.8 | 118.71 | 123.23 | 128.18 | 132.85 | | | 137.54 | |
| FOURC1AA | 100.00-FOURCORN 500.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116 | 116.19 | 108.75 | 101.33 | | | | | |
| FOURCORN | 345.00-FOURC1AA 100.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116.47 | 116.69 | 109.24 | 101.8 | | | | | |
| FTLUPTON | 230.00-FTLUPTON 115.00 #T3 0 | Open Line ARAPAHOE 230.00-SANTEFE 230.00 #1 | 212 | 280 | 280 | MVA | 103.36 | 103.48 | 104.41 | 105.42 | 106.4 | | | 110.83 | |
| | | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 280 | 280 | MVA | 103.2 | 103.31 | 104.26 | 105.3 | 106.31 | | | 110.73 | |
| | | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 280 | 280 | MVA | 105.45 | 105.52 | 106.5 | 107.57 | 108.61 | | | 113.19 | |
| | | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 280 | 280 | MVA | 106.26 | 106.32 | 107.3 | 108.37 | 109.41 | | | 114 | |
| | | Open Line BRICKCTR 345.00-DANIELPK 345.00 #1 | 162 | 280 | 280 | MVA | 102.97 | 103.12 | 104.09 | 105.15 | 106.18 | | | 110.64 | |
| | | Open Line BRICKCTR 345.00-DANIELPK 345.00 #2 | 163 | 280 | 280 | MVA | 102.97 | 103.12 | 104.09 | 105.15 | 106.18 | | | 110.64 | |
| | | Open Line BUCKLY34 230.00-SMOKYHIL 230.00 #1 | 213 | 280 | 280 | MVA | 103.72 | 103.83 | 104.78 | 105.82 | 106.82 | | | 111.29 | |
| | | Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | 214 | 280 | 280 | MVA | 103.71 | 103.83 | 104.78 | 105.82 | 106.82 | | | 111.29 | |
| | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 280 | 280 | MVA | | | | | | | | | 110.64 |
| | | Open Line CHATFLD 230.00-WATERTON 230.00 #1 | 226 | 280 | 280 | MVA | 103.33 | 103.42 | 104.35 | 105.36 | 106.34 | | | 110.76 | |
| | | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 280 | 280 | MVA | 107.3 | 107.48 | 108.67 | 109.97 | 111.24 | | | 116.2 | |
| | | Open Line CHEROKEE 230.00-LACOMBE 230.00 #1 | 228 | 280 | 280 | MVA | 103.67 | 103.79 | 104.78 | 105.87 | 106.92 | | | 111.39 | |
| | | Open Line CHEROKEE 230.00-RIDGE 230.00 #1 | 229 | 280 | 280 | MVA | 103.05 | 103.14 | 104.12 | 105.19 | 106.22 | | | 110.68 | |
| | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 280 | 280 | MVA | 107.33 | 107.5 | 108.61 | 109.84 | 111.02 | | | 115.84 | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| |
|---|
| High Plains Express Contingency |
| At least a 3% decrease from previous case |
| Change of less than +/- 3% from previous case |
| At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|-------|---------------------------------------|---|-----|--------|--------|------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | | | | pre10hs17.sav | pst10r_00.sav | pst10r_05.sav | pst10r_10.sav | pst10r_15.sav | pst10r_20.sav |
| | FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 280 | 280 | MVA | 105.39 | 105.46 | 106.44 | 107.51 | 108.55 | 113.13 |
| | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 280 | 280 | MVA | 103.27 | 103.5 | 104.42 | 105.43 | 106.4 | 110.8 |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 280 | 280 | MVA | 103.84 | 104.11 | 105.02 | 106.02 | 106.97 | 111.37 |
| | | Open Line DANIELPK 230.00-BRICKCTR 230.00 #1 | 240 | 280 | 280 | MVA | | | | | | 110.46 |
| | | Open Line DANIELPK 230.00-SANTEFE 230.00 #1 | 239 | 280 | 280 | MVA | 103.46 | 103.58 | 104.51 | 105.52 | 106.5 | 110.93 |
| | | Open Line DENVTM 230.00-LACOMBE 230.00 #1 | 243 | 280 | 280 | MVA | 103.28 | 103.42 | 104.4 | 105.49 | 106.53 | 111 |
| | | Open Line EGYCNTN 500.00-BOONE 500.00 #1 | 202 | 280 | 280 | MVA | 104.22 | 104.08 | 105.05 | 106.11 | 107.14 | 111.58 |
| | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 280 | 280 | MVA | 111.58 | 111.73 | 112.85 | 114.08 | 115.28 | 120.16 |
| | | Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 280 | 280 | MVA | 115.61 | 115.76 | 116.96 | 118.27 | 119.55 | 124.66 |
| | | Open Line FULLER 230.00-DANIELPK 230.00 #1 | 307 | 280 | 280 | MVA | 102.93 | | | | | |
| | | Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 280 | 280 | MVA | 110.97 | 111.13 | 112.33 | 113.64 | 114.91 | 119.94 |
| | | Open Line GREENVAL 230.00-FTLUPTON 230.00 #1 | 217 | 280 | 280 | MVA | 104.66 | 105.18 | 106.34 | 107.61 | 108.85 | 113.4 |
| | | Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 280 | 280 | MVA | 103.95 | 104.07 | 105.04 | 106.11 | 107.13 | 111.62 |
| | | Open Line GREENVAL 230.00-SKYRANCH 230.00 #1 | 218 | 280 | 280 | MVA | 103.7 | 103.83 | 104.8 | 105.85 | 106.88 | 111.35 |
| | | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 280 | 280 | MVA | 104.44 | 104.56 | 105.54 | 106.61 | 107.65 | 112.16 |
| | | Open Line GREENVAL 230.00-ST.VRAIN 230.00 #1 | 219 | 280 | 280 | MVA | 103.34 | 103.55 | 104.55 | 105.65 | 106.7 | 111.17 |
| | | Open Line GREENWD 230.00-MONACO12 230.00 #1 | 256 | 280 | 280 | MVA | 103.42 | 103.52 | 104.44 | 105.45 | 106.43 | 110.88 |
| | | Open Line JEWELL2 230.00-TOLGATE 230.00 #1 | 260 | 280 | 280 | MVA | 103.01 | 103.12 | 104.07 | 105.11 | 106.12 | 110.58 |
| | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 280 | 280 | MVA | 103.31 | 103.31 | 104.43 | 105.66 | 106.97 | 111.8 |
| | | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 280 | 280 | MVA | 103.24 | 103.24 | 104.49 | 105.74 | 106.81 | 110.55 |
| | | Open Line LEETSDAL 230.00-MONACO12 230.00 #1 | 263 | 280 | 280 | MVA | 103.27 | 103.37 | 104.3 | 105.31 | 106.29 | 110.73 |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 153 | 280 | 280 | MVA | 103.89 | 104.03 | 105.15 | 106.38 | 107.57 | 112.24 |
| | | Open Line LEGGETT 230.00-NIWOT 230.00 #1 | 264 | 280 | 280 | MVA | 105.72 | 105.85 | 106.97 | 108.2 | 109.39 | 114.09 |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 265 | 280 | 280 | MVA | 103.89 | 104.03 | 105.15 | 106.38 | 107.57 | 112.24 |
| | | Open Line MEADOWHL 230.00-SMOKYHIL 230.00 #1 | 270 | 280 | 280 | MVA | 103.02 | 103.16 | 104.12 | 105.16 | 106.17 | 110.61 |
| | | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 280 | 280 | MVA | 103.09 | 103.15 | 104.12 | 105.17 | 106.2 | 110.63 |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 280 | 280 | MVA | 103.58 | 103.7 | 104.62 | 105.61 | 106.57 | 110.96 |
| | | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 280 | 280 | MVA | 108.16 | 108.27 | 109.38 | 110.61 | 111.8 | 116.53 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 280 | 280 | MVA | 105.55 | 105.66 | 106.7 | 107.83 | 108.93 | 113.51 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 280 | 280 | MVA | 105.55 | 105.66 | 106.7 | 107.83 | 108.93 | 113.51 |
| | | Open Line QUINCY 230.00-BRICKCTR 230.00 #1 | 275 | 280 | 280 | MVA | 103.26 | 103.41 | 104.35 | 105.38 | 106.38 | 110.81 |
| | | Open Line QUINCY 230.00-SMOKYHIL 230.00 #1 | 274 | 280 | 280 | MVA | 103.24 | 103.39 | 104.33 | 105.37 | 106.36 | 110.79 |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 280 | 280 | MVA | 110.18 | 110.33 | 111.45 | 112.68 | 113.87 | 118.74 |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 280 | 280 | MVA | 103.06 | 103.13 | 104.08 | 105.11 | 106.12 | 110.53 |
| | | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 280 | 280 | MVA | 105.85 | 105.92 | 106.9 | 107.97 | 109.01 | 113.6 |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 277 | 280 | 280 | MVA | 103.56 | 103.69 | 104.66 | 105.71 | 106.74 | 111.21 |
| | | Open Line SKYRANCT 230.00-IMBODEN 230.00 #1 | 278 | 280 | 280 | MVA | 103.9 | 104.02 | 105 | 106.06 | 107.08 | 111.57 |
| | | Open Line SKYRANCT 230.00-SPRUCE 230.00 #1 | 279 | 280 | 280 | MVA | 103.9 | 104.03 | 105 | 106.06 | 107.09 | 111.58 |
| | | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 280 | 280 | MVA | 103.66 | 103.79 | 104.76 | 105.81 | 106.84 | 111.31 |
| | | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 280 | 280 | MVA | 103.68 | 103.81 | 104.78 | 105.83 | 106.86 | 111.33 |
| | | Open Line SODALAKE 230.00-CHATFLD 230.00 #1 | 209 | 280 | 280 | MVA | 102.91 | | | | | |
| | | Open Line SPRUCE 230.00-CHAMBERS 230.00 #1 | 300 | 280 | 280 | MVA | 102.92 | 103.06 | 104.01 | 105.04 | 106.04 | 110.47 |
| | | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 280 | 280 | MVA | 103.7 | 103.82 | 104.79 | 105.84 | 106.87 | 111.34 |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 280 | 280 | MVA | 108.36 | 108.47 | 109.58 | 110.81 | 112 | 116.73 |
| | | Open Line ST.VRAIN 230.00-SPNDLE 230.00 #1 | 286 | 280 | 280 | MVA | 107.55 | 107.73 | 109.02 | 110.42 | 111.8 | 116.77 |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 280 | 280 | MVA | 117.58 | 117.7 | 119 | 120.41 | 121.81 | 126.91 |
| | | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 280 | 280 | MVA | 114.9 | 115.05 | 116.25 | 117.56 | 118.84 | 123.94 |
| | | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 280 | 280 | MVA | | | | 105.17 | 106.49 | 110.98 |
| | | Open Xfmr ARAPAHOB 115.00/ARAPAHOE 230.00 #T5 | 311 | 280 | 280 | MVA | 103.65 | 103.8 | 104.74 | 105.77 | 106.76 | 111.21 |
| | | Open Xfmr BRICKCTR 115.00/BRICKCTR 230.00 #T1 | 351 | 280 | 280 | MVA | 102.96 | 103.1 | 104.05 | 105.08 | 106.08 | 110.5 |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #1 | 349 | 280 | 280 | MVA | 102.92 | 103.06 | 104.01 | 105.05 | 106.05 | 110.48 |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #2 | 350 | 280 | 280 | MVA | 102.92 | 103.06 | 104.01 | 105.05 | 106.05 | 110.48 |
| | | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 280 | 280 | MVA | 105.92 | 106.04 | 106.99 | 108.04 | 109.05 | 113.61 |
| | | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A1 | 312 | 280 | 280 | MVA | 104.3 | 104.47 | 105.43 | 106.47 | 107.47 | 112.1 |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| |
|---|
| High Plains Express Contingency |
| At least a 3% decrease from previous case |
| Change of less than +/- 3% from previous case |
| At least a 3% increase from previous case |

| E_PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | | | |
|--|--|---|---------|---|--------|--------|---------------|---------------|---------------|---------------|---------------|---------------|--------|--------|
| | | | | | | | pre10hs17.sav | pst10r_00.sav | pst10r_05.sav | pst10r_10.sav | pst10r_15.sav | pst10r_20.sav | | |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A2 | 313 | 280 | 280 | MVA | 104.29 | 104.47 | 105.42 | 106.46 | 107.46 | 112.09 | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 280 | 280 | MVA | 103.12 | 103.26 | 104.21 | 105.24 | 106.24 | 110.66 | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 280 | 280 | MVA | 103.12 | 103.26 | 104.21 | 105.24 | 106.24 | 110.66 | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 280 | 280 | MVA | 103.12 | 103.26 | 104.21 | 105.24 | 106.24 | 110.66 | | |
| | | Open Xfmr DENVTM 115.00/DENVTM 230.00 #T2 | 322 | 280 | 280 | MVA | 103.7 | 103.86 | 104.79 | 105.82 | 106.8 | 111.29 | | |
| | | Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 280 | 280 | MVA | 103.02 | 103.16 | 104.11 | 105.15 | 106.15 | 110.59 | | |
| | | Open Xfmr LEETSDAL 115.00/LEETSDAL 230.00 #T4 | 324 | 280 | 280 | MVA | 104.34 | 104.49 | 105.41 | 106.42 | 107.4 | 111.93 | | |
| | | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 280 | 280 | MVA | 103.43 | 103.54 | 104.46 | 105.46 | 106.42 | 110.81 | | |
| | | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #1 | 329 | 280 | 280 | MVA | 103 | 103.14 | 104.1 | 105.15 | 106.17 | 110.61 | | |
| | | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #2 | 331 | 280 | 280 | MVA | 103 | 103.14 | 104.1 | 105.15 | 106.17 | 110.61 | | |
| | | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #3 | 330 | 280 | 280 | MVA | 103 | 103.14 | 104.1 | 105.15 | 106.17 | 110.61 | | |
| | | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T1 | 332 | 280 | 280 | MVA | 103.25 | 103.4 | 104.34 | 105.37 | 106.36 | 110.79 | | |
| | | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T2 | 333 | 280 | 280 | MVA | 103.26 | 103.41 | 104.35 | 105.38 | 106.37 | 110.8 | | |
| | | Open Xfmr SODALAKE 115.00/SODALAKE 230.00 #T2 | 336 | 280 | 280 | MVA | 103.17 | 103.32 | 104.26 | 105.29 | 106.28 | 110.7 | | |
| | | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T1 | 338 | 280 | 280 | MVA | 105.82 | 106.01 | 106.98 | 108.04 | 109.06 | 113.58 | | |
| | | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T2 | 339 | 280 | 280 | MVA | 105.82 | 106.01 | 106.98 | 108.04 | 109.06 | 113.58 | | |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 280 | 280 | MVA | 103.52 | 103.64 | 104.56 | 105.55 | 106.52 | 110.9 | | |
| | | GLADSTON 115.00-SPRINGER 115.00 #1 1 | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 599.94 | 599.94 | Amps | | | | | | 117 |
| | | | | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 599.94 | 599.94 | Amps | | | | 104.05 | 121.36 | 148.45 |
| Open Line B-A 345.00-NORTON 345.00 #1 | 85 | | | 599.94 | 599.94 | Amps | | | | | 104.9 | 123.6 | | |
| Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | | | 599.94 | 599.94 | Amps | | | | | | 117.09 | | |
| Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | | | 599.94 | 599.94 | Amps | | | | | | 116.87 | | |
| Open Line CF&IFURN 230.00-COMANCHE 230.00 #1 | 145 | | | 599.94 | 599.94 | Amps | | | | | | 118.72 | | |
| Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | | | 599.94 | 599.94 | Amps | | | | | | 116.74 | | |
| Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | | | 599.94 | 599.94 | Amps | | | 111.63 | 132.93 | | 161.83 | | |
| Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | | | 599.94 | 599.94 | Amps | | | | | | 118.03 | | |
| Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | | | 599.94 | 599.94 | Amps | | | | | | 118.07 | | |
| Open Line FT.CRAIG 500.00-LUNA 500.00 #1 | 396 | | | 599.94 | 599.94 | Amps | | | | | 101.19 | 119.06 | | |
| Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | | | 599.94 | 599.94 | Amps | | | | | | 117.19 | | |
| Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | | | 599.94 | 599.94 | Amps | | 125.47 | 162.85 | 200.2 | | | | |
| Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | | | 599.94 | 599.94 | Amps | | | | 112.15 | 134.13 | 162.88 | | |
| Open Line LUNA 500.00-WINCHSTR 500.00 #1 | 397 | | | 599.94 | 599.94 | Amps | | | | | | 116.44 | | |
| Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | | | 599.94 | 599.94 | Amps | | | | | | 117.56 | | |
| Open Line OJO 345.00-TAOS 345.00 #1 | 92 | | | 599.94 | 599.94 | Amps | | | | | 104.31 | 120.36 | | |
| Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | | | 599.94 | 599.94 | Amps | | | | | | 117.31 | | |
| Open Line SAN_JUAN 345.00-OJO 345.00 #1 | 358 | | | 599.94 | 599.94 | Amps | | | 104.76 | 116.49 | 127.2 | 141.56 | | |
| Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | | | 599.94 | 599.94 | Amps | | | | | 100.55 | 120.81 | | |
| Open Line WINCHSTR 345.00-VAIL 345.00 #1 | 37 | 599.94 | 599.94 | Amps | | | | | | 114.59 | | | | |
| Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | 599.94 | 599.94 | Amps | | | | | | 120.86 | | | | |
| Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 599.94 | 599.94 | Amps | | | | | 109.49 | 129.75 | | | | |
| GLADSTON 230.00-GLADSTON 115.00 #1 0 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 200 | 200 | MVA | | | | | | 104.9 | | | |
| GLADSTON 230.00-GLADSTON 115.00 #2 0 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 200 | 200 | MVA | | | | | | 104.9 | | | |
| GLENCANY 345.00-FLAGSTAF 345.00 #1 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1999.97 | 1999.97 | Amps | 103.13 | 100.48 | 104.37 | 108.61 | 112.64 | 116.66 | | | |
| GLENCANY 345.00-FLAGSTAF 345.00 #1 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1840.83 | 2024.91 | Amps | 101.86 | | 103.08 | 107.27 | 111.26 | 115.22 | | | |
| GLENCANY 345.00-FLAGSTAF 345.00 #2 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1250.09 | 1680.17 | Amps | 122.54 | 119.38 | 124.01 | 129.06 | 133.86 | 138.64 | | | |
| GLENCANY 345.00-FLAGSTAF 345.00 #2 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1840.83 | 2024.91 | Amps | 101.68 | | 102.9 | 107.09 | 111.07 | 115.04 | | | |
| GR 115.00-VISTA_# 115.00 #1 1 | Open Line CALIENTE 345.00-NC1 345.00 #1 | 74 | 590.91 | 800.26 | Amps | 149.06 | 151.22 | 151.91 | 152.73 | 151.85 | 151.58 | | | |
| GREEN-AE 345.00-GREEN-AE 230.00 #1 0 | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 150 | 193 | MVA | 108.88 | 108.3 | 108.48 | 108.72 | 108.4 | 108.55 | | | |
| | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 150 | 193 | MVA | 156.07 | 149.1 | 150.61 | 152.08 | 154.57 | 157.05 | | | |
| | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 150 | 193 | MVA | 155.75 | 148.75 | 150.27 | 151.75 | 154.23 | 156.72 | | | |
| | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 150 | 193 | MVA | 103.75 | | | | | | | | |
| | Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 150 | 193 | MVA | 132.42 | 125.32 | 126.89 | 128.42 | 130.93 | 133.46 | | | |
| JLGREEN 230.00-FTLUPTON 230.00 #1 1 | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 1242.56 | 1242.56 | Amps | | | | | | 101.39 | | | |
| | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 1242.56 | 1242.56 | Amps | | | | | | 103.87 | | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E_PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|---|-----------------------------|---|-----|---------|---------|--------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | | | | pre10hs17.sav | pst10r_00.sav | pst10r_05.sav | pst10r_10.sav | pst10r_15.sav | pst10r_20.sav |
| JLGREEN | 230.00-FTLUPTON 230.00 #1 1 | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 1242.56 | 1242.56 | Amps | | | | | | 103.51 |
| | | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 1242.56 | 1242.56 | Amps | | | | | | 101.21 |
| | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 1242.56 | 1242.56 | Amps | 100.01 | 100.33 | 102.39 | 104.64 | 106.99 | 111.56 |
| | | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 1242.56 | 1242.56 | Amps | | | | | | 100.17 |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 1242.56 | 1242.56 | Amps | | | | 101.98 | 104.33 | 108.89 |
| | | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 1242.56 | 1242.56 | Amps | | | | | | 102.62 |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 1242.56 | 1242.56 | Amps | | | | | | 100.45 |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1242.56 | 1242.56 | Amps | | | | | | 104.29 |
| | | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 1242.56 | 1242.56 | Amps | | | | | | 104.23 |
| LAMAR CO | 230.00-LAMAR CO 115.00 #1 0 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 100 | 100 | MVA | 113.06 | | | | | |
| | | Open Line B.SANDY 230.00-BEAV/ERCK 230.00 #1 | 176 | 100 | 100 | MVA | 112.15 | | | | | |
| | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 100 | 100 | MVA | 129.81 | 100.03 | | | | |
| | | Open Line BOONE 230.00-LAMAR CO 230.00 #1 | 143 | 100 | 100 | MVA | 123.95 | | | | | |
| | | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 100 | 100 | MVA | 113.3 | | | | | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 100 | 100 | MVA | 130.71 | 100.44 | | | | |
| | | Open Line BURLNGTN 500.00-BURLSC1 500.00 #1 | 199 | 100 | 100 | MVA | 114.11 | | | | | |
| | | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 100 | 100 | MVA | 117.36 | | | | | |
| | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 100 | 100 | MVA | 115.72 | | | | | |
| | | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 100 | 100 | MVA | 148.42 | 114.68 | 114.68 | 114.74 | 114.11 | 115.17 |
| | | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 100 | 100 | MVA | 118.07 | | | | | |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 100 | 100 | MVA | | | | 101.54 | 103.45 | 106.18 |
| | | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 100 | 100 | MVA | 114.26 | | | | | |
| | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 100 | 100 | MVA | | 109.35 | 113.01 | 116.71 | 121.03 | 126.11 |
| | | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 100 | 100 | MVA | 114.03 | | | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 100 | 100 | MVA | 112.04 | | | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 100 | 100 | MVA | 112.04 | | | | | |
| | | Open Xfmr BOONE 115.00/BOONE 230.00 #1 | 355 | 100 | 100 | MVA | 132.57 | 112.35 | 112.23 | 112.12 | 111.48 | 111.85 |
| | | Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A1 | 314 | 100 | 100 | MVA | 112.93 | | | | | |
| Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A2 | 315 | 100 | 100 | MVA | 112.96 | | | | | | | |
| Open Xfmr LAMAR CO 500.00/LAMAR CO 230.00 #1 | 403 | 100 | 100 | MVA | | 101.77 | 102.85 | 104.03 | 104.72 | 106.99 | | |
| LAR.RIVR | 345.00-AULT 345.00 #1 1 | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 1599.85 | 1599.85 | Amps | | | | | 113.37 | |
| LAR.RIVR | 500.00-LAR.RIVR 345.00 #1 0 | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 840 | 1200 | MVA | | | | | 105.09 | |
| LUDLOTAP | 115.00-WALSENBG 115.00 #1 1 | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 350.93 | 350.93 | Amps | | | | | 107.41 | |
| LUNA | 345.00-LUNA 115.00 #1 0 | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 224 | 224 | MVA | 103.32 | | | | | |
| MIDWAYBR | 230.00-RD_NIXON 230.00 #1 1 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 1209.93 | 1209.93 | Amps | 107.23 | | | | | 100.04 |
| | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 1209.93 | 1209.93 | Amps | 102.84 | | | | | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 1209.93 | 1209.93 | Amps | 103.46 | | | | | |
| | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 1209.93 | 1209.93 | Amps | 100.33 | | | | | |
| | | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 1209.93 | 1209.93 | Amps | 101.87 | | | | | |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 1209.93 | 1209.93 | Amps | 110.63 | | | | | |
| | | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 1209.93 | 1209.93 | Amps | 101.08 | | | | | |
| | | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 1209.93 | 1209.93 | Amps | 103.43 | | | | | |
| | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 1209.93 | 1209.93 | Amps | | | | | 100.49 | 103.35 |
| NEWMAN | 115.00-NEWMAN_B 345.00 #1 0 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 101.84 | 107.66 | 109.51 | 111.46 | 108.22 | 107.21 |
| NEWMAN_B | 345.00-NEWMAN 345.00 #1 0 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 100.98 | 106.81 | 108.52 | 110.26 | 107.49 | 106.41 |
| OJO | 345.00-OJO 115.00 #1 0 | Open Line FOURCORN 345.00-WESTMESA 345.00 #1 | 357 | 180 | 180 | MVA | 103.46 | | | | | |
| | | Open Line OJO 345.00-TAOS 345.00 #1 | 92 | 180 | 180 | MVA | 107.42 | | | | | |
| ORME | 230.00-RUDD 230.00 #1 1 | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1599.01 | 1600.01 | Amps | | | 109.97 | | | |
| P.VALLEY | 115.00-TODD CRE 115.00 #1 1 | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 676.75 | 676.75 | Amps | 105.04 | 104.66 | 104.57 | 104.48 | 104.42 | 103.82 |
| PINPK | 230.00-PNPKAPS 230.00 #1 1 | Open Line RACEWAY 500.00-PNPKAPS 500.00 #1 | 109 | 1691.89 | 1998.13 | Amps | 113.5 | | | 112.28 | | |
| PNPKAPS | 230.00-CACTUS 230.00 #1 1 | Open Line PNPKAPS 230.00-OCOTILLO 230.00 #1 | 15 | 931.29 | 1157.21 | Amps | | | | | 120.55 | |
| PNPKAPS | 230.00-PINPK 230.00 #1 1 | Open Line RACEWAY 500.00-PNPKAPS 500.00 #1 | 109 | 1691.89 | 1998.13 | Amps | | 112.16 | 112.67 | 112.88 | 112.73 | |
| PRESCOTT | 230.00-WILOWLKW 230.00 #1 1 | Open Line YAVAPAI 500.00-WESTWING 500.00 #1 | 5 | 672.99 | 672.99 | Amps | | | | 110.05 | 113.15 | |
| RD_NIXON | 230.00-MIDWAYBR 230.00 #1 1 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 1209.93 | 1209.93 | Amps | | 102.21 | 101.58 | 100.87 | 100.07 | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E_PCT | | OVERLOADED ELEMENT | | | | | | BASECASE | | | | | |
|----------|---------------------------|---|--|---|---------|---------|---------------|---------------|---------------|---------------|---------------|---------------|--------|
| AREA | ZONE | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10h517.sav | pst10r_00.sav | pst10r_05.sav | pst10r_10.sav | pst10r_15.sav | pst10r_20.sav | |
| RD_NIXON | 230.00-MIDWAYBR | 230.00 #1 | 1 | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 1209.93 | 1209.93 | Amps | 100.29 | | | | |
| | | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 1209.93 | 1209.93 | Amps | 100.61 | | | | | | |
| | | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 1209.93 | 1209.93 | Amps | 100.79 | | | | | | |
| | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 1209.93 | 1209.93 | Amps | 105.68 | 101.15 | 100.32 | | | | |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 1209.93 | 1209.93 | Amps | | 105.59 | 104.75 | 103.87 | 102.78 | 102.73 | |
| | | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 1209.93 | 1209.93 | Amps | 100.21 | | | | | | |
| | | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 1209.93 | 1209.93 | Amps | 135.27 | 129.51 | 128.24 | 126.82 | 125.22 | 124.59 | |
| | | Open Line MIDWAYPS 230.00-MIDWAYBR 230.00 #1 | 156 | 1209.93 | 1209.93 | Amps | 104.59 | | | | | | |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 1209.93 | 1209.93 | Amps | 108.19 | 102.93 | 102.01 | 100.98 | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 1209.93 | 1209.93 | Amps | 100.35 | | | | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 1209.93 | 1209.93 | Amps | 100.35 | | | | | | |
| | | Open Line TARRYALL 230.00-HARTSELT 230.00 #1 | 161 | 1209.93 | 1209.93 | Amps | 100.13 | | | | | | |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1209.93 | 1209.93 | Amps | 100.06 | | | | | | |
| | | Open Xfmr DANIELPK 115.00/DANIELPK 230.00 #T1 | 318 | 1209.93 | 1209.93 | Amps | 100.7 | | | | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 1209.93 | 1209.93 | Amps | 100.13 | | | | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 1209.93 | 1209.93 | Amps | 100.13 | | | | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 1209.93 | 1209.93 | Amps | 100.13 | | | | | | |
| | | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 1209.93 | 1209.93 | Amps | 107.91 | 102.64 | 101.72 | 100.69 | | | |
| | | Open Xfmr TARRYALL 115.00/TARRYALL 230.00 #T1 | 337 | 1209.93 | 1209.93 | Amps | 100.79 | | | | | | |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 1209.93 | 1209.93 | Amps | 107.97 | 102.97 | 102.02 | 100.94 | | | |
| RIO_GRAN | 115.00-MESA # 115.00 #1 | 1 | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 720.93 | 982 | Amps | 100.65 | | | | | |
| ROCKISLD | 115.00-KELKER W 115.00 #1 | 1 | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 798.25 | 798.25 | Amps | 100.92 | | | | | |
| ROGSWAPA | 230.00-ROGERS 230.00 #1 | 1 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 100.37 | | | 104.11 | 104.24 | 108.59 |
| ROGSWAPA | 230.00-ROGERS 230.00 #2 | 1 | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | 110.19 | 108.17 | 105.24 | 107.66 | 103.93 | 106.34 |
| | | | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 100.37 | | | 104.11 | 104.24 | 108.59 |
| SHIPROCK | 230.00-SHIPROCK 345.00 #1 | 0 | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | 110.19 | 108.17 | 105.24 | 107.66 | 103.93 | 106.34 |
| | | | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 300 | 300 | MVA | | 102.38 | | | | |
| SILVSADL | 230.00-REUNION 230.00 #1 | 1 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 300 | 300 | MVA | | 106.5 | 103.65 | 100.5 | | |
| | | | Open Line ARAPAHOE 230.00-SANTEFE 230.00 #1 | 212 | 818.33 | 818.33 | Amps | | | | | | 101.82 |
| SILVSADL | 230.00-REUNION 230.00 #1 | 1 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 818.33 | 818.33 | Amps | | | | | | 100.24 |
| | | | Open Line BUCKLY12 230.00-SMOKYHIL 230.00 #1 | 224 | 818.33 | 818.33 | Amps | | | | | | 100.81 |
| | | | Open Line BUCKLY34 230.00-SMOKYHIL 230.00 #1 | 213 | 818.33 | 818.33 | Amps | | | | | 100.75 | 105.46 |
| | | | Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | 214 | 818.33 | 818.33 | Amps | | | | | 100.75 | 105.46 |
| | | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 818.33 | 818.33 | Amps | | | | | | 100.29 |
| | | | Open Line CHATFLD 230.00-WATERTON 230.00 #1 | 226 | 818.33 | 818.33 | Amps | | | | | | 100.76 |
| | | | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 818.33 | 818.33 | Amps | 100.97 | | 100.03 | 101.53 | 103.14 | 103.39 |
| | | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 818.33 | 818.33 | Amps | 100.95 | | | 101.26 | 102.74 | 107.76 |
| | | | Open Line CLARK 230.00-JORDAN 230.00 #1 | 233 | 818.33 | 818.33 | Amps | | | | | | 100.17 |
| | | | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 818.33 | 818.33 | Amps | | | | | | 100.17 |
| | | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 818.33 | 818.33 | Amps | | | | | | 100.46 |
| | | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 818.33 | 818.33 | Amps | | | | | | 101.7 |
| | | | Open Line DANIELPK 230.00-SANTEFE 230.00 #1 | 239 | 818.33 | 818.33 | Amps | | | | | | 102.19 |
| | | | Open Line DENVTM 230.00-WESTPS 230.00 #1 | 243 | 818.33 | 818.33 | Amps | | | | | | 100.15 |
| | | | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 818.33 | 818.33 | Amps | | | | | | 101.43 |
| | | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 818.33 | 818.33 | Amps | 107.55 | 105.18 | 106.5 | 107.88 | 109.37 | 114.44 |
| | | | Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 818.33 | 818.33 | Amps | 113.68 | 111.35 | 112.78 | 114.29 | 115.91 | 121.24 |
| | | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 818.33 | 818.33 | Amps | | | | | | 103.46 |
| | | | Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 818.33 | 818.33 | Amps | 106.43 | 104.07 | 105.5 | 107.01 | 108.62 | 113.91 |
| | | | Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 818.33 | 818.33 | Amps | 101.13 | | | 101.02 | 102.36 | 107.15 |
| | | | Open Line GREENVAL 230.00-SKYRANCH 230.00 #1 | 218 | 818.33 | 818.33 | Amps | | | | | 100.92 | 105.64 |
| | | | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 818.33 | 818.33 | Amps | 103.77 | 101.2 | 102.44 | 103.73 | 105.14 | 110.05 |
| | | | Open Line GREENWD 230.00-MONACO12 230.00 #1 | 256 | 818.33 | 818.33 | Amps | | | | | | 102.48 |
| | | | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 818.33 | 818.33 | Amps | | | | | | 100.26 |
| | | | Open Line HOMESTEAD 230.00-MURPHY 230.00 #1 | 296 | 818.33 | 818.33 | Amps | | | | | | 100.15 |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| |
|---|
| High Plains Express Contingency |
| At least a 3% decrease from previous case |
| Change of less than +/- 3% from previous case |
| At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | | |
|---|---|---|---------|---------|--------|--------|---------------|---------------|---------------|---------------|---------------|---------------|--------|
| | | | | | | | pre10hs17.sav | pst10r_00.sav | pst10r_05.sav | pst10r_10.sav | pst10r_15.sav | pst10r_20.sav | |
| SILVSADL | 230.00-REUNION 230.00 #1 1 | Open Line JEWELL2 230.00-LEETSDAL 230.00 #1 | 259 | 818.33 | 818.33 | Amps | | | | | | 100.26 | |
| | | Open Line JEWELL2 230.00-TOLGATE 230.00 #1 | 260 | 818.33 | 818.33 | Amps | | | | | | 101.52 | |
| | | Open Line JORDAN 230.00-ORCHARD 230.00 #1 | 261 | 818.33 | 818.33 | Amps | | | | | | 100.34 | |
| | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 818.33 | 818.33 | Amps | | | | | 100.37 | | 106.67 |
| | | Open Line LEETSDAL 230.00-MONACO12 230.00 #1 | 263 | 818.33 | 818.33 | Amps | | | | | | | 101.8 |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 153 | 818.33 | 818.33 | Amps | | | | | | | 101.33 |
| | | Open Line LEGGETT 230.00-NIWOT 230.00 #1 | 264 | 818.33 | 818.33 | Amps | | | | | | | 103.3 |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 265 | 818.33 | 818.33 | Amps | | | | | | | 101.33 |
| | | Open Line LOOKOUT 230.00-PLNENDSS 230.00 #1 | 154 | 818.33 | 818.33 | Amps | | | | | | | 100.01 |
| | | Open Line LOOKOUT 230.00-PLNENDSS 230.00 #2 | 155 | 818.33 | 818.33 | Amps | | | | | | | 100 |
| | | Open Line LOOKOUT 230.00-RIDGE 230.00 #1 | 266 | 818.33 | 818.33 | Amps | | | | | | | 100.89 |
| | | Open Line LOOKOUT 230.00-WESTPS 230.00 #1 | 267 | 818.33 | 818.33 | Amps | | | | | | | 100.53 |
| | | Open Line MEADOWHL 230.00-ORCHARD 230.00 #1 | 269 | 818.33 | 818.33 | Amps | | | | | | | 101.22 |
| | | Open Line MEADOWHL 230.00-SMOKYHIL 230.00 #1 | 270 | 818.33 | 818.33 | Amps | | | | | | | 102.39 |
| | | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 818.33 | 818.33 | Amps | | | | | | | 100.21 |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 818.33 | 818.33 | Amps | | | | | | | 100.78 |
| | | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 818.33 | 818.33 | Amps | | | | | 101.33 | | 106.11 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 818.33 | 818.33 | Amps | | | | | | | 100.68 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 818.33 | 818.33 | Amps | | | | | | | 100.68 |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 818.33 | 818.33 | Amps | 105.37 | 103 | 104.31 | 105.69 | 107.18 | | 112.23 |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 277 | 818.33 | 818.33 | Amps | | | | | | 100.18 | 104.89 |
| | | Open Line SKYRANCH 230.00-IMBODEN 230.00 #1 | 278 | 818.33 | 818.33 | Amps | 100.87 | | | | 100.76 | 102.1 | 106.89 |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 279 | 818.33 | 818.33 | Amps | 100.88 | | | | 100.77 | 102.11 | 106.9 |
| | | Open Line SMOKYHIL 230.00-MURPHY 230.00 #1 | 282 | 818.33 | 818.33 | Amps | | | | | | | 100.18 |
| | | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 818.33 | 818.33 | Amps | 101.2 | | | | 101.12 | 102.48 | 107.21 |
| | | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 818.33 | 818.33 | Amps | 101.32 | | | | 100 | 101.25 | 102.6 |
| | | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 818.33 | 818.33 | Amps | 101.4 | | | | 100.09 | 101.33 | 102.69 |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 818.33 | 818.33 | Amps | 100.04 | | | | | 100.19 | 101.6 |
| | | Open Line ST.VRAIN 230.00-SPNDLE 230.00 #1 | 286 | 818.33 | 818.33 | Amps | | | | | | | 103.49 |
| | | Open Line VALMONT 230.00-SIMMS 230.00 #1 | 292 | 818.33 | 818.33 | Amps | | | | | | | 100.28 |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 818.33 | 818.33 | Amps | 103.7 | 101.35 | 102.66 | 104.03 | 105.52 | | 110.55 |
| | | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 818.33 | 818.33 | Amps | 112.46 | 110.12 | 111.56 | 113.07 | 114.68 | | 120.02 |
| | | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 818.33 | 818.33 | Amps | 102.28 | | | | 101.98 | 103.21 | 108.03 |
| | | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 818.33 | 818.33 | Amps | 100.03 | | | | | | 105.9 |
| Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 818.33 | 818.33 | Amps | | | | | | | 100.31 | | |
| Open Xfmr REUNION 115.00/REUNION 230.00 #1 | 353 | 818.33 | 818.33 | Amps | | | | | | | 103.02 | | |
| Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 818.33 | 818.33 | Amps | | | | | | | 100.63 | | |
| SPRINGER 115.00-GLADSTON 115.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 599.94 | 599.94 | Amps | | | | | 243.16 | 286.19 | | |
| SPRINGER 115.00-STORRIE 115.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 512.08 | 512.08 | Amps | | | | | | 103.64 | | |
| SPRINGER 115.00-YORKCANY 115.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 330.85 | 330.85 | Amps | | | | | | 100.25 | | |
| STEGALL 230.00-SIDNEY 230.00 #1 1 | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 800.76 | 800.76 | Amps | | | | | | 103.88 | | |
| VERDE S 230.00-COCONINO 230.00 #1 1 | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 529.66 | 529.66 | Amps | 121.99 | 121.83 | 122.15 | 122.59 | 122.93 | 123.42 | | |
| W CANON 230.00-MIDWAYBR 230.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 599.94 | 599.94 | Amps | | | | | | 108.72 | | |
| | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 599.94 | 599.94 | Amps | | | | | | 109.85 | | |
| WALSENBG 230.00-COMANCHE 230.00 #1 1 | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 1114.54 | 1114.54 | Amps | | | | | 107.69 | 123.12 | | |
| WALSENBG 230.00-WALSENBG 115.00 #1 0 | Open Xfmr WALSENBG 230.00/WALSENBG 115.00 #2 | 341 | 100 | 100 | MVA | | 103.71 | | | | | | |
| WALSENBG 230.00-WALSENBG 115.00 #2 0 | Open Xfmr WALSENBG 230.00/WALSENBG 115.00 #1 | 340 | 100 | 100 | MVA | | 103.94 | | | | | | |
| WINCHSTR 345.00-VAIL 345.00 #1 1 | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | | | | 100.83 | 105.22 | | |
| WINCHSTR 345.00-VAIL 345.00 #1 3 | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | | | | 100.83 | 105.22 | | |
| WRAY 230.00-WRAY 115.00 #1 0 | Drop Generator at DJ GEN 1 16.00 #1, 500 MW Dropped | 404 | 186 | 186 | MVA | | | | | | 143.48 | | |
| | Drop Generator at DJ GEN 2 16.00 #1, 500 MW Dropped | 405 | 186 | 186 | MVA | | | | | | 143.48 | | |
| | Drop Generator at LR GEN 1 16.00 #1, 500 MW Dropped | 409 | 186 | 186 | MVA | | | | | | 143.41 | | |
| | Drop Generator at LR GEN 2 16.00 #1, 500 MW Dropped | 410 | 186 | 186 | MVA | | | | | | 143.41 | | |
| | Open Line ARCHER 345.00-STORY 345.00 #1 | 181 | 186 | 186 | MVA | | | | | | 142.17 | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | | | OVERLOADED ELEMENT | | | | | CONTINGENCY | | | | | | BASECASE | | | | |
|-------|--------------------|-----------------|--------------------|--------|--------|------|---------------|---------------|---------------|---------------|---------------|---------------|--|----------|--|--|--|--|
| WRAY | 230.00-WRAY | 115.00 #1 0 | NO | N RATE | E RATE | UNIT | pre10hs17.sav | pst10r_00.sav | pst10r_05.sav | pst10r_10.sav | pst10r_15.sav | pst10r_20.sav | | | | | | |
| | Open Line B.SANDY | 500.00-BSNDYSC1 | 500.00 #1 | 205 | 186 | 186 | MVA | | | | | 150.28 | | | | | | |
| | Open Line B-A | 345.00-GUADLUPE | 345.00 #1 | 84 | 186 | 186 | MVA | | | | | 142.75 | | | | | | |
| | Open Line BURLNGTN | 230.00-WRAY | 230.00 #1 | 178 | 186 | 186 | MVA | | | | | 142.06 | | | | | | |
| | Open Line BURLNGTN | 500.00-BSNDYSC1 | 500.00 #1 | 200 | 186 | 186 | MVA | | | | | 148.81 | | | | | | |
| | Open Line BURLNGTN | 500.00-LAMAR CO | 500.00 #1 | 391 | 186 | 186 | MVA | | | | | 146.92 | | | | | | |
| | Open Line CORONA | 500.00-FT.CRAIG | 500.00 #2 | 395 | 186 | 186 | MVA | | | | | 144.66 | | | | | | |
| | Open Line DANIELPK | 345.00-COMANCHE | 345.00 #2 | 166 | 186 | 186 | MVA | | | | | 142.03 | | | | | | |
| | Open Line DANIELPK | 345.00-SQUIRLCR | 345.00 #1 | 165 | 186 | 186 | MVA | | | | | 142.7 | | | | | | |
| | Open Line DAVEJOHN | 500.00-LAR.RIVR | 500.00 #1 | 388 | 186 | 186 | MVA | | | | | 141.66 | | | | | | |
| | Open Line EGYCNTR | 500.00-BOONE | 500.00 #1 | 202 | 186 | 186 | MVA | | | | | 142.85 | | | | | | |
| | Open Line FT.CRAIG | 500.00-LUNA | 500.00 #1 | 396 | 186 | 186 | MVA | | | | | 141.71 | | | | | | |
| | Open Line GLADSTON | 500.00-GUADLUPE | 500.00 #2 | 393 | 186 | 186 | MVA | | | | | 151.71 | | | | | | |
| | Open Line GREENVAL | 230.00-B.SANDY | 230.00 #1 | 141 | 186 | 186 | MVA | | | | | 142.2 | | | | | | |
| | Open Line GUADLUPE | 500.00-CORONA | 500.00 #2 | 394 | 186 | 186 | MVA | | | | | 144.58 | | | | | | |
| | Open Line LAMAR CO | 500.00-GLADSTON | 500.00 #1 | 392 | 186 | 186 | MVA | | | | | 153.3 | | | | | | |
| | Open Line LAR.RIVR | 230.00-TEGALL | 230.00 #1 | 180 | 186 | 186 | MVA | | | | | 141.96 | | | | | | |
| | Open Line LAR.RIVR | 345.00-ARCHER | 345.00 #1 | 182 | 186 | 186 | MVA | | | | | 142.47 | | | | | | |
| | Open Line LUNA | 500.00-WINCHSTR | 500.00 #1 | 397 | 186 | 186 | MVA | | | | | 141.99 | | | | | | |
| | Open Line MIDWAYPS | 345.00-WATERTON | 345.00 #1 | 308 | 186 | 186 | MVA | | | | | 141.81 | | | | | | |
| | Open Line N.YUMA | 230.00-WRAY | 230.00 #1 | 184 | 186 | 186 | MVA | | | | | 148.94 | | | | | | |
| | Open Line PAWNEE | 230.00-PTZLOGN | 230.00 #1 | 273 | 186 | 186 | MVA | | | | | 141.68 | | | | | | |
| | Open Line SIDNEY | 230.00-TEGALL | 230.00 #1 | 187 | 186 | 186 | MVA | | | | | 144.59 | | | | | | |
| | Open Line STEGALDC | 230.00-TEGALL | 230.00 #1 | 189 | 186 | 186 | MVA | | | | | 141.67 | | | | | | |
| | Open Line STORY | 345.00-ARCHER | 345.00 #1 | 191 | 186 | 186 | MVA | | | | | 142.17 | | | | | | |
| | Open Line WRAY | 500.00-BURLNGTN | 500.00 #1 | 390 | 186 | 186 | MVA | | | | | 148.04 | | | | | | |
| | Open Xfmr GUADLUPE | 500.00/GUADLUPE | 345.00 #1 | 373 | 186 | 186 | MVA | | | | | 141.83 | | | | | | |
| | Open Xfmr MIDWAYPS | 230.00/MIDWAYPS | 345.00 #T1 | 328 | 186 | 186 | MVA | | | | | 141.85 | | | | | | |
| | Open Xfmr WATERTON | 230.00/WATERTON | 345.00 #T1 | 344 | 186 | 186 | MVA | | | | | 142 | | | | | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingenc |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | | | |
|-------|----------------------------------|---|-----|---------|---------|------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|---------------|
| | | | | | | | pre10hs17.sav | pst10b_00.sav | pst10b_05.sav | pst10b_10.sav | pst10b_15.sav | pst10b_20.sav | pst10b_25.sav | pst10b_30.sav |
| | WINCHSTR 345.00-VAIL 345.00 #1 1 | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | | | | 100.38 | 103.24 | 106.69 | 110.55 |
| | WINCHSTR 345.00-VAIL 345.00 #1 2 | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1499.44 | 2024.91 | Amps | | | | | | | | 101.42 |
| | WINCHSTR 345.00-VAIL 345.00 #1 3 | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | | | | 100.38 | 103.24 | 106.69 | 110.55 |
| | WRAY 230.00-WRAY 115.00 #1 0 | Drop Generator at DJ GEN 1 16.00 #1, 500 MW Dropped | 404 | 186 | 186 | MVA | | | | 135.67 | 134.2 | 137.36 | 134.61 | 132.41 |
| | | Drop Generator at DJ GEN 2 16.00 #1, 500 MW Dropped | 405 | 186 | 186 | MVA | | | | | 134.2 | 137.36 | 134.61 | 132.41 |
| | | Drop Generator at DJ GEN 3 16.00 #1, 500 MW Dropped | 406 | 186 | 186 | MVA | | | | | | | 134.61 | 132.41 |
| | | Drop Generator at LR GEN 1 16.00 #1, 500 MW Dropped | 409 | 186 | 186 | MVA | | | | 135.48 | 133.97 | 137.34 | 134.59 | 132.46 |
| | | Drop Generator at LR GEN 2 16.00 #1, 500 MW Dropped | 410 | 186 | 186 | MVA | | | | | | 137.34 | 134.59 | 132.46 |
| | | Drop Generator at LR GEN 3 16.00 #1, 500 MW Dropped | 411 | 186 | 186 | MVA | | | | | | | | 132.46 |
| | | Open Line ARCHER 345.00-STORY 345.00 #1 | 181 | 186 | 186 | MVA | | | | 135.47 | 133.56 | 136.51 | 133.08 | 130.63 |
| | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 186 | 186 | MVA | | 143.95 | | 142.51 | 140.93 | 143.74 | 140.71 | 138.66 |
| | | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 186 | 186 | MVA | | | | | 133.29 | 136.35 | 133.05 | 130.76 |
| | | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 186 | 186 | MVA | | | | | 133.51 | 136.91 | 133.74 | 131.5 |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 186 | 186 | MVA | | | | | | | 139.2 | 137.2 |
| | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 186 | 186 | MVA | | | 142.63 | | 141.25 | 139.43 | 142.46 | 139.2 |
| | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 186 | 186 | MVA | | | 137.92 | | 136.49 | 134.83 | 137.62 | 134.46 |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 186 | 186 | MVA | | | | | | 136.2 | 132.73 | 130.28 |
| | | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 186 | 186 | MVA | | | 137.46 | | 135.6 | 133.62 | 136.62 | 133.16 |
| | | Open Line FT.CRAIG 500.00-LUNA 500.00 #1 | 396 | 186 | 186 | MVA | | | | | | | 136.19 | 132.87 |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 186 | 186 | MVA | | | | | | | | 130.32 |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 383 | 186 | 186 | MVA | | | | | | | | 130.32 |
| | | Open Line LAMAR CO 230.00-LAMAR DC 230.00 #1 | 149 | 186 | 186 | MVA | | | | | | | | 137.85 |
| | | Open Line LAMAR CO 500.00-LAMAR DC 500.00 #1 | 392 | 186 | 186 | MVA | | | | | | | | 135.84 |
| | | Open Line LAR.RIVR 230.00-STEGALL 230.00 #1 | 180 | 186 | 186 | MVA | | | | | 135.84 | 134.24 | 137.15 | 133.95 |
| | | Open Line LAR.RIVR 345.00-ARCHER 345.00 #1 | 182 | 186 | 186 | MVA | | | | | 135.64 | 133.71 | 136.66 | 133.19 |
| | | Open Line LUNA 500.00-WINCHSTR 500.00 #1 | 397 | 186 | 186 | MVA | | | | | 136.67 | 134.64 | 137.36 | 133.72 |
| | | Open Line N.YUMA 230.00-WRAY 230.00 #1 | 184 | 186 | 186 | MVA | | | | | | | 136.2 | 132.93 |
| | | Open Line PAWNEE 230.00-STORY 230.00 #1 | 158 | 186 | 186 | MVA | | | | | | | 137.4 | 135.02 |
| | | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 186 | 186 | MVA | | | | | | | | 146.34 |
| | | Open Line SIDNEY 230.00-STEGALL 230.00 #1 | 187 | 186 | 186 | MVA | | | | | | | 139.79 | 137.4 |
| | | Open Line STORY 345.00-ARCHER 345.00 #1 | 191 | 186 | 186 | MVA | | | | | 142.95 | 139.73 | 143 | 137.86 |
| | | Open Line STORY 230.00-PAWNEE 230.00 #1 | 306 | 186 | 186 | MVA | | | | | 135.78 | 133.72 | 136.33 | 132.73 |
| | | Open Line WESTHILL 230.00-STEGALL 230.00 #1 | 179 | 186 | 186 | MVA | | | | | | | | 137.4 |
| | | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 186 | 186 | MVA | | | | | | | 139.03 | 141.25 |
| | | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 186 | 186 | MVA | | | | | | | | 130.23 |
| | | Open Xfmr LAMAR CO 500.00/LAMAR CO 230.00 #1 | 403 | 186 | 186 | MVA | | | | | | | | 138.31 |
| | | Open Xfmr LAR.RIVR 500.00/LAR.RIVR 345.00 #1 | 399 | 186 | 186 | MVA | | | | | | | | 135.39 |
| | | Open Xfmr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | 186 | 186 | MVA | | | | | | | | 133.72 |
| | | | | | | | | | | | | | | 139.72 |
| | | | | | | | | | | | | | | 137.72 |
| | | | | | | | | | | | | | | 135.83 |
| | | | | | | | | | | | | | | 139.07 |
| | | | | | | | | | | | | | | 135.55 |
| | | | | | | | | | | | | | | 133.06 |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | |
|----------|------------------------------|--|-----|---------|---------|------|---------------|---------------|------------------|------------------|
| | | | | | | | pre10hs17.sav | pst10l_20.sav | pst10l_20sc5.sav | pst10l_20sc7.sav |
| APT TAP2 | 115.00-APT MEM 115.00 #1 1 | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 497.02 | 497.02 | Amps | 100.57 | | | |
| | | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 497.02 | 497.02 | Amps | | 100.21 | 111.32 | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 497.02 | 497.02 | Amps | 101.68 | | | |
| APT TAP2 | 115.00-DOT TAP 115.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 497.02 | 497.02 | Amps | | 100.21 | 111.32 | |
| AUSTIN_N | 115.00-DYER 115.00 #1 1 | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 590.91 | 800.26 | Amps | 101.63 | | 100.67 | 100.64 |
| BEAVERCK | 115.00-B.CK PS 115.00 #1 1 | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 1601.52 | 1601.52 | Amps | | | | 101.07 |
| BEAVERCK | 230.00-STORY 230.00 #1 1 | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 1109.52 | 1109.52 | Amps | | | 117.21 | 129.56 |
| BIGGS | 115.00-NEWMAN 115.00 #1 1 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 590.91 | 800.26 | Amps | 101.27 | 101.91 | 102.31 | 102.3 |
| BOONE | 500.00-BOONE 230.00 #1 0 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 450 | 0 | MVA | | | 101.3 | |
| BOONE | 500.00-BOONE 230.00 #2 0 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 450 | 0 | MVA | | | 101.3 | |
| COPPERVR | 345.00-COPPERVR 230.00 #1 0 | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 200 | 224 | MVA | 106.45 | 106.57 | 106.7 | 106.73 |
| | | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 200 | 224 | MVA | 134.88 | 139.02 | 137.78 | 136.71 |
| | | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 200 | 224 | MVA | 101.38 | 105.73 | 103.94 | 102.45 |
| | | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 200 | 224 | MVA | 134.3 | 138.43 | 137.19 | 136.12 |
| | | Open Line MORENCI 230.00-PD-MORNC 230.00 #1 | 51 | 200 | 224 | MVA | 100.59 | 100.64 | 100.69 | 100.7 |
| DANIELPK | 345.00-DANIELPK 230.00 #1 0 | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 560 | 560 | MVA | | 101.58 | 107.33 | 109.11 |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 560 | 560 | MVA | | 101.58 | 107.33 | 109.11 |
| | | Open Line DAVEJOHN 500.00-LAR.RIVR 500.00 #1 | 388 | 1109.52 | 1109.52 | Amps | | | | 108.01 |
| DOT TAP | 115.00-BOONE 115.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 497.02 | 497.02 | Amps | | 102.78 | 113.89 | |
| EAST_TAP | 115.00-LAWRNCET 115.00 #1 1 | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 783.19 | 798.25 | Amps | | 102.22 | 102.25 | 102.02 |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #1 1 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1499.44 | 1650.05 | Amps | 124.02 | 138.98 | 133.37 | 128.97 |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #1 2 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1250.09 | 1680.17 | Amps | 121.8 | 136.49 | 130.98 | 126.66 |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #2 1 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1999.97 | 1999.81 | Amps | 102.32 | 114.67 | 110.04 | 106.41 |
| FLAGSTAF | 345.00-PINPKBRB 345.00 #2 2 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1250.09 | 1680.17 | Amps | 121.79 | 136.49 | 130.98 | 126.65 |
| FOURC1AA | 100.00-FOURCORN 500.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116.01 | | | |
| FOURCORN | 345.00-FOURC1AA 100.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116.49 | | | |
| FT.CRAIG | 345.00-FT.CRAIG 500.00 #1 0 | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 840 | 1200 | MVA | | | | 108.93 |
| FTLUPTON | 230.00-FTLUPTON 115.00 #T3 0 | Open Line ARAPAHOE 230.00-SANTEFE 230.00 #1 | 212 | 280 | 280 | MVA | 103.36 | 110.84 | 108.76 | 107.41 |
| | | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 280 | 280 | MVA | 103.19 | 110.82 | 108.64 | 107.24 |
| | | Open Line B.SANDY 500.00-BOONE 500.00 #1 | 377 | 280 | 280 | MVA | | 111.55 | 110.91 | |
| | | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 280 | 280 | MVA | 105.45 | 113.16 | 110.88 | 109.4 |
| | | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 280 | 280 | MVA | 106.25 | 113.97 | 111.7 | 110.2 |
| | | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 280 | 280 | MVA | | 111.59 | 110.81 | |
| | | Open Line BRICKCTR 345.00-DANIELPK 345.00 #1 | 162 | 280 | 280 | MVA | 102.97 | 110.7 | 108.47 | 107.02 |
| | | Open Line BRICKCTR 345.00-DANIELPK 345.00 #2 | 163 | 280 | 280 | MVA | 102.97 | 110.7 | 108.47 | 107.02 |
| | | Open Line BUCKLY34 230.00-SMOKYHIL 230.00 #1 | 213 | 280 | 280 | MVA | 103.71 | 111.31 | 109.14 | 107.75 |
| | | Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | 214 | 280 | 280 | MVA | 103.71 | 111.31 | 109.14 | 107.74 |
| | | Open Line CHATFLD 230.00-WATERTON 230.00 #1 | 226 | 280 | 280 | MVA | 103.33 | 110.78 | 108.74 | 107.41 |
| | | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 280 | 280 | MVA | 107.3 | 116.31 | 113.32 | 111.43 |
| | | Open Line CHEROKEE 230.00-LACOMBE 230.00 #1 | 228 | 280 | 280 | MVA | 103.66 | 111.48 | 109.08 | 107.55 |
| | | Open Line CHEROKEE 230.00-RIDGE 230.00 #1 | 229 | 280 | 280 | MVA | 103.05 | 110.75 | 108.52 | 107.07 |
| | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 280 | 280 | MVA | 107.33 | 115.92 | 113.15 | 111.4 |
| | | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 280 | 280 | MVA | 105.39 | 113.1 | 110.82 | 109.34 |
| | | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 280 | 280 | MVA | | 108.42 | | |
| | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 280 | 280 | MVA | 103.27 | 110.97 | 108.91 | 107.58 |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 280 | 280 | MVA | 103.85 | 111.69 | 109.72 | 108.44 |
| | | Open Line DANIELPK 230.00-BRICKCTR 230.00 #1 | 240 | 280 | 280 | MVA | | 110.5 | 108.28 | 106.85 |
| | | Open Line DANIELPK 230.00-SANTEFE 230.00 #1 | 239 | 280 | 280 | MVA | 103.45 | 110.94 | 108.86 | 107.51 |
| | | Open Line DENVTM 230.00-LACOMBE 230.00 #1 | 243 | 280 | 280 | MVA | 103.28 | 111.09 | 108.7 | 107.17 |
| | | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 280 | 280 | MVA | 104.22 | 111.14 | 108.55 | |
| | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 280 | 280 | MVA | 111.58 | 120.22 | 117.44 | 115.66 |
| | | Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 280 | 280 | MVA | 115.61 | 124.72 | 121.7 | 119.76 |
| | | Open Line FULLER 230.00-DANIELPK 230.00 #1 | 307 | 280 | 280 | MVA | 102.93 | | | 106.91 |
| | | Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 280 | 280 | MVA | 110.96 | 120.03 | 117.02 | 115.11 |
| | | Open Line GREENVAL 230.00-FTLUPTON 230.00 #1 | 217 | 280 | 280 | MVA | 104.66 | 113.88 | 110.74 | 108.85 |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | |
|-------|---------------------------------------|---|-----|--------|--------|------|---------------|---------------|------------------|------------------|
| | | | | | | | pre10hs17.sav | pst10l_20.sav | pst10l_20sc5.sav | pst10l_20sc7.sav |
| | FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 280 | 280 | MVA | 103.95 | 111.64 | 109.3 | 107.81 |
| | | Open Line GREENVAL 230.00-SKYRANCH 230.00 #1 | 218 | 280 | 280 | MVA | 103.7 | 111.38 | 109.06 | 107.58 |
| | | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 280 | 280 | MVA | 104.44 | 112.18 | 109.8 | 108.28 |
| | | Open Line GREENVAL 230.00-ST.VRAIN 230.00 #1 | 219 | 280 | 280 | MVA | 103.34 | 111.19 | 108.55 | 106.96 |
| | | Open Line GREENWD 230.00-MONACO12 230.00 #1 | 256 | 280 | 280 | MVA | 103.41 | 110.87 | 108.84 | 107.51 |
| | | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 280 | 280 | MVA | | | 108.46 | |
| | | Open Line JEWELL2 230.00-TOLGATE 230.00 #1 | 260 | 280 | 280 | MVA | 103.01 | 110.61 | 108.44 | 107.03 |
| | | Open Line LAR.RIVR 500.00-PAWNEE 500.00 #1 | 414 | 280 | 280 | MVA | | | | 106.97 |
| | | Open Line LEETSDAL 230.00-MONACO12 230.00 #1 | 263 | 280 | 280 | MVA | 103.27 | 110.73 | 108.7 | 107.37 |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 153 | 280 | 280 | MVA | 103.89 | 112.22 | 109.18 | 107.36 |
| | | Open Line LEGGETT 230.00-NIWOT 230.00 #1 | 264 | 280 | 280 | MVA | 105.72 | 114.07 | 111.02 | 109.19 |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 265 | 280 | 280 | MVA | 103.89 | 112.22 | 109.18 | 107.36 |
| | | Open Line MEADOWHL 230.00-SMOKYHIL 230.00 #1 | 270 | 280 | 280 | MVA | 103.02 | 110.65 | 108.4 | 106.96 |
| | | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 280 | 280 | MVA | 103.09 | 110.73 | 108.51 | 107.06 |
| | | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 280 | 280 | MVA | | | 108.32 | 106.93 |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 280 | 280 | MVA | 103.58 | 110.98 | 108.98 | 107.69 |
| | | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 280 | 280 | MVA | 108.16 | 116.5 | 113.46 | 111.6 |
| | | Open Line PAWNEE 230.00-STORY 230.00 #1 | 158 | 280 | 280 | MVA | | | 108.27 | 106.89 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 280 | 280 | MVA | 105.55 | 113.44 | 111.27 | 109.74 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 280 | 280 | MVA | 105.55 | 113.44 | 111.27 | 109.74 |
| | | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 280 | 280 | MVA | | 112.09 | 113.52 | 114.65 |
| | | Open Line QUINCY 230.00-BRICKCTR 230.00 #1 | 275 | 280 | 280 | MVA | 103.26 | 110.81 | 108.66 | 107.26 |
| | | Open Line QUINCY 230.00-SMOKYHIL 230.00 #1 | 274 | 280 | 280 | MVA | 103.24 | 110.79 | 108.64 | 107.25 |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 280 | 280 | MVA | 110.18 | 118.8 | 116.03 | 114.25 |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 280 | 280 | MVA | 103.06 | 110.63 | 108.38 | 106.87 |
| | | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 280 | 280 | MVA | 105.85 | 113.56 | 111.29 | 109.8 |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 277 | 280 | 280 | MVA | 103.56 | 111.23 | 108.92 | 107.44 |
| | | Open Line SKYRANCH 230.00-IMBODEN 230.00 #1 | 278 | 280 | 280 | MVA | 103.9 | 111.59 | 109.26 | 107.77 |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 279 | 280 | 280 | MVA | 103.9 | 111.6 | 109.26 | 107.77 |
| | | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 280 | 280 | MVA | 103.66 | 111.34 | 109.02 | 107.54 |
| | | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 280 | 280 | MVA | 103.68 | 111.36 | 109.04 | 107.56 |
| | | Open Line SODALAKE 230.00-CHATFLD 230.00 #1 | 209 | 280 | 280 | MVA | 102.91 | | 108.31 | 106.97 |
| | | Open Line SPRUCE 230.00-CHAMBERS 230.00 #1 | 300 | 280 | 280 | MVA | 102.92 | 110.51 | 108.28 | 106.86 |
| | | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 280 | 280 | MVA | 103.69 | 111.38 | 109.05 | 107.57 |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 280 | 280 | MVA | 108.36 | 116.7 | 113.66 | 111.81 |
| | | Open Line ST.VRAIN 230.00-SPNDLE 230.00 #1 | 286 | 280 | 280 | MVA | 107.55 | 116.63 | 112.7 | 110.47 |
| | | Open Line STORY 230.00-PAWNEE 230.00 #1 | 306 | 280 | 280 | MVA | | | 108.27 | 106.89 |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 280 | 280 | MVA | 117.58 | 126.74 | 122.71 | 120.39 |
| | | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 280 | 280 | MVA | 114.9 | 124.01 | 120.99 | 119.05 |
| | | Open Xfmr ARAPAHOB 115.00/ARAPAHOE 230.00 #T5 | 311 | 280 | 280 | MVA | 103.65 | 111.22 | 109.03 | 107.64 |
| | | Open Xfmr BRICKCTR 115.00/BRICKCTR 230.00 #T1 | 351 | 280 | 280 | MVA | 102.96 | 110.53 | 108.31 | 106.9 |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #1 | 349 | 280 | 280 | MVA | 102.92 | 110.5 | 108.29 | 106.88 |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #2 | 350 | 280 | 280 | MVA | 102.92 | 110.5 | 108.29 | 106.88 |
| | | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 280 | 280 | MVA | 105.92 | 113.56 | 111.35 | 109.92 |
| | | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A1 | 312 | 280 | 280 | MVA | 104.29 | 111.98 | 109.73 | 108.3 |
| | | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A2 | 313 | 280 | 280 | MVA | 104.28 | 111.97 | 109.72 | 108.29 |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 280 | 280 | MVA | 103.11 | 110.69 | 108.5 | 107.1 |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 280 | 280 | MVA | 103.11 | 110.69 | 108.5 | 107.1 |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 280 | 280 | MVA | 103.11 | 110.69 | 108.5 | 107.1 |
| | | Open Xfmr DENVTM 115.00/DENVTM 230.00 #T2 | 322 | 280 | 280 | MVA | 103.7 | 111.26 | 109.08 | 107.7 |
| | | Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 280 | 280 | MVA | | | | 106.87 |
| | | Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 280 | 280 | MVA | 103.01 | 110.62 | 108.37 | 106.94 |
| | | Open Xfmr LEETSDAL 115.00/LEETSDAL 230.00 #T4 | 324 | 280 | 280 | MVA | 104.34 | 111.86 | 109.75 | 108.41 |
| | | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 280 | 280 | MVA | 103.43 | 110.83 | 108.81 | 107.53 |
| | | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #1 | 329 | 280 | 280 | MVA | 103 | 110.64 | 108.42 | 106.99 |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|----------|------------------------------|---|-----------------------------|--|---------|------|---------------|---------------|------------------|------------------|--|--|
| | | | | | | | pre10hs17.sav | pst10l_20.sav | pst10l_20sc5.sav | pst10l_20sc7.sav | | |
| FTLUPTON | 230.00-FTLUPTON 115.00 #T3 0 | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #2 | 331 | 280 | 280 | MVA | 103 | 110.64 | 108.42 | 106.99 | | |
| | | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #3 | 330 | 280 | 280 | MVA | 103 | 110.64 | 108.42 | 106.99 | | |
| | | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T1 | 332 | 280 | 280 | MVA | 103.24 | 110.82 | 108.6 | 107.2 | | |
| | | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T2 | 333 | 280 | 280 | MVA | 103.25 | 110.83 | 108.61 | 107.21 | | |
| | | Open Xfmr SODALAKE 115.00/SODALAKE 230.00 #T2 | 336 | 280 | 280 | MVA | 103.17 | 110.73 | 108.51 | 107.1 | | |
| | | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T1 | 338 | 280 | 280 | MVA | 105.81 | 113.53 | 111.08 | 109.57 | | |
| | | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T2 | 339 | 280 | 280 | MVA | 105.81 | 113.53 | 111.08 | 109.57 | | |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 280 | 280 | MVA | 103.52 | 110.91 | 108.89 | 107.63 | | |
| | | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 599.94 | 599.94 | Amps | | 156.35 | 137.6 | 121.06 | | |
| | | Open Line B-A 345.00-NORTON 345.00 #1 | 85 | 599.94 | 599.94 | Amps | | 130.21 | 119.6 | 107.26 | | |
| GLADSTON | 115.00-SPRINGER 115.00 #1 1 | Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | 599.94 | 599.94 | Amps | | 123.27 | 110.89 | | | |
| | | Open Line CF&FURN 230.00-COMANCHE 230.00 #1 | 145 | 599.94 | 599.94 | Amps | | 125.14 | 112.43 | | | |
| | | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 599.94 | 599.94 | Amps | | 124.17 | 114.5 | 102.83 | | |
| | | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 599.94 | 599.94 | Amps | | 164.73 | 180.5 | | | |
| | | Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | 599.94 | 599.94 | Amps | | 124.42 | 111.41 | | | |
| | | Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | 599.94 | 599.94 | Amps | | 124.47 | 111.43 | | | |
| | | Open Line DAVEJOHN 230.00-DIFICULT 230.00 #1 | 131 | 599.94 | 599.94 | Amps | | | 111.76 | | | |
| | | Open Line FOURCORN 500.00-FCW 500.00 #1 | 66 | 599.94 | 599.94 | Amps | | | 110.25 | | | |
| | | Open Line FT.CRAIG 345.00-ARROYO 345.00 #1 | 369 | 599.94 | 599.94 | Amps | | 121.8 | 110.68 | | | |
| | | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 599.94 | 599.94 | Amps | | 123.75 | 120.41 | 118.8 | | |
| | | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 599.94 | 599.94 | Amps | | 124.55 | 114.77 | 102.94 | | |
| | | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 599.94 | 599.94 | Amps | | 165.73 | 181.18 | | | |
| | | Open Line HIDALGO 345.00-GREENLEE 345.00 #1 | 99 | 599.94 | 599.94 | Amps | | 120.56 | 109.62 | | | |
| | | Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | 599.94 | 599.94 | Amps | | 123.97 | 110.91 | | | |
| | | Open Line OJO 345.00-TAOS 345.00 #1 | 92 | 599.94 | 599.94 | Amps | | 125.39 | 115.43 | 104.18 | | |
| | | Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | 599.94 | 599.94 | Amps | | 123.72 | 110.75 | | | |
| | | Open Line SAN JUAN 345.00-OJO 345.00 #1 | 358 | 599.94 | 599.94 | Amps | | 145.64 | 136.3 | 124.73 | | |
| | | Open Line SAN JUAN 345.00-RIOPUERCO 345.00 #1 | 113 | 599.94 | 599.94 | Amps | | | 112.24 | | | |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 599.94 | 599.94 | Amps | | 127.24 | 114.41 | 100.52 | | |
| | | Open Line SPRINGR 345.00-CORONADO 345.00 #1 | 32 | 599.94 | 599.94 | Amps | | 120.81 | 110.27 | | | |
| | | Open Line SPRINGR 500.00-SES 500.00 #1 | 383 | 599.94 | 599.94 | Amps | | 120.84 | 112.52 | 104.18 | | |
| | | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 599.94 | 599.94 | Amps | | | 110.9 | | | |
| | | Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 599.94 | 599.94 | Amps | | 125.47 | | | | |
| | | Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | 599.94 | 599.94 | Amps | | 131.77 | 121.98 | 109.1 | | |
| | | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 599.94 | 599.94 | Amps | | 138.4 | 123.54 | 103.67 | | |
| | | GLADSTON | 230.00-GLADSTON 115.00 #1 0 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 200 | 200 | MVA | | 106 | | |
| | | | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 200 | 200 | MVA | | 106 | | |
| GLADSTON | 230.00-GLADSTON 115.00 #2 0 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1999.97 | 1680.17 | Amps | 122.75 | 137.81 | 132.13 | 127.67 | | |
| | | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1840.83 | 2024.91 | Amps | 101.86 | 114.35 | 109.63 | 105.93 | | |
| GLENCANY | 345.00-FLAGSTAF 345.00 #1 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1250.09 | 1680.17 | Amps | 122.53 | 137.59 | 131.91 | 127.45 | | |
| | | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1840.83 | 2024.91 | Amps | 101.67 | 114.17 | 109.45 | 105.75 | | |
| GLENCANY | 345.00-FLAGSTAF 345.00 #2 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1840.83 | 2024.91 | Amps | 101.67 | 114.17 | 109.45 | 105.75 | | |
| | | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1840.83 | 2024.91 | Amps | 101.67 | 114.17 | 109.45 | 105.75 | | |
| GR | 115.00-VISTA_# 115.00 #1 1 | Open Line CALIENTE 345.00-NC1 345.00 #1 | 74 | 590.91 | 800.26 | Amps | 149.06 | 152.4 | 153.08 | 153.06 | | |
| | | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 150 | 193 | MVA | 108.88 | 109.01 | 109.16 | 109.19 | | |
| GREEN-AE | 345.00-GREEN-AE 230.00 #1 0 | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 150 | 193 | MVA | 156.07 | 160.93 | 159.46 | 158.2 | | |
| | | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 150 | 193 | MVA | 155.75 | 160.61 | 159.14 | 157.88 | | |
| | | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 150 | 193 | MVA | 103.74 | 109.07 | 106.91 | 105.09 | | |
| | | Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 150 | 193 | MVA | 132.42 | 137.36 | 135.91 | 134.64 | | |
| | | Open Line RED TAIL 230.00-DOSCONDO 230.00 #1 | 55 | 150 | 193 | MVA | | 100.01 | 100.12 | 100.14 | | |
| | | Open Line RED TAIL 230.00-DOSCONDO 230.00 #1 | 55 | 150 | 193 | MVA | | 100.01 | 100.12 | 100.14 | | |
| GUADLUPE | 345.00-B-A 345.00 #1 1 | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 1800.66 | 1800.66 | Amps | | | 121.36 | | | |
| | | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 1800.66 | 1800.66 | Amps | | | 121.72 | | | |
| JLGREEN | 230.00-FTLUPTON 230.00 #1 1 | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 1242.56 | 1242.56 | Amps | | 101.93 | | | | |
| | | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 1242.56 | 1242.56 | Amps | | 104.4 | | | | |
| | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 1242.56 | 1242.56 | Amps | | 104.4 | | | | |
| | | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 1242.56 | 1242.56 | Amps | | 101.75 | | | | |
| | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 1242.56 | 1242.56 | Amps | 100 | 112.42 | 105.83 | 101.51 | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| |
|---|
| High Plains Express Contingency |
| At least a 3% decrease from previous case |
| Change of less than +/- 3% from previous case |
| At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | |
|--------------------------------------|-----------------------------|---|-----|---------|---------|------|---------------|---------------|------------------|------------------|--|
| | | | | | | | pre10hs17.sav | pst10l_20.sav | pst10l_20sc5.sav | pst10l_20sc7.sav | |
| JLGREEN | 230.00-FTLUPTON 230.00 #1 1 | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 1242.56 | 1242.56 | Amps | | 100.85 | | | |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 1242.56 | 1242.56 | Amps | | 109.75 | 103.18 | | |
| | | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 1242.56 | 1242.56 | Amps | | 103.16 | | | |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 1242.56 | 1242.56 | Amps | | 101.13 | | | |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1242.56 | 1242.56 | Amps | | 104.88 | | | |
| | | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 1242.56 | 1242.56 | Amps | | 104.95 | | | |
| LAJUNTAW | 115.00-LAJUNTAW 69.00 #1 0 | Open Line DAVEJOHN 500.00-LAR.RIVR 500.00 #1 | 388 | 25 | 25 | MVA | | | | 103.07 | |
| | | Open Line LAMAR CO 230.00-LAMAR DC 230.00 #1 | 149 | 25 | 25 | MVA | | | | 103.59 | |
| | | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 25 | 25 | MVA | | | | 105.64 | |
| LAMAR CO | 230.00-LAMAR CO 115.00 #1 0 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 100 | 100 | MVA | 113.02 | 111.32 | 112.59 | 110.42 | |
| | | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 100 | 100 | MVA | 112.11 | | | | |
| | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 100 | 100 | MVA | 129.74 | 124.97 | 123.24 | 126.41 | |
| | | Open Line B.SANDY 500.00-BOONE 500.00 #1 | 377 | 100 | 100 | MVA | | 116.53 | 122.93 | | |
| | | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 100 | 100 | MVA | | | | 110.46 | |
| | | Open Line BOONE 230.00-LAMAR CO 230.00 #1 | 143 | 100 | 100 | MVA | 123.9 | 123.26 | 124.45 | 122.28 | |
| | | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 100 | 100 | MVA | | 118.49 | 120.99 | | |
| | | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 100 | 100 | MVA | 113.28 | | | 110.54 | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 100 | 100 | MVA | 130.65 | 125.94 | 123.42 | | |
| | | Open Line BURLNGTN 500.00-BURLSC1 500.00 #1 | 199 | 100 | 100 | MVA | 114.06 | 114.04 | 115.14 | 114.08 | |
| | | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 100 | 100 | MVA | 117.32 | 114.24 | 115.74 | 114.72 | |
| | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 100 | 100 | MVA | 115.66 | 115.89 | 115.42 | | |
| | | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 100 | 100 | MVA | | | | 110.32 | |
| | | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 100 | 100 | MVA | 148.34 | 134.26 | 129.32 | | |
| | | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 100 | 100 | MVA | 118.03 | 115.04 | 115.95 | 116.52 | |
| | | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 100 | 100 | MVA | | | | 111.36 | |
| | | Open Line FTLUPTON 230.00-PAWNEE 230.00 #1 | 247 | 100 | 100 | MVA | | 111.02 | | 110.46 | |
| | | Open Line FTLUPTON 230.00-PAWNEE 230.00 #2 | 248 | 100 | 100 | MVA | | 111.02 | | 110.46 | |
| | | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 100 | 100 | MVA | 114.22 | 111.31 | | 110.59 | |
| | | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 100 | 100 | MVA | 113.99 | 112.27 | 113.49 | 111.19 | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 100 | 100 | MVA | 112 | 112.11 | 113.43 | 111.4 | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 100 | 100 | MVA | 112 | 112.11 | 113.43 | 111.4 | |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 100 | 100 | MVA | | 111.25 | | 110.15 | |
| | | Open Xfmr BOONE 115.00/BOONE 230.00 #1 | 355 | 100 | 100 | MVA | 132.53 | 126.82 | 129.05 | 126.88 | |
| | | Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A1 | 314 | 100 | 100 | MVA | 112.89 | 112.19 | 113.56 | 111.06 | |
| | | Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A2 | 315 | 100 | 100 | MVA | 112.92 | 112.22 | 113.59 | 111.09 | |
| | | Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 100 | 100 | MVA | | 111.19 | | | |
| | | Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | 100 | 100 | MVA | | | | 110.19 | |
| | | Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 100 | 100 | MVA | | 111.36 | 113.11 | 111.38 | |
| | | Open Xfmr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | 100 | 100 | MVA | | 113.72 | 116.97 | 119.22 | |
| | | Open Line LAR.RIVR 500.00-PAWNEE 500.00 #1 | 414 | 1599.85 | 1599.85 | Amps | | 116.71 | 114.12 | 118.63 | |
| | | LAR.RIVR 345.00-AULT 345.00 #1 1 | | | | | | | | | |
| | | LAR.RIVR 345.00-LAR.RIVR 500.00 #1 0 | | | | | | | | | |
| LAR.RIVR 500.00-LAR.RIVR 345.00 #1 0 | | | | | | | | | | | |
| LUDLOTAP 115.00-WALSENBG 115.00 #1 1 | | | | | | | | | | | |
| LUNA 345.00-LUNA 115.00 #1 0 | | | | | | | | | | | |
| MIDWAYBR | 230.00-RD_NIXON 230.00 #1 1 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 1209.93 | 1209.93 | Amps | 107.21 | | 101.22 | 103 | |
| | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 1209.93 | 1209.93 | Amps | 102.82 | | | | |
| | | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 1209.93 | 1209.93 | Amps | | | 104.58 | | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 1209.93 | 1209.93 | Amps | 103.44 | | | | |
| | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 1209.93 | 1209.93 | Amps | 100.31 | | | | |
| | | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 1209.93 | 1209.93 | Amps | 101.85 | | | | |
| | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 1209.93 | 1209.93 | Amps | 105.66 | | | 100.67 | |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 1209.93 | 1209.93 | Amps | 110.61 | | 102.57 | 105.02 | |
| | | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 1209.93 | 1209.93 | Amps | 101.06 | | | | |
| | | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 1209.93 | 1209.93 | Amps | 103.41 | | | | |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 1209.93 | 1209.93 | Amps | | | 100.52 | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|--------------------------------------|--------------------|---|-----|--|---------|--------|---------------|---------------|------------------|------------------|--|--|
| | | | | | | | pre10hs17.sav | pst10l_20.sav | pst10l_20sc5.sav | pst10l_20sc7.sav | | |
| MIDWAYBR 230.00-RD_NIXON 230.00 #1 1 | | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 1209.93 | 1209.93 | Amps | | | 100.27 | | | |
| | | Open Xfmr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | 1209.93 | 1209.93 | Amps | | | 100.65 | 104.53 | | |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 1209.93 | 1209.93 | Amps | | | 100.17 | | | |
| MURPHY 230.00-SMOKYHIL 230.00 #1 1 | | Open Line DANIELPK 230.00-SURREYRG 230.00 #1 | 235 | 853.47 | 853.47 | Amps | | 100.01 | | | | |
| NEWMAN 115.00-NEWMAN_B 345.00 #1 0 | | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 101.84 | 109.57 | 111.43 | 111.4 | | |
| NEWMAN_B 345.00-NEWMAN 345.00 #1 0 | | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 100.98 | 108.65 | 110.29 | 110.26 | | |
| OJO 345.00-OJO 115.00 #1 0 | | Open Line FOURCORN 345.00-WESTMESA 345.00 #1 | 357 | 180 | 180 | MVA | 103.46 | | | | | |
| P.VALLEY 115.00-TODD CRE 115.00 #1 1 | | Open Line OJO 345.00-TAOS 345.00 #1 | 92 | 180 | 180 | MVA | 107.43 | | | | | |
| | | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 676.75 | 676.75 | Amps | 105.04 | 104.53 | 105.64 | 105.85 | | |
| PAWNEE 230.00-STORY 230.00 #1 1 | | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 1568.89 | 1568.89 | Amps | | | 114.21 | | | |
| PAWNEE 500.00-PAWNEE 230.00 #1 0 | | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 1120 | 1792 | MVA | | | 102.26 | 143.32 | | |
| PNPKAPS 230.00-PINPK 230.00 #1 1 | | Open Line RACEWAY 500.00-PNPKAPS 500.00 #r1 | 109 | 1691.89 | 1998.13 | Amps | 113.5 | 114.39 | 113.63 | 113.31 | | |
| PORTLAND 115.00-W.STATON 115.00 #1 1 | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 401.63 | 401.63 | Amps | | 136.35 | | | | |
| RD_NIXON 230.00-MIDWAYBR 230.00 #1 1 | | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 1209.93 | 1209.93 | Amps | 100.27 | | | | | |
| | | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 1209.93 | 1209.93 | Amps | 100.6 | | | | | |
| | | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 1209.93 | 1209.93 | Amps | 100.77 | | | | | |
| | | Open Line GLADSTON 230.00-WALSENGB 230.00 #1 | 115 | 1209.93 | 1209.93 | Amps | 100.19 | | | | | |
| | | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 1209.93 | 1209.93 | Amps | 135.24 | 118.65 | 125.94 | 129.07 | | |
| | | Open Line MIDWAYPS 230.00-MIDWAYBR 230.00 #1 | 156 | 1209.93 | 1209.93 | Amps | 104.57 | | | | | |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 1209.93 | 1209.93 | Amps | 108.17 | | | 102.78 | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 1209.93 | 1209.93 | Amps | 100.33 | | | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 1209.93 | 1209.93 | Amps | 100.33 | | | | | |
| | | Open Line TARRYALL 230.00-HARTSELT 230.00 #1 | 161 | 1209.93 | 1209.93 | Amps | 100.11 | | | | | |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1209.93 | 1209.93 | Amps | 100.04 | | | | | |
| | | Open Xfmr DANIELPK 115.00/DANIELPK 230.00 #T1 | 318 | 1209.93 | 1209.93 | Amps | 100.68 | | | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 1209.93 | 1209.93 | Amps | 100.11 | | | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 1209.93 | 1209.93 | Amps | 100.11 | | | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 1209.93 | 1209.93 | Amps | 100.11 | | | | | |
| | | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 1209.93 | 1209.93 | Amps | 107.89 | | | 102.47 | | |
| | | Open Xfmr TARRYALL 115.00/TARRYALL 230.00 #T1 | 337 | 1209.93 | 1209.93 | Amps | 100.76 | | | | | |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 1209.93 | 1209.93 | Amps | 107.93 | | | 102.5 | | |
| | | RIO GRAN 115.00-MESA # 115.00 #1 1 | | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 720.93 | 982 | Amps | 100.65 | | | |
| | | ROCKISLD 115.00-KELKER W 115.00 #1 1 | | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 798.25 | 798.25 | Amps | 100.84 | | | |
| ROGERS 230.00-ROGSWAPA 230.00 #1 1 | | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | | | 101.23 | | | |
| ROGERS 230.00-ROGSWAPA 230.00 #2 1 | | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | | | 101.23 | | | |
| ROGSWAPA 230.00-ROGERS 230.00 #1 1 | | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 100.37 | 103.52 | | | | |
| ROGSWAPA 230.00-ROGERS 230.00 #2 1 | | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | 110.19 | 102.82 | 100.68 | | | |
| | | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 100.37 | 103.52 | | | | |
| SHIPROCK 230.00-SHIPROCK 345.00 #1 0 | | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | 110.19 | 102.82 | 100.68 | | | |
| | | Open Line RME 500.00-FCW 500.00 #1 | 71 | 300 | 300 | MVA | | | 100.38 | 107.92 | | |
| SILVSADL 230.00-REUNION 230.00 #1 1 | | Open Line SPRINGR 500.00-SES 500.00 #1 | 383 | 300 | 300 | MVA | | | | 102.11 | | |
| | | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 818.33 | 818.33 | Amps | | | 102.51 | 103.08 | | |
| | | Open Line BUCKLY34 230.00-SMOKYHIL 230.00 #1 | 213 | 818.33 | 818.33 | Amps | | | 103.04 | 101.98 | | |
| | | Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | 214 | 818.33 | 818.33 | Amps | | | 103.04 | 101.97 | | |
| | | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 818.33 | 818.33 | Amps | 100.96 | 106.19 | 103.65 | 101.11 | | |
| | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 818.33 | 818.33 | Amps | 100.94 | 105.52 | 103.32 | 100.99 | | |
| | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 818.33 | 818.33 | Amps | 107.53 | 112.21 | 109.98 | 107.6 | | |
| | | Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 818.33 | 818.33 | Amps | 113.67 | 119.05 | 116.47 | 113.84 | | |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 818.33 | 818.33 | Amps | | | 100.14 | | | |
| | | Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 818.33 | 818.33 | Amps | 106.41 | 111.72 | 109.15 | 106.57 | | |
| | | Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 818.33 | 818.33 | Amps | 101.12 | 104.65 | 102.65 | 100.49 | | |
| | | Open Line GREENVAL 230.00-SKYRANCH 230.00 #1 | 218 | 818.33 | 818.33 | Amps | | | 103.17 | 101.29 | | |
| | | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 818.33 | 818.33 | Amps | 103.75 | 107.49 | 105.25 | 102.96 | | |
| | | Open Line LEGGETT 230.00-NIWOT 230.00 #1 | 264 | 818.33 | 818.33 | Amps | | | 100.89 | | | |
| | | Open Line MEADOWHL 230.00-SMOKYHIL 230.00 #1 | 270 | 818.33 | 818.33 | Amps | | | 100.12 | | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | | | | | | BASECASE | | | | |
|--------------------------------------|---|--|---------|---------|--------|---------------|---------------|------------------|------------------|--|
| OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | pst10l_20.sav | pst10l_20sc5.sav | pst10l_20sc7.sav | |
| SILVSADL 230.00-REUNION 230.00 #1 1 | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 818.33 | 818.33 | Amps | | 103.7 | 101.38 | | |
| | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 818.33 | 818.33 | Amps | 105.35 | 109.99 | 107.78 | 105.41 | |
| | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 277 | 818.33 | 818.33 | Amps | | 102.42 | 100.55 | | |
| | Open Line SKYRANCT 230.00-IMBODEN 230.00 #1 | 278 | 818.33 | 818.33 | Amps | 100.86 | 104.38 | 102.39 | 100.23 | |
| | Open Line SKYRANCT 230.00-SPRUCE 230.00 #1 | 279 | 818.33 | 818.33 | Amps | 100.87 | 104.39 | 102.4 | 100.24 | |
| | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 818.33 | 818.33 | Amps | 101.18 | 104.76 | 102.66 | 100.45 | |
| | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 818.33 | 818.33 | Amps | 101.3 | 104.89 | 102.78 | 100.57 | |
| | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 818.33 | 818.33 | Amps | 101.39 | 104.98 | 102.87 | 100.66 | |
| | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 818.33 | 818.33 | Amps | 100.02 | 103.98 | 101.65 | | |
| | Open Line ST.VRAIN 230.00-SPNDLE 230.00 #1 | 286 | 818.33 | 818.33 | Amps | | 100.97 | | | |
| | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 818.33 | 818.33 | Amps | 103.68 | 108.01 | 105.28 | 102.84 | |
| | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 818.33 | 818.33 | Amps | 112.44 | 117.83 | 115.24 | 112.61 | |
| | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 818.33 | 818.33 | Amps | 102.26 | 105.45 | 104.08 | 102.19 | |
| | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 818.33 | 818.33 | Amps | 100.02 | 103.56 | 102.04 | 100.05 | |
| | Open Xfmr REUNION 115.00/REUNION 230.00 #1 | 353 | 818.33 | 818.33 | Amps | | 100.69 | | | |
| | SPRINGER 115.00-GLADSTON 115.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 599.94 | 599.94 | Amps | | 286.77 | | |
| | SPRINGER 115.00-STORRIE 115.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 512.08 | 512.08 | Amps | | 104.09 | | |
| STEGALL 230.00-SIDNEY 230.00 #1 1 | Open Line LAR.RIVR 500.00-PAWNEE 500.00 #1 | 414 | 800.76 | 800.76 | Amps | | 105.28 | 105.7 | 110.67 | |
| STORY 230.00-PAWNEE 230.00 #1 1 | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 1568.89 | 1568.89 | Amps | | | | 136.44 | |
| VERDE S 230.00-COCONINO 230.00 #1 1 | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 529.66 | 529.66 | Amps | 121.99 | 123.23 | 122.93 | 122.67 | |
| W CANON 230.00-MIDWAYBR 230.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 599.94 | 599.94 | Amps | | 113.76 | 120.98 | | |
| | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 599.94 | 599.94 | Amps | | 111.16 | | | |
| WALSENBG 230.00-COMANCHE 230.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 1114.54 | 1114.54 | Amps | | 123.89 | 128.94 | | |
| WALSENBG 230.00-WALSENBG 115.00 #1 0 | Open Xfmr WALSENBG 230.00/WALSENBG 115.00 #2 | 341 | 100 | 100 | MVA | | | | 100.48 | |
| WALSENBG 230.00-WALSENBG 115.00 #2 0 | Open Xfmr WALSENBG 230.00/WALSENBG 115.00 #1 | 340 | 100 | 100 | MVA | | | | 100.71 | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| |
|---|
| High Plains Express Contingency |
| At least a 3% decrease from previous case |
| Change of less than +/- 3% from previous case |
| At least a 3% increase from previous case |

| E PCT | | CONTINGENCY | | | | BASECASE | | | |
|--|--|-------------|---------|---------|------|---------------|---------------|------------------|------------------|
| OVERLOADED ELEMENT | | NO | N RATE | E RATE | UNIT | pre10hs17.sav | pst10r_20.sav | pst10r_20sc5.sav | pst10r_20sc7.sav |
| APT TAP2 115.00-APT MEM 115.00 #1 1 | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 497.02 | 497.02 | Amps | 100.57 | | | |
| | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 497.02 | 497.02 | Amps | 101.68 | | | |
| | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 497.02 | 497.02 | Amps | | 100.33 | 103.79 | 106.2 |
| AULT 345.00-LAR.RIVR 345.00 #1 1 | Open Line LAR.RIVR 345.00-ARCHER 345.00 #1 | 182 | 1599.85 | 1599.85 | Amps | | 111.16 | | |
| | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 1599.85 | 1599.85 | Amps | | | 114.49 | 116.69 |
| AUSTIN_N 115.00-DYER 115.00 #1 1 | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 590.91 | 800.26 | Amps | 101.63 | | 100.5 | 100.93 |
| | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 783.19 | 783.19 | Amps | | | | 103.47 |
| B-A 115.00-ENCHNTED 115.00 #1 1 | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 783.19 | 783.19 | Amps | | | | 103.19 |
| | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 150 | 193 | MVA | | 105.67 | 106.32 | 106.35 |
| BICKNELL 345.00-BICKNELL 230.00 #1 0 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 590.91 | 800.26 | Amps | 101.27 | 101.56 | 101.93 | 102.12 |
| BIGGS 115.00-NEWMAN 115.00 #1 1 | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 200 | 224 | MVA | 106.45 | 106.15 | 106.26 | 106.29 |
| COPPERVR 345.00-COPPERVR 230.00 #1 0 | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 200 | 224 | MVA | 134.88 | 135.76 | 133.79 | 132 |
| | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 200 | 224 | MVA | 101.38 | | | |
| | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 200 | 224 | MVA | 134.3 | 135.18 | 133.21 | 131.42 |
| | Open Line MORENCI 230.00-PD-MORNC 230.00 #1 | 51 | 200 | 224 | MVA | 100.59 | 100.48 | 100.52 | 100.53 |
| | Open Xfmr DANIELPK 230.00-DANIELPK 345.00 #2 | 320 | 560 | 560 | MVA | | 100.61 | 100.22 | |
| DANIELPK 345.00-DANIELPK 230.00 #1 0 | Open Xfmr DANIELPK 230.00-DANIELPK 345.00 #3 | 321 | 560 | 560 | MVA | | 100.61 | 100.22 | |
| | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 783.19 | 798.25 | Amps | 102.6 | | | 101.23 |
| EGYCNTR 230.00-EGYCNTR 500.00 #1 0 | Open Line BURLNGTN 500.00-BURLSC1 500.00 #1 | 199 | 200 | 0 | MVA | | 106.31 | 100.34 | |
| | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 200 | 0 | MVA | | 212.11 | 271.27 | 311.31 |
| | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 200 | 0 | MVA | | 110.69 | 104.85 | |
| | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 200 | 0 | MVA | | 124.11 | 111.3 | |
| | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 200 | 0 | MVA | | 107.43 | 105.07 | 100.53 |
| EGYCNTR 230.00-EGYCNTR 500.00 #2 0 | Open Line BURLNGTN 500.00-BURLSC1 500.00 #1 | 199 | 200 | 0 | MVA | | 106.31 | 100.34 | |
| | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 200 | 0 | MVA | | 212.11 | 271.27 | 311.31 |
| | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 200 | 0 | MVA | | 110.69 | 104.85 | |
| | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 200 | 0 | MVA | | 124.11 | 111.3 | |
| | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 200 | 0 | MVA | | 107.43 | 105.07 | 100.53 |
| EGYCNTR 230.00-LAMAR CO 230.00 #1 1 | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 1538.01 | 1538.01 | Amps | | | | 101.26 |
| EGYCNTR 500.00-EGYCNTR 230.00 #1 0 | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 200 | 0 | MVA | | 107.39 | 105.08 | 100.65 |
| | Open Line LAMAR CO 230.00-LAMAR DC 230.00 #1 | 149 | 200 | 0 | MVA | | 104.19 | | |
| EGYCNTR 500.00-EGYCNTR 230.00 #2 0 | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 200 | 0 | MVA | | 107.39 | 105.08 | 100.65 |
| | Open Line LAMAR CO 230.00-LAMAR DC 230.00 #1 | 149 | 200 | 0 | MVA | | 104.19 | | |
| FLAGSTAF 345.00-PINKBRB 345.00 #1 1 | Open Line FLAGSTAF 345.00-PINKBRB 345.00 #2 | 60 | 1499.44 | 1650.05 | Amps | 124.02 | 140.05 | 135.3 | 131.96 |
| | Open Line FLAGSTAF 345.00-PINKBRB 345.00 #2 | 60 | 1250.09 | 1680.17 | Amps | 121.8 | 137.54 | 132.88 | 129.59 |
| FLAGSTAF 345.00-PINKBRB 345.00 #1 2 | Open Line FLAGSTAF 345.00-PINKBRB 345.00 #1 | 59 | 1999.97 | 1999.81 | Amps | 102.32 | 115.56 | 111.64 | 108.88 |
| FLAGSTAF 345.00-PINKBRB 345.00 #2 1 | Open Line FLAGSTAF 345.00-PINKBRB 345.00 #1 | 59 | 1250.09 | 1680.17 | Amps | 121.79 | 137.54 | 132.87 | 129.59 |
| FLAGSTAF 345.00-PINKBRB 345.00 #2 2 | Open Line FLAGSTAF 345.00-PINKBRB 345.00 #1 | 59 | 1250.09 | 1680.17 | Amps | 121.79 | 137.54 | 132.87 | 129.59 |
| FOURC1AA 100.00-FOURCORN 500.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116.01 | | | |
| FOURCORN 345.00-FOURC1AA 100.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116.49 | | | |
| FT.CRAIG 345.00-FT.CRAIG 500.00 #1 0 | Open Line FT.CRAIG 500.00-LUNA 500.00 #1 | 396 | 840 | 1200 | MVA | | | | 102.13 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | Open Line ARAPAHOE 230.00-SANTEFE 230.00 #1 | 212 | 280 | 280 | MVA | 103.36 | 110.76 | 109.51 | 108.41 |
| | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 280 | 280 | MVA | 103.19 | 110.65 | 109.38 | 108.26 |
| | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 280 | 280 | MVA | 105.45 | 113.11 | 111.78 | 110.61 |
| Open Line BARRLAKE 230.00-REUNION 230.00 #1 | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 280 | 280 | MVA | 106.25 | 113.92 | 112.59 | 111.42 |
| | Open Line BRICKCTR 345.00-DANIELPK 345.00 #1 | 162 | 280 | 280 | MVA | 102.97 | 110.56 | 109.27 | 108.13 |
| Open Line BRICKCTR 345.00-DANIELPK 345.00 #2 | Open Line BRICKCTR 345.00-DANIELPK 345.00 #2 | 163 | 280 | 280 | MVA | 102.97 | 110.56 | 109.27 | 108.13 |
| | Open Line BUCKLY34 230.00-SMOKYHIL 230.00 #1 | 213 | 280 | 280 | MVA | 103.71 | 111.22 | 109.94 | 108.82 |
| Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | 214 | 280 | 280 | MVA | 103.71 | 111.21 | 109.94 | 108.82 |
| | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 280 | 280 | MVA | | 110.56 | 109.84 | 109.25 |
| Open Line CHATFLD 230.00-WATERTON 230.00 #1 | Open Line CHATFLD 230.00-WATERTON 230.00 #1 | 226 | 280 | 280 | MVA | 103.33 | 110.69 | 109.44 | 108.33 |
| | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 280 | 280 | MVA | 107.3 | 116.1 | 114.52 | 113.13 |
| Open Line CHEROKEE 230.00-LACOMBE 230.00 #1 | Open Line CHEROKEE 230.00-LACOMBE 230.00 #1 | 228 | 280 | 280 | MVA | 103.66 | 111.31 | 109.99 | 108.84 |
| | Open Line CHEROKEE 230.00-RIDGE 230.00 #1 | 229 | 280 | 280 | MVA | 103.05 | 110.6 | 109.29 | 108.14 |
| Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 280 | 280 | MVA | 107.33 | 115.75 | 114.26 | 112.96 |
| | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 280 | 280 | MVA | 105.39 | 113.06 | 111.72 | 110.55 |
| Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 280 | 280 | MVA | | | | 108.18 |
| | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 280 | 280 | MVA | 103.27 | 110.73 | 109.51 | 108.44 |
| Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 280 | 280 | MVA | 103.85 | 111.3 | 110.11 | 109.05 |
| | Open Line DANIELPK 230.00-BRICKCTR 230.00 #1 | 240 | 280 | 280 | MVA | | 110.38 | | |
| Open Line DANIELPK 230.00-SANTEFE 230.00 #1 | Open Line DANIELPK 230.00-SANTEFE 230.00 #1 | 239 | 280 | 280 | MVA | 103.45 | 110.86 | 109.61 | 108.51 |
| | Open Line DENVTM 230.00-LACOMBE 230.00 #1 | 243 | 280 | 280 | MVA | 103.28 | 110.92 | 109.6 | 108.45 |
| Open Line EGYCNTR 500.00-BOONE 500.00 #1 | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 280 | 280 | MVA | 104.22 | 111.52 | 110.17 | 109.01 |
| | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 280 | 280 | MVA | 111.58 | 120.07 | 118.57 | 117.26 |
| Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 280 | 280 | MVA | 115.61 | 124.56 | 122.95 | 121.55 |
| | Open Line FULLER 230.00-DANIELPK 230.00 #1 | 307 | 280 | 280 | MVA | 102.93 | | | |
| Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 280 | 280 | MVA | | | 109.44 | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| |
|---|
| High Plains Express Contingency |
| At least a 3% decrease from previous case |
| Change of less than +/- 3% from previous case |
| At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | |
|---------------------------------------|--------------------|---|--|--------|--------|--------|---------------|---------------|------------------|------------------|--|
| | | | | | | | pre10hs17.sav | pst10r_20.sav | pst10r_20sc5.sav | pst10r_20sc6.sav | |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 280 | 280 | MVA | 110.96 | 119.84 | 118.24 | 116.85 | |
| | | Open Line GREENVAL 230.00-FTLUPTON 230.00 #1 | 217 | 280 | 280 | MVA | 104.66 | 113.29 | 111.86 | 110.58 | |
| | | Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 280 | 280 | MVA | 103.95 | 111.54 | 110.25 | 109.1 | |
| | | Open Line GREENVAL 230.00-SKYRANCH 230.00 #1 | 218 | 280 | 280 | MVA | 103.7 | 111.27 | 109.98 | 108.85 | |
| | | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 280 | 280 | MVA | 104.44 | 112.08 | 110.77 | 109.62 | |
| | | Open Line GREENVAL 230.00-ST.VRAIN 230.00 #1 | 219 | 280 | 280 | MVA | 103.34 | 111.09 | 109.78 | 108.63 | |
| | | Open Line GREENWD 230.00-MONACO12 230.00 #1 | 256 | 280 | 280 | MVA | 103.41 | 110.81 | 109.56 | 108.45 | |
| | | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 280 | 280 | MVA | | | | 108.2 | |
| | | Open Line JEWELL2 230.00-TOLGATE 230.00 #1 | 260 | 280 | 280 | MVA | 103.01 | 110.51 | 109.23 | 108.11 | |
| | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 280 | 280 | MVA | | 111.73 | 111.33 | 111.01 | |
| | | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 280 | 280 | MVA | | 110.5 | 110 | 109.44 | |
| | | Open Line LEETSDAL 230.00-MONACO12 230.00 #1 | 263 | 280 | 280 | MVA | 103.27 | 110.66 | 109.41 | 108.31 | |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 153 | 280 | 280 | MVA | 103.89 | 112.15 | 110.67 | 109.38 | |
| | | Open Line LEGGETT 230.00-NIWOT 230.00 #1 | 264 | 280 | 280 | MVA | 105.72 | 114 | 112.51 | 111.21 | |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 265 | 280 | 280 | MVA | 103.89 | 112.15 | 110.67 | 109.38 | |
| | | Open Line MEADOWHIL 230.00-SMOKYHIL 230.00 #1 | 270 | 280 | 280 | MVA | 103.02 | 110.53 | 109.26 | 108.14 | |
| | | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 280 | 280 | MVA | 103.09 | 110.56 | 109.25 | 108.11 | |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 280 | 280 | MVA | 103.58 | 110.89 | 109.66 | 108.58 | |
| | | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 280 | 280 | MVA | 108.16 | 116.44 | 114.94 | 113.64 | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 280 | 280 | MVA | 105.55 | 113.42 | 112.04 | 110.83 | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 280 | 280 | MVA | 105.55 | 113.42 | 112.04 | 110.83 | |
| | | Open Line QUINCY 230.00-BRICKCTR 230.00 #1 | 275 | 280 | 280 | MVA | 103.26 | 110.73 | 109.47 | 108.36 | |
| | | Open Line QUINCY 230.00-SMOKYHIL 230.00 #1 | 274 | 280 | 280 | MVA | 103.24 | 110.71 | 109.46 | 108.34 | |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 280 | 280 | MVA | 110.18 | 118.65 | 117.15 | 115.84 | |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 280 | 280 | MVA | 103.06 | 110.46 | 109.17 | 108.03 | |
| | | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 280 | 280 | MVA | 105.85 | 113.52 | 112.19 | 111.02 | |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 277 | 280 | 280 | MVA | 103.56 | 111.13 | 109.84 | 108.71 | |
| | | Open Line SKYRANCH 230.00-IMBODEN 230.00 #1 | 278 | 280 | 280 | MVA | 103.9 | 111.5 | 110.2 | 109.06 | |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 279 | 280 | 280 | MVA | 103.9 | 111.5 | 110.2 | 109.06 | |
| | | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 280 | 280 | MVA | 103.66 | 111.23 | 109.94 | 108.81 | |
| | | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 280 | 280 | MVA | 103.68 | 111.25 | 109.96 | 108.82 | |
| | | Open Line SODALAKE 230.00-CHATFLD 230.00 #1 | 209 | 280 | 280 | MVA | 102.91 | | | | |
| | | Open Line SPRUCE 230.00-CHAMBERS 230.00 #1 | 300 | 280 | 280 | MVA | 102.92 | | 109.14 | 108.02 | |
| | | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 280 | 280 | MVA | 103.69 | 111.26 | 109.97 | 108.84 | |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 280 | 280 | MVA | 108.36 | 116.64 | 115.14 | 113.84 | |
| | | Open Line ST.VRAIN 230.00-SPNDLE 230.00 #1 | 296 | 280 | 280 | MVA | 107.55 | 116.68 | 115 | 113.53 | |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 280 | 280 | MVA | 117.58 | 126.81 | 125.08 | 123.57 | |
| | | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 280 | 280 | MVA | 114.9 | 123.84 | 122.23 | 120.83 | |
| | | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 280 | 280 | MVA | | 110.97 | 110.7 | 110.45 | |
| | | Open Xfmr ARAPAHOB 115.00/ARAPAHOE 230.00 #T5 | 311 | 280 | 280 | MVA | 103.65 | 111.13 | 109.88 | 108.77 | |
| | | Open Xfmr BRICKCTR 115.00/BRICKCTR 230.00 #T1 | 351 | 280 | 280 | MVA | 102.96 | 110.43 | 109.17 | 108.06 | |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #1 | 349 | 280 | 280 | MVA | 102.92 | 110.4 | 109.14 | 108.02 | |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #2 | 350 | 280 | 280 | MVA | 102.92 | 110.4 | 109.14 | 108.02 | |
| | | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 280 | 280 | MVA | 105.92 | 113.53 | 112.25 | 111.11 | |
| | | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A1 | 312 | 280 | 280 | MVA | 104.29 | 112.03 | 110.75 | 109.61 | |
| | | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A2 | 313 | 280 | 280 | MVA | 104.28 | 112.02 | 110.74 | 109.6 | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 280 | 280 | MVA | 103.11 | 110.58 | 109.33 | 108.22 | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 280 | 280 | MVA | 103.11 | 110.58 | 109.33 | 108.22 | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 280 | 280 | MVA | 103.11 | 110.58 | 109.33 | 108.22 | |
| | | Open Xfmr DENVTM 115.00/DENVTM 230.00 #T2 | 322 | 280 | 280 | MVA | 103.7 | 111.21 | 109.96 | 108.85 | |
| | | Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 280 | 280 | MVA | 103.01 | 110.51 | 109.25 | 108.13 | |
| | | Open Xfmr LEETSDAL 115.00/LEETSDAL 230.00 #T4 | 324 | 280 | 280 | MVA | 104.34 | 111.85 | 110.61 | 109.5 | |
| | | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 280 | 280 | MVA | 103.43 | 110.74 | 109.51 | 108.42 | |
| | | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #1 | 329 | 280 | 280 | MVA | 103 | 110.53 | 109.26 | 108.13 | |
| | | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #2 | 331 | 280 | 280 | MVA | 103 | 110.53 | 109.26 | 108.13 | |
| | | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #3 | 330 | 280 | 280 | MVA | 103 | 110.53 | 109.26 | 108.13 | |
| | | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T1 | 332 | 280 | 280 | MVA | 103.24 | 110.71 | 109.47 | 108.36 | |
| | | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T2 | 333 | 280 | 280 | MVA | 103.25 | 110.72 | 109.48 | 108.37 | |
| | | Open Xfmr SODALAKE 115.00/SODALAKE 230.00 #T2 | 336 | 280 | 280 | MVA | 103.17 | 110.63 | 109.38 | 108.27 | |
| | | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T1 | 338 | 280 | 280 | MVA | 105.81 | 113.5 | 112.22 | 111.09 | |
| | | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T2 | 339 | 280 | 280 | MVA | 105.81 | 113.5 | 112.22 | 111.09 | |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 280 | 280 | MVA | 103.52 | 110.83 | 109.6 | 108.52 | |
| | | Gladston 115.00-SPRINGER 115.00 #1 1 | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 599.94 | 599.94 | Amps | | 117.22 | | |
| | | | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 599.94 | 599.94 | Amps | | 148.72 | 116.89 | |
| | | | Open Line B-A 345.00-NORTON 345.00 #1 | 85 | 599.94 | 599.94 | Amps | | 123.79 | 102.62 | |
| | | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 599.94 | 599.94 | Amps | | 117.31 | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| |
|---|
| High Plains Express Contingency |
| At least a 3% decrease from previous case |
| Change of less than +/- 3% from previous case |
| At least a 3% increase from previous case |

| E PCT | | CONTINGENCY | | | | BASECASE | | | | |
|--|---|--|---------|---------|------|---------------|---------------|------------------|------------------|-------|
| OVERLOADED ELEMENT | | NO | N RATE | E RATE | UNIT | pre10hs17.sav | pst10r_20.sav | pst10r_20sc5.sav | pst10r_20sc7.sav | |
| GLADSTON 115.00-SPRINGER 115.00 #1 1 | Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | 599.94 | 599.94 | Amps | | 117.05 | | | |
| | Open Line CF&IFURN 230.00-COMANCHE 230.00 #1 | 145 | 599.94 | 599.94 | Amps | | 118.9 | | | |
| | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 599.94 | 599.94 | Amps | | 116.95 | | | |
| | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 599.94 | 599.94 | Amps | | 162.11 | 167.01 | 171.45 | |
| | Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | 599.94 | 599.94 | Amps | | 118.21 | | | |
| | Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | 599.94 | 599.94 | Amps | | 118.26 | | | |
| | Open Line FT.CRAIG 500.00-LUNA 500.00 #1 | 396 | 599.94 | 599.94 | Amps | | 119.25 | 105.17 | | |
| | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 599.94 | 599.94 | Amps | | 117.4 | | | |
| | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 599.94 | 599.94 | Amps | | 163.16 | 167.74 | 171.98 | |
| | Open Line LUNA 500.00-WINCHSTR 500.00 #1 | 397 | 599.94 | 599.94 | Amps | | 116.62 | 102.98 | | |
| | Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | 599.94 | 599.94 | Amps | | 117.74 | | | |
| | Open Line OJO 345.00-TAOS 345.00 #1 | 92 | 599.94 | 599.94 | Amps | | 120.53 | 101.63 | | |
| | Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | 599.94 | 599.94 | Amps | | 117.49 | | | |
| | Open Line SAN_JUAN 345.00-OJO 345.00 #1 | 358 | 599.94 | 599.94 | Amps | | 141.72 | 124.18 | 111.44 | |
| | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 599.94 | 599.94 | Amps | | 120.99 | | | |
| | Open Line WINCHSTR 345.00-VAIL 345.00 #1 | 37 | 599.94 | 599.94 | Amps | | 114.77 | | | |
| | Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | 599.94 | 599.94 | Amps | | 121.06 | | | |
| | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 599.94 | 599.94 | Amps | | 130 | 101.95 | | |
| | GLADSTON 230.00-GLADSTON 115.00 #1 0 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 200 | 200 | MVA | | 105.11 | 107.4 | |
| | GLADSTON 230.00-GLADSTON 115.00 #2 0 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 200 | 200 | MVA | | 105.11 | 107.4 | |
| GLADSTON 345.00-FLAGSTAF 345.00 #1 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1999.97 | 1680.17 | Amps | 122.75 | 138.86 | 134.04 | 130.65 | |
| | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1840.83 | 2024.91 | Amps | 101.86 | 115.22 | 111.22 | 108.41 | |
| GLENCANY 345.00-FLAGSTAF 345.00 #1 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1250.09 | 1680.17 | Amps | 122.53 | 138.64 | 133.82 | 130.43 | |
| | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1840.83 | 2024.91 | Amps | 101.67 | 115.04 | 111.04 | 108.22 | |
| GLENCANY 345.00-FLAGSTAF 345.00 #2 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1840.83 | 2024.91 | Amps | 101.67 | 115.04 | 111.04 | 108.22 | |
| | Open Line CALIENTE 345.00-NC1 345.00 #1 | 74 | 590.91 | 800.26 | Amps | 148.06 | 151.58 | 151.84 | 151.6 | |
| GR 115.00-VISTA # 115.00 #1 1 | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 150 | 193 | MVA | 108.88 | 108.55 | 108.67 | 108.7 | |
| | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 150 | 193 | MVA | 156.07 | 157.07 | 154.77 | 152.68 | |
| GREEN-AE 345.00-GREEN-AE 230.00 #1 0 | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 150 | 193 | MVA | 155.75 | 156.73 | 154.44 | 152.35 | |
| | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 150 | 193 | MVA | 103.74 | | | | |
| GUADLUPE 345.00-B-A 345.00 #1 1 | Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 150 | 193 | MVA | 132.42 | 133.48 | 131.15 | 129 | |
| | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 1800.66 | 1800.66 | Amps | | 113.36 | 113.36 | 122.93 | |
| JLGREEN 230.00-FTLUPTON 230.00 #1 1 | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 1800.66 | 1800.66 | Amps | | 113.77 | 113.77 | 123.26 | |
| | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 1242.56 | 1242.56 | Amps | | 101.25 | | | |
| JLGREEN 230.00-FTLUPTON 230.00 #1 1 | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 1242.56 | 1242.56 | Amps | | 103.72 | 101.13 | | |
| | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 1242.56 | 1242.56 | Amps | | 103.34 | 100.49 | | |
| | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 1242.56 | 1242.56 | Amps | | 101.07 | | | |
| | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 1242.56 | 1242.56 | Amps | 100 | 111.39 | 108.53 | 106.21 | |
| | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 1242.56 | 1242.56 | Amps | | 100.02 | | | |
| | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 1242.56 | 1242.56 | Amps | | 108.72 | 105.86 | 103.55 | |
| | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 1242.56 | 1242.56 | Amps | | 102.48 | | | |
| | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 1242.56 | 1242.56 | Amps | | 100.3 | | | |
| | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1242.56 | 1242.56 | Amps | | 104.12 | 101.27 | | |
| | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 1242.56 | 1242.56 | Amps | | 104.08 | 101.55 | | |
| | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 25 | 25 | MVA | | | 107.45 | 115.5 | |
| | LAJUNTAW 115.00-LAJUNTAW 69.00 #1 0 | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 25 | 25 | MVA | | | 107.45 | 115.5 |
| LAMAR CO 230.00-LAMAR CO 115.00 #1 0 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 100 | 100 | MVA | 113.02 | | | | |
| | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 100 | 100 | MVA | 112.11 | | | | |
| | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 100 | 100 | MVA | 129.74 | | | | |
| | Open Line BOONE 230.00-LAMAR CO 230.00 #1 | 143 | 100 | 100 | MVA | 123.9 | | | | |
| | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 100 | 100 | MVA | 113.28 | | | | |
| | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 100 | 100 | MVA | 130.65 | | | | |
| | Open Line BURLNGTN 500.00-BURLSC1 500.00 #1 | 199 | 100 | 100 | MVA | 114.06 | | | | |
| | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 100 | 100 | MVA | 117.32 | | | | |
| | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 100 | 100 | MVA | 115.66 | | | | |
| | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 100 | 100 | MVA | 148.34 | 115.4 | 111.22 | 109.4 | |
| | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 100 | 100 | MVA | 118.03 | | | | |
| | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 100 | 100 | MVA | | 106.23 | 109.03 | | |
| | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 100 | 100 | MVA | 114.22 | | | | |
| | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 100 | 100 | MVA | | 126.12 | 128.57 | 130.32 | |
| | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 100 | 100 | MVA | 113.99 | | | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 100 | 100 | MVA | 112 | | | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 100 | 100 | MVA | 112 | | | | |
| | Open Xfmr BOONE 115.00/BOONE 230.00 #1 | 355 | 100 | 100 | MVA | 132.53 | 111.95 | 109.69 | 108.85 | |
| | Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A1 | 314 | 100 | 100 | MVA | 112.89 | | | | |
| | Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A2 | 315 | 100 | 100 | MVA | 112.92 | | | | |
| Open Xfmr LAMAR CO 500.00/LAMAR CO 230.00 #1 | 403 | 100 | 100 | MVA | | 106.77 | 103.52 | 101.35 | | |
| LAR.RIVR 345.00-AULT 345.00 #1 1 | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 1599.85 | 1599.85 | Amps | | 113.21 | | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | |
|--------------------------------------|---|-----|---------|---------|------|---------------|---------------|------------------|------------------|
| | | | | | | pre10hs17.sav | pst10r_20.sav | pst10r_20sc5.sav | pst10r_20sc7.sav |
| OVERLOADED ELEMENT | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 840 | 1200 | MVA | | 105.14 | 109.96 | 113.03 |
| LAR.RIVR 500.00-LAR.RIVR 345.00 #1 0 | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 350.93 | 350.93 | Amps | | 107.37 | 107.92 | 110.3 |
| LUDLOTAP 115.00-WALSENBG 115.00 #1 1 | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 224 | 224 | MVA | | | | |
| LUNA 345.00-LUNA 115.00 #1 0 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 1209.93 | 1209.93 | Amps | | 100.16 | | |
| MIDWAYBR 230.00-RD_NIXON 230.00 #1 1 | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 1209.93 | 1209.93 | Amps | | | | |
| | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 1209.93 | 1209.93 | Amps | | | | |
| | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 1209.93 | 1209.93 | Amps | | | | |
| | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 1209.93 | 1209.93 | Amps | | | | |
| | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 1209.93 | 1209.93 | Amps | | | | |
| | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 1209.93 | 1209.93 | Amps | | | | |
| | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 1209.93 | 1209.93 | Amps | | | | |
| | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 1209.93 | 1209.93 | Amps | | | 101.5 | |
| | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 1209.93 | 1209.93 | Amps | | 103.41 | | |
| | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 1209.93 | 1209.93 | Amps | | | 103.45 | 104.87 |
| N.YUMA 230.00-WRAY 230.00 #1 1 | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 705.37 | 705.37 | Amps | | | | 103.08 |
| NEWMAN 115.00-NEWMAN B 345.00 #1 0 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | | 101.84 | 106.42 | 103.57 |
| NEWMAN B 345.00-NEWMAN 345.00 #1 0 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | | 100.98 | 105.5 | 102.69 |
| OJO 345.00-OJO 115.00 #1 0 | Open Line FOURCORN 345.00-WESTMESA 345.00 #1 | 357 | 180 | 180 | MVA | | 103.46 | | |
| | Open Line OJO 345.00-TAOS 345.00 #1 | 92 | 180 | 180 | MVA | | 107.43 | | |
| P.VALLEY 115.00-TODD CRE 115.00 #1 1 | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 676.75 | 676.75 | Amps | | 105.04 | 103.83 | 103.84 |
| PINPK 230.00-PNPKAPS 230.00 #1 1 | Open Line RACEWAY 500.00-PNPKAPS 500.00 #1 | 109 | 1691.89 | 1998.13 | Amps | | | 111.72 | |
| PNPKAPS 230.00-CACTUS 230.00 #1 1 | Open Line PNPKAPS 230.00-OCOTILLO 230.00 #1 | 15 | 931.29 | 1157.21 | Amps | | | 120.55 | |
| PNPKAPS 230.00-PINPK 230.00 #1 1 | Open Line RACEWAY 500.00-PNPKAPS 500.00 #1 | 109 | 1691.89 | 1998.13 | Amps | | 113.5 | 112.73 | 111.23 |
| PRESCOTT 230.00-WILOWLKW 230.00 #1 1 | Open Line YAVAPAI 500.00-WESTWING 500.00 #1 | 5 | 672.99 | 672.99 | Amps | | | | 109.1 |
| RD_NIXON 230.00-MIDWAYBR 230.00 #1 1 | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 1209.93 | 1209.93 | Amps | | 100.27 | | |
| | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 1209.93 | 1209.93 | Amps | | 100.6 | | |
| | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 1209.93 | 1209.93 | Amps | | 100.77 | | |
| | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 1209.93 | 1209.93 | Amps | | | 102.83 | 102.8 |
| | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 1209.93 | 1209.93 | Amps | | 100.19 | | 102.96 |
| | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 1209.93 | 1209.93 | Amps | | 135.24 | 124.77 | 125.65 |
| | Open Line MIDWAYPS 230.00-MIDWAYBR 230.00 #1 | 156 | 1209.93 | 1209.93 | Amps | | 104.57 | | |
| | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 1209.93 | 1209.93 | Amps | | 108.17 | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 1209.93 | 1209.93 | Amps | | 100.33 | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 1209.93 | 1209.93 | Amps | | 100.33 | | |
| | Open Line TARRYALL 230.00-HARTSELT 230.00 #1 | 161 | 1209.93 | 1209.93 | Amps | | 100.11 | | |
| | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1209.93 | 1209.93 | Amps | | 100.04 | | |
| | Open Xfmr DANIELPK 115.00/DANIELPK 230.00 #T1 | 318 | 1209.93 | 1209.93 | Amps | | 100.68 | | |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 1209.93 | 1209.93 | Amps | | 100.11 | | |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 1209.93 | 1209.93 | Amps | | 100.11 | | |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 1209.93 | 1209.93 | Amps | | 100.11 | | |
| | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 1209.93 | 1209.93 | Amps | | 107.89 | | |
| | Open Xfmr TARRYALL 115.00/TARRYALL 230.00 #T1 | 337 | 1209.93 | 1209.93 | Amps | | 100.76 | | |
| | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 1209.93 | 1209.93 | Amps | | 107.93 | | |
| RIO GRAN 115.00-MESA # 115.00 #1 1 | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 720.93 | 982 | Amps | | 100.65 | | |
| ROCKISLD 115.00-KELKER W 115.00 #1 1 | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 798.25 | 798.25 | Amps | | 100.84 | | |
| ROGERS 230.00-ROGSWAPA 230.00 #1 1 | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | | | 105.53 | |
| ROGERS 230.00-ROGSWAPA 230.00 #2 1 | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | | | 105.53 | |
| ROGSWAPA 230.00-ROGERS 230.00 #1 1 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | | 100.37 | 108.59 | 107.39 |
| | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | | 110.19 | 106.33 | 104.75 |
| ROGSWAPA 230.00-ROGERS 230.00 #2 1 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | | 100.37 | 108.59 | 107.39 |
| | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | | 110.19 | 106.33 | 104.75 |
| SHIPROCK 230.00-SHIPROCK 345.00 #1 0 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 300 | 300 | MVA | | | | 105.81 |
| | Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 | 2 | 300 | 300 | MVA | | | | 101.62 |
| | Open Line RME 500.00-FCW 500.00 #1 | 71 | 300 | 300 | MVA | | | 103.39 | 111.31 |
| SILVSADL 230.00-REUNION 230.00 #1 1 | Open Line ARAPAHOE 230.00-SANTEFE 230.00 #1 | 212 | 818.33 | 818.33 | Amps | | 101.82 | | |
| | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 818.33 | 818.33 | Amps | | 100.24 | | |
| | Open Line BUCKLY12 230.00-SMOKYHIL 230.00 #1 | 224 | 818.33 | 818.33 | Amps | | 100.8 | | |
| | Open Line BUCKLY34 230.00-SMOKYHIL 230.00 #1 | 213 | 818.33 | 818.33 | Amps | | 105.45 | 103.14 | 101.39 |
| | Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | 214 | 818.33 | 818.33 | Amps | | 105.45 | 103.14 | 101.39 |
| | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 818.33 | 818.33 | Amps | | 100.29 | | |
| | Open Line CHATFLD 230.00-WATERTON 230.00 #1 | 226 | 818.33 | 818.33 | Amps | | 100.76 | | |
| | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 818.33 | 818.33 | Amps | | 100.96 | 105.65 | 103.57 |
| | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 818.33 | 818.33 | Amps | | 100.94 | 107.73 | 103.22 |
| | Open Line CLARK 230.00-JORDAN 230.00 #1 | 233 | 818.33 | 818.33 | Amps | | 100.15 | | |
| | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 818.33 | 818.33 | Amps | | 100.17 | | |
| | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 818.33 | 818.33 | Amps | | 100.45 | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | | CONTINGENCY | | | | BASECASE | | | |
|--------------------------------------|---|-------------|---------|---------|------|---------------|---------------|------------------|------------------|
| OVERLOADED ELEMENT | | NO | N RATE | E RATE | UNIT | pre10hs17.sav | pst10r_20.sav | pst10r_20sc5.sav | pst10r_20sc7.sav |
| SILVSADL 230.00-REUNION 230.00 #1 1 | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 818.33 | 818.33 | Amps | | 101.7 | | |
| | Open Line DANIELPK 230.00-SANTEFE 230.00 #1 | 239 | 818.33 | 818.33 | Amps | | 102.19 | 100.02 | |
| | Open Line DENVTM 230.00-WESTPS 230.00 #1 | 243 | 818.33 | 818.33 | Amps | | 100.14 | | |
| | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 818.33 | 818.33 | Amps | | 101.44 | | |
| | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 818.33 | 818.33 | Amps | 107.53 | 114.41 | 111.84 | 109.88 |
| | Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 818.33 | 818.33 | Amps | 113.67 | 121.2 | 118.48 | 116.39 |
| | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 818.33 | 818.33 | Amps | | 103.47 | | |
| | Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 818.33 | 818.33 | Amps | 106.41 | 113.87 | 111.16 | 109.07 |
| | Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 818.33 | 818.33 | Amps | 101.12 | 107.13 | 104.72 | 102.9 |
| | Open Line GREENVAL 230.00-SKYRANCH 230.00 #1 | 218 | 818.33 | 818.33 | Amps | | 105.63 | 103.26 | 101.47 |
| | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 818.33 | 818.33 | Amps | 103.75 | 110.03 | 107.54 | 105.66 |
| | Open Line GREENWD 230.00-MONACO12 230.00 #1 | 256 | 818.33 | 818.33 | Amps | | 102.49 | 100.31 | |
| | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 818.33 | 818.33 | Amps | | 100.25 | | |
| | Open Line HOMESTEAD 230.00-MURPHY 230.00 #1 | 296 | 818.33 | 818.33 | Amps | | 100.14 | | |
| | Open Line JEWELL2 230.00-LEETSDAL 230.00 #1 | 259 | 818.33 | 818.33 | Amps | | 100.25 | | |
| | Open Line JEWELL2 230.00-TOLGATE 230.00 #1 | 260 | 818.33 | 818.33 | Amps | | 101.51 | | |
| | Open Line JORDAN 230.00-ORCHARD 230.00 #1 | 261 | 818.33 | 818.33 | Amps | | 100.32 | | |
| | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 818.33 | 818.33 | Amps | | 106.68 | 106.63 | 106.63 |
| | Open Line LEETSDAL 230.00-MONACO12 230.00 #1 | 263 | 818.33 | 818.33 | Amps | | 101.8 | | |
| | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 153 | 818.33 | 818.33 | Amps | | 101.31 | | |
| | Open Line LEGGETT 230.00-NIWOT 230.00 #1 | 264 | 818.33 | 818.33 | Amps | | 103.28 | 100.83 | |
| | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 265 | 818.33 | 818.33 | Amps | | 101.31 | | |
| | Open Line LOOKOUT 230.00-RIDGE 230.00 #1 | 266 | 818.33 | 818.33 | Amps | | 100.88 | | |
| | Open Line LOOKOUT 230.00-WESTPS 230.00 #1 | 267 | 818.33 | 818.33 | Amps | | 100.52 | | |
| | Open Line MEADOWHL 230.00-ORCHARD 230.00 #1 | 269 | 818.33 | 818.33 | Amps | | 101.2 | | |
| | Open Line MEADOWHL 230.00-SMOKYHIL 230.00 #1 | 270 | 818.33 | 818.33 | Amps | | 102.38 | 100.08 | |
| | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 818.33 | 818.33 | Amps | | 100.2 | | |
| | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 818.33 | 818.33 | Amps | | 100.79 | | |
| | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 818.33 | 818.33 | Amps | | 106.09 | 103.63 | 101.76 |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 818.33 | 818.33 | Amps | | 100.67 | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 818.33 | 818.33 | Amps | | 100.67 | | |
| | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 818.33 | 818.33 | Amps | 105.35 | 112.19 | 109.63 | 107.67 |
| | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 277 | 818.33 | 818.33 | Amps | | 104.88 | 102.51 | 100.73 |
| | Open Line SKYRANCH 230.00-IMBODEN 230.00 #1 | 278 | 818.33 | 818.33 | Amps | 100.86 | 106.87 | 104.46 | 102.64 |
| | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 279 | 818.33 | 818.33 | Amps | 100.87 | 106.88 | 104.47 | 102.65 |
| | Open Line SMOKYHIL 230.00-MURPHY 230.00 #1 | 282 | 818.33 | 818.33 | Amps | | 100.17 | | |
| | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 818.33 | 818.33 | Amps | 101.18 | 107.19 | 104.78 | 102.96 |
| | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 818.33 | 818.33 | Amps | 101.3 | 107.32 | 104.9 | 103.08 |
| | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 818.33 | 818.33 | Amps | 101.39 | 107.4 | 104.99 | 103.17 |
| | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 818.33 | 818.33 | Amps | 100.02 | 106.36 | 103.9 | 102.03 |
| | Open Line ST.VRAIN 230.00-SPNDLE 230.00 #1 | 286 | 818.33 | 818.33 | Amps | | 103.46 | 100.89 | |
| | Open Line VALMONT 230.00-SIMMS 230.00 #1 | 292 | 818.33 | 818.33 | Amps | | 100.27 | | |
| | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 818.33 | 818.33 | Amps | 103.68 | 110.52 | 107.94 | 106 |
| | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 818.33 | 818.33 | Amps | 112.44 | 119.97 | 117.25 | 115.16 |
| | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 818.33 | 818.33 | Amps | 102.26 | 108.02 | 105.72 | 103.97 |
| | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 818.33 | 818.33 | Amps | 100.02 | 105.88 | 103.6 | 101.87 |
| | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 818.33 | 818.33 | Amps | | 100.31 | | |
| | Open Xfmr REUNION 115.00/REUNION 230.00 #1 | 353 | 818.33 | 818.33 | Amps | | 103 | 100.79 | |
| | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 818.33 | 818.33 | Amps | | 100.63 | | |
| SPRINGER 115.00-GLADSTON 115.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 599.94 | 599.94 | Amps | | 286.82 | 294.91 | |
| SPRINGER 115.00-STORRIE 115.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 512.08 | 512.08 | Amps | | 103.81 | 105.01 | |
| SPRINGER 115.00-YORKCANY 115.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 330.85 | 330.85 | Amps | | 100.5 | | |
| STEGALL 230.00-SIDNEY 230.00 #1 1 | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 800.76 | 800.76 | Amps | | 103.83 | 109.45 | 114.43 |
| VERDE S 230.00-COCONINO 230.00 #1 1 | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 529.66 | 529.66 | Amps | 121.99 | 123.42 | 123.13 | 122.91 |
| W CANON 230.00-MIDWAYBR 230.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 599.94 | 599.94 | Amps | | 108.93 | 108.06 | |
| | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 599.94 | 599.94 | Amps | | 110.07 | 108.23 | 108.08 |
| WALSENBG 230.00-COMANCHE 230.00 #1 1 | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 1114.54 | 1114.54 | Amps | | 123.18 | 125.37 | 127.75 |
| WINCHSTR 345.00-VAIL 345.00 #1 1 | Open Line SPRINGER 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | 105.25 | 111.49 | 114.03 |
| | Open Line WINCHSTR 500.00-PINAL S 500.00 #1 | 398 | 1547.97 | 1857.56 | Amps | | | 106.22 | 122.04 |
| WINCHSTR 345.00-VAIL 345.00 #1 2 | Open Line SPRINGER 345.00-VAIL2 345.00 #1 | 34 | 1499.44 | 2024.91 | Amps | | | 102.27 | 104.61 |
| | Open Line WINCHSTR 500.00-PINAL S 500.00 #1 | 398 | 1499.44 | 2024.91 | Amps | | | | 111.95 |
| WINCHSTR 345.00-VAIL 345.00 #1 3 | Open Line SPRINGER 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | 105.25 | 111.49 | 114.03 |
| | Open Line WINCHSTR 500.00-PINAL S 500.00 #1 | 398 | 1547.97 | 1857.56 | Amps | | | 106.22 | 122.04 |
| WRAY 230.00-N.YUMA 230.00 #1 1 | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 705.37 | 705.37 | Amps | | | | 105.29 |
| WRAY 230.00-WRAY 115.00 #1 0 | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 186 | 0 | MVA | | | 110.39 | 121.03 |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | |
|---------------------------------------|--------------------|--|-----|---------|---------|------|---------------|---------------|------------------|------------------|
| | | | | | | | pre10hs17.sav | pst10b_30.sav | pst10b_30sc5.sav | pst10b_30sc7.sav |
| APT TAP2 115.00-APT MEM 115.00 #1 1 | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 497.02 | 497.02 | Amps | 100.57 | | | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 497.02 | 497.02 | Amps | 101.68 | | | |
| AULT 345.00-LAR.RIVR 345.00 #1 1 | | Open Line LAR.RIVR 345.00-ARCHER 345.00 #1 | 182 | 1599.85 | 1599.85 | Amps | | 106.79 | | |
| | | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 1599.85 | 1599.85 | Amps | | 103.21 | | |
| AUSTIN_N 115.00-DYER 115.00 #1 1 | | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 590.91 | 800.26 | Amps | 101.63 | | 101.28 | |
| | | Open Line RIOPUERC 345.00-WESTMESA 345.00 #2 | 89 | 448 | 448 | MVA | | 101.41 | | |
| B-A 345.00-B-A 115.00 #1 0 | | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 150 | 193 | MVA | | 105.75 | 105.79 | 105.41 |
| BICKNELL 345.00-BICKNELL 230.00 #1 0 | | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 590.91 | 800.26 | Amps | 101.27 | | 102.37 | 101.18 |
| BIGGS 115.00-NEWMAN 115.00 #1 1 | | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 200 | 224 | MVA | 106.45 | | 106.22 | 106.12 |
| COPPERVR 345.00-COPPERVR 230.00 #1 0 | | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 200 | 224 | MVA | 134.88 | | 134.39 | 127.28 |
| | | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 200 | 224 | MVA | 101.38 | | | |
| DANIELPK 345.00-DANIELPK 230.00 #1 0 | | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 200 | 224 | MVA | 134.3 | | 133.81 | 129.76 |
| | | Open Line MORENCI 230.00-PD-MORNC 230.00 #1 | 51 | 200 | 224 | MVA | 100.59 | | 100.56 | 100.5 |
| DANIELPK 345.00-DANIELPK 230.00 #1 0 | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 560 | 560 | MVA | | 100.31 | 100.24 | 100.27 |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 560 | 560 | MVA | | 100.31 | 100.24 | 100.27 |
| EGYCNTN 230.00-EGYCNTN 500.00 #1 0 | | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 200 | 0 | MVA | | 117.56 | 106.04 | |
| | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 200 | 0 | MVA | | 167.37 | 173.55 | 164.95 |
| EGYCNTN 230.00-EGYCNTN 500.00 #2 0 | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 200 | 0 | MVA | | 103.35 | | |
| | | Open Line EGYCNTN 500.00-BOONE 500.00 #1 | 202 | 200 | 0 | MVA | | 115.6 | | |
| FLAGSTAF 345.00-PINPKBRB 345.00 #1 1 | | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 200 | 0 | MVA | | 117.56 | 106.04 | |
| | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 200 | 0 | MVA | | 167.37 | 173.55 | 164.95 |
| FLAGSTAF 345.00-PINPKBRB 345.00 #1 2 | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 200 | 0 | MVA | | 103.35 | | |
| | | Open Line EGYCNTN 500.00-BOONE 500.00 #1 | 202 | 200 | 0 | MVA | | 115.6 | | |
| FLAGSTAF 345.00-PINPKBRB 345.00 #2 1 | | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1499.44 | 1650.05 | Amps | 124.02 | | 134.27 | 129.24 |
| | | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1250.09 | 1680.17 | Amps | 121.8 | | 138.89 | 131.86 |
| FLAGSTAF 345.00-PINPKBRB 345.00 #2 2 | | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1999.97 | 1999.97 | Amps | 102.32 | | 116.68 | 106.62 |
| | | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1250.09 | 1680.17 | Amps | 121.79 | | 138.89 | 131.86 |
| FOURC1AA 100.00-FOURCORN 500.00 #1 0 | | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116.01 | | | |
| FOURCORN 345.00-FOURC1AA 100.00 #1 0 | | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116.49 | | | |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line ARAPAHOE 230.00-SANTEFE 230.00 #1 | 212 | 280 | 280 | MVA | 103.36 | | 110.64 | 108.8 |
| | | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 280 | 280 | MVA | 103.19 | | 110.64 | 108.74 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line B.SANDY 500.00-BOONE 500.00 #1 | 377 | 280 | 280 | MVA | | 111.1 | 109.65 | 108.44 |
| | | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 280 | 280 | MVA | 105.45 | | 112.96 | 110.99 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 280 | 280 | MVA | 106.25 | | 113.76 | 111.79 |
| | | Open Line BRICKCTR 345.00-DANIELPK 345.00 #1 | 162 | 280 | 280 | MVA | 102.97 | | 110.53 | 108.59 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line BRICKCTR 345.00-DANIELPK 345.00 #2 | 163 | 280 | 280 | MVA | 102.97 | | 110.53 | 108.59 |
| | | Open Line BUCKLY34 230.00-SMOKYHIL 230.00 #1 | 213 | 280 | 280 | MVA | 103.71 | | 111.12 | 109.23 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | 214 | 280 | 280 | MVA | 103.71 | | 111.12 | 109.23 |
| | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 280 | 280 | MVA | | 110.48 | 108.83 | 107.56 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line CHATFLD 230.00-WATERTON 230.00 #1 | 226 | 280 | 280 | MVA | 103.33 | | 110.56 | 108.73 |
| | | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 280 | 280 | MVA | 107.3 | | 116.17 | 113.78 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line CHEROKEE 230.00-LACOMBE 230.00 #1 | 228 | 280 | 280 | MVA | 103.66 | | 111.33 | 109.34 |
| | | Open Line CHEROKEE 230.00-RIDGE 230.00 #1 | 229 | 280 | 280 | MVA | 103.05 | | 110.58 | 108.63 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 280 | 280 | MVA | 107.33 | | 115.77 | 113.53 |
| | | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 280 | 280 | MVA | 105.39 | | 112.89 | 110.92 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 280 | 280 | MVA | 103.27 | | 110.78 | 109 |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 280 | 280 | MVA | 103.85 | | 111.48 | 109.75 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line DANIELPK 230.00-BRICKCTR 230.00 #1 | 240 | 280 | 280 | MVA | | 110.33 | | |
| | | Open Line DANIELPK 230.00-SANTEFE 230.00 #1 | 239 | 280 | 280 | MVA | 103.45 | | 110.74 | 108.9 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line DENVTM 230.00-LACOMBE 230.00 #1 | 243 | 280 | 280 | MVA | 103.28 | | 110.94 | 108.96 |
| | | Open Line EGYCNTN 500.00-BOONE 500.00 #1 | 202 | 280 | 280 | MVA | 104.22 | | 110.69 | 108.47 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 280 | 280 | MVA | 111.58 | | 120.06 | 117.79 |
| | | Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 280 | 280 | MVA | 115.61 | | 124.57 | 122.12 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line FULLER 230.00-DANIELPK 230.00 #1 | 307 | 280 | 280 | MVA | 102.93 | | | |
| | | Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 280 | 280 | MVA | 110.96 | | 119.88 | 117.46 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line GREENVAL 230.00-FTLUPTON 230.00 #1 | 217 | 280 | 280 | MVA | 104.66 | | 113.87 | 111.59 |
| | | Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 280 | 280 | MVA | 103.95 | | 111.48 | 109.54 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line GREENVAL 230.00-SKYRANCH 230.00 #1 | 218 | 280 | 280 | MVA | 103.7 | | 111.21 | 109.28 |
| | | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 280 | 280 | MVA | 104.44 | | 112.01 | 110.05 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line GREENVAL 230.00-ST.VRAIN 230.00 #1 | 219 | 280 | 280 | MVA | 103.34 | | 111.07 | 109.1 |
| | | Open Line GREENWD 230.00-MONACO12 230.00 #1 | 256 | 280 | 280 | MVA | 103.41 | | 110.65 | 108.82 |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | | Open Line JEWELL2 230.00-TOLGATE 230.00 #1 | 260 | 280 | 280 | MVA | 103.01 | | 110.42 | 108.53 |
| | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 280 | 280 | MVA | | 111.36 | 109.33 | 107.82 |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| |
|---|
| High Plains Express Contingency |
| At least a 3% decrease from previous case |
| Change of less than +/- 3% from previous case |
| At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | |
|-------|---------------------------------------|---|-----|--------|--------|------|---------------|---------------|------------------|------------------|
| | | | | | | | pre10hs17.sav | pst10b_30.sav | pst10b_30sc5.sav | pst10b_30sc7.sav |
| | FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 280 | 280 | MVA | 103.27 | 110.33 | 109.05 | 107.75 |
| | | Open Line LEETSDAL 230.00-MONACO12 230.00 #1 | 263 | 280 | 280 | MVA | 103.89 | 110.51 | 108.67 | 107.37 |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 153 | 280 | 280 | MVA | 105.72 | 112.13 | 109.91 | 108.35 |
| | | Open Line LEGGETT 230.00-NIWOT 230.00 #1 | 264 | 280 | 280 | MVA | 103.89 | 113.97 | 111.73 | 110.17 |
| | | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 265 | 280 | 280 | MVA | 103.89 | 112.13 | 109.91 | 108.35 |
| | | Open Line MEADOWHL 230.00-SMOKYHIL 230.00 #1 | 270 | 280 | 280 | MVA | 103.02 | 110.48 | 108.58 | 107.23 |
| | | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 280 | 280 | MVA | 103.09 | 110.53 | 108.58 | 107.21 |
| | | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 280 | 280 | MVA | 103.58 | 110.77 | 108.47 | 107.16 |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 280 | 280 | MVA | 108.16 | 110.77 | 108.99 | 107.74 |
| | | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 280 | 280 | MVA | 105.55 | 116.39 | 114.15 | 112.58 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 280 | 280 | MVA | 105.55 | 113.21 | 111.1 | 109.62 |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 280 | 280 | MVA | 105.55 | 113.21 | 111.1 | 109.62 |
| | | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 280 | 280 | MVA | 103.26 | 111.71 | 110.54 | 109.42 |
| | | Open Line QUINCY 230.00-BRICKCTR 230.00 #1 | 275 | 280 | 280 | MVA | 103.24 | 110.62 | 108.74 | 107.41 |
| | | Open Line QUINCY 230.00-SMOKYHIL 230.00 #1 | 274 | 280 | 280 | MVA | 110.18 | 110.61 | 108.73 | 107.39 |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 280 | 280 | MVA | 110.18 | 118.65 | 116.38 | 114.79 |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 280 | 280 | MVA | 103.06 | 110.39 | | |
| | | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 280 | 280 | MVA | 105.85 | 113.36 | 111.39 | 110 |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 277 | 280 | 280 | MVA | 103.56 | 111.07 | 109.14 | 107.78 |
| | | Open Line SKYRANCH 230.00-IMBODEN 230.00 #1 | 278 | 280 | 280 | MVA | 103.9 | 111.43 | 109.49 | 108.12 |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 279 | 280 | 280 | MVA | 103.9 | 111.43 | 109.49 | 108.12 |
| | | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 280 | 280 | MVA | 103.66 | 111.18 | 109.25 | 107.88 |
| | | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 280 | 280 | MVA | 102.91 | 111.2 | 109.27 | 107.9 |
| | | Open Line SODALAKE 230.00-CHATFLD 230.00 #1 | 209 | 280 | 280 | MVA | 102.92 | | | |
| | | Open Line SPRUCE 230.00-CHAMBERS 230.00 #1 | 300 | 280 | 280 | MVA | 102.92 | 110.33 | 108.45 | 107.12 |
| | | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 280 | 280 | MVA | 103.69 | 111.21 | 109.28 | 107.92 |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 280 | 280 | MVA | 108.36 | 116.59 | 114.35 | 112.78 |
| | | Open Line ST.VRAIN 230.00-SPNDLE 230.00 #1 | 286 | 280 | 280 | MVA | 107.55 | 116.6 | 114.06 | 112.27 |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 280 | 280 | MVA | 117.58 | 126.7 | 124.07 | 122.23 |
| | | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 280 | 280 | MVA | 114.9 | 123.86 | 121.42 | 119.71 |
| | | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 280 | 280 | MVA | 103.65 | 110.49 | 108.89 | 107.62 |
| | | Open Xfmr ARAPAHOB 115.00/ARAPAOE 230.00 #T5 | 311 | 280 | 280 | MVA | 103.65 | 111.03 | 109.17 | 107.85 |
| | | Open Xfmr BRICKCTR 115.00/BRICKCTR 230.00 #T1 | 351 | 280 | 280 | MVA | 102.96 | 110.35 | 108.47 | 107.14 |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #1 | 349 | 280 | 280 | MVA | 102.92 | 110.32 | | |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #2 | 350 | 280 | 280 | MVA | 102.92 | 110.32 | | |
| | | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 280 | 280 | MVA | 105.92 | 113.35 | 111.45 | 110.1 |
| | | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A1 | 312 | 280 | 280 | MVA | 104.29 | 111.75 | 109.87 | 108.52 |
| | | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A2 | 313 | 280 | 280 | MVA | 104.28 | 111.74 | 109.86 | 108.51 |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 280 | 280 | MVA | 103.11 | 110.51 | 108.64 | 107.31 |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 280 | 280 | MVA | 103.11 | 110.51 | 108.64 | 107.31 |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 280 | 280 | MVA | 103.11 | 110.51 | 108.64 | 107.31 |
| | | Open Xfmr DENVTM 115.00/DENVTM 230.00 #T2 | 322 | 280 | 280 | MVA | 103.7 | 111.07 | 109.21 | 107.89 |
| | | Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 280 | 280 | MVA | | | | 107.12 |
| | | Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 280 | 280 | MVA | 103.01 | 110.44 | 108.55 | 107.2 |
| | | Open Xfmr LEETSDAL 115.00/LEETSDAL 230.00 #T4 | 324 | 280 | 280 | MVA | 104.34 | 111.63 | 109.8 | 108.5 |
| | | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 280 | 280 | MVA | 103.43 | 110.62 | 108.84 | 107.59 |
| | | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #1 | 329 | 280 | 280 | MVA | 103 | 110.46 | 108.55 | 107.2 |
| | | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #2 | 331 | 280 | 280 | MVA | 103 | 110.46 | 108.55 | 107.2 |
| | | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #3 | 330 | 280 | 280 | MVA | 103 | 110.46 | 108.55 | 107.2 |
| | | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T1 | 332 | 280 | 280 | MVA | 103.24 | 110.64 | 108.78 | 107.46 |
| | | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T2 | 333 | 280 | 280 | MVA | 103.25 | 110.65 | 108.79 | 107.47 |
| | | Open Xfmr SODALAKE 115.00/SODALAKE 230.00 #T2 | 336 | 280 | 280 | MVA | 103.17 | 110.56 | 108.7 | 107.38 |
| | | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T1 | 338 | 280 | 280 | MVA | 105.81 | 113.38 | 111.45 | 110.09 |
| | | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T2 | 339 | 280 | 280 | MVA | 105.81 | 113.38 | 111.45 | 110.09 |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 280 | 280 | MVA | 103.52 | 110.7 | 108.94 | 107.68 |
| | GLADSTON 115.00-CLAPHAM 115.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 601.95 | 601.95 | Amps | | 106.91 | | |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 601.95 | 601.95 | Amps | | 102.9 | | |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 601.95 | 601.95 | Amps | | 102.9 | | |
| | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 601.95 | 601.95 | Amps | | 108.88 | | |
| | GLADSTON 115.00-SPRINGER 115.00 #1 1 | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 599.94 | 599.94 | Amps | | 149.07 | 111.76 | |
| | | Open Line B-A 345.00-NORTON 345.00 #1 | 85 | 599.94 | 599.94 | Amps | | 128.6 | 101.16 | |
| | | Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | 599.94 | 599.94 | Amps | | 121.24 | | |
| | | Open Line CF&IFURN 230.00-COMANCHE 230.00 #1 | 145 | 599.94 | 599.94 | Amps | | 122.59 | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| |
|---|
| High Plains Express Contingency |
| At least a 3% decrease from previous case |
| Change of less than +/- 3% from previous case |
| At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|----------|-----------------------------|--|-----------------------------|---|-----------------------------|--|---------------|---------------|------------------|------------------|--------|--------|
| | | | | | | | pre10hs17.sav | pst10b_30.sav | pst10b_30sc5.sav | pst10b_30sc7.sav | | |
| GLADSTON | 115.00-SPRINGER 115.00 #1 1 | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 599.94 | 599.94 | Amps | | 123.67 | | | | |
| | | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 599.94 | 599.94 | Amps | | 131.43 | | 100.7 | | |
| | | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 599.94 | 599.94 | Amps | | 131.43 | | 100.7 | | |
| | | Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | 599.94 | 599.94 | Amps | | 122.33 | | | | |
| | | Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | 599.94 | 599.94 | Amps | | 122.38 | | | | |
| | | Open Line FT.CRAIG 345.00-ARROYO 345.00 #1 | 369 | 599.94 | 599.94 | Amps | | 120.09 | | | | |
| | | Open Line FT.CRAIG 500.00-LUNA 500.00 #1 | 396 | 599.94 | 599.94 | Amps | | 125.42 | | 100.45 | | |
| | | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 599.94 | 599.94 | Amps | | 123.45 | | | | |
| | | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 599.94 | 599.94 | Amps | | 123.99 | | | | |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 599.94 | 599.94 | Amps | | 145.47 | | 108.99 | | |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 599.94 | 599.94 | Amps | | 145.47 | | 108.99 | | |
| | | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 599.94 | 599.94 | Amps | | 128.05 | | | | |
| | | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 599.94 | 599.94 | Amps | | 128.05 | | | | |
| | | Open Line HIDALGO 345.00-GREENLEE 345.00 #1 | 99 | 599.94 | 599.94 | Amps | | 119.17 | | | | |
| | | Open Line LUNA 500.00-WINCHSTR 500.00 #1 | 397 | 599.94 | 599.94 | Amps | | 122.24 | | | | |
| | | Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | 599.94 | 599.94 | Amps | | 121.89 | | | | |
| | | Open Line OJO 345.00-TAOS 345.00 #1 | 92 | 599.94 | 599.94 | Amps | | 122.87 | | | | |
| | | Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | 599.94 | 599.94 | Amps | | 121.66 | | | | |
| | | Open Line SAN_JUAN 345.00-OJO 345.00 #1 | 358 | 599.94 | 599.94 | Amps | | 143.05 | | 120.96 | | |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 599.94 | 599.94 | Amps | | 124.61 | | | | |
| | | Open Line SPRINGR 345.00-CORONADO 345.00 #1 | 32 | 599.94 | 599.94 | Amps | | 119.82 | | | | |
| | | Open Line SPRINGR 500.00-SES 500.00 #1 | 383 | 599.94 | 599.94 | Amps | | 119.91 | | | | |
| | | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 599.94 | 599.94 | Amps | | 120.72 | | | | |
| | | Open Line WINCHSTR 345.00-VAIL 345.00 #1 | 37 | 599.94 | 599.94 | Amps | | 119.77 | | | | |
| | | Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 599.94 | 599.94 | Amps | | 123.58 | | | | |
| | | Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | 599.94 | 599.94 | Amps | | 128.3 | | | | |
| | | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 599.94 | 599.94 | Amps | | 135.84 | | | | |
| | | GLENCANY | 345.00-FLAGSTAF 345.00 #1 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1999.97 | 1999.97 | Amps | 103.13 | 117.79 | 111.7 | 107.43 |
| | | GLENCANY | 345.00-FLAGSTAF 345.00 #1 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1840.83 | 2024.91 | Amps | 101.86 | 116.33 | 110.32 | 106.11 |
| | | GLENCANY | 345.00-FLAGSTAF 345.00 #2 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1250.09 | 1680.17 | Amps | 122.53 | 139.99 | 132.74 | 127.65 |
| | | GLENCANY | 345.00-FLAGSTAF 345.00 #2 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1840.83 | 2024.91 | Amps | 101.67 | 116.15 | 110.14 | 105.92 |
| | | GR | 115.00-VISTA # 115.00 #1 1 | Open Line CALIENTE 345.00-NC1 345.00 #1 | 74 | 590.91 | 800.26 | Amps | 149.06 | 152.88 | 152.12 | 149.48 |
| | | GREEN-AE | 345.00-GREEN-AE 230.00 #1 0 | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 150 | 193 | MVA | 108.88 | 108.77 | 108.62 | 108.51 |
| | | | | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 150 | 193 | MVA | 156.07 | 155.46 | 150.74 | 147.18 |
| | | | | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 150 | 193 | MVA | 155.75 | 155.13 | 150.4 | 146.84 |
| | | | | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 150 | 193 | MVA | 103.74 | | | |
| | | | | Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 150 | 193 | MVA | 132.42 | 131.88 | 127.01 | 123.35 |
| | | | | JLGREEN | 230.00-FTLUPTON 230.00 #1 1 | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 1242.56 | 1242.56 | Amps | | 102.26 |
| | | | | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 1242.56 | 1242.56 | Amps | | 104.72 | | 100.63 |
| | | | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 1242.56 | 1242.56 | Amps | | 104.87 | | 100.29 |
| | | | | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 1242.56 | 1242.56 | Amps | | 102.07 | | |
| | | | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 1242.56 | 1242.56 | Amps | 100 | 112.87 | 108.25 | 105.19 |
| | | | | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 1242.56 | 1242.56 | Amps | | 101.34 | | |
| | | | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 1242.56 | 1242.56 | Amps | | 110.21 | 105.61 | 102.55 |
| | | | | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 1242.56 | 1242.56 | Amps | | 103.48 | | |
| | | | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 1242.56 | 1242.56 | Amps | | 101.62 | | |
| | | | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1242.56 | 1242.56 | Amps | | 105.4 | 100.84 | |
| | | | | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 1242.56 | 1242.56 | Amps | | 105.32 | 101.25 | |
| LAMAR CO | 230.00-LAMAR CO 115.00 #1 0 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 100 | 100 | MVA | 113.02 | | | | | |
| | | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 100 | 100 | MVA | 112.11 | | | | | |
| | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 100 | 100 | MVA | 129.74 | 101.4 | | | | |
| | | Open Line BOONE 230.00-LAMAR CO 230.00 #1 | 143 | 100 | 100 | MVA | 123.9 | | | | | |
| | | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 100 | 100 | MVA | 113.28 | | | | | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 100 | 100 | MVA | 130.65 | 101.86 | | | | |
| | | Open Line BURLNGTN 500.00-BURLSC1 500.00 #1 | 199 | 100 | 100 | MVA | 114.06 | | | | | |
| | | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 100 | 100 | MVA | 117.32 | | | | | |
| | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 100 | 100 | MVA | 115.66 | | | | | |
| | | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 100 | 100 | MVA | 148.34 | 106.85 | 100.33 | | | |
| | | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 100 | 100 | MVA | 118.03 | | | | | |
| | | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 100 | 100 | MVA | 114.22 | | | | | |
| | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 100 | 100 | MVA | | 121.79 | | 113.96 | | |
| | | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 100 | 100 | MVA | 113.99 | | | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 100 | 100 | MVA | 112 | | | | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

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|---|
| High Plains Express Contingency |
| At least a 3% decrease from previous case |
| Change of less than +/- 3% from previous case |
| At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | |
|-------|--------------------------------------|---|-----|---------|---------|------|---------------|---------------|------------------|------------------|
| | | | | | | | pre10hs17.sav | pst10b_30.sav | pst10b_30sc5.sav | pst10b_30sc7.sav |
| | LAMAR CO 230.00-LAMAR CO 115.00 #1 0 | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 100 | 100 | MVA | 112 | | | |
| | | Open Xfmr BOONE 115.00/BOONE 230.00 #1 | 355 | 100 | 100 | MVA | 132.53 | 111.24 | 109.39 | 109.23 |
| | | Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A1 | 314 | 100 | 100 | MVA | 112.89 | | | |
| | | Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A2 | 315 | 100 | 100 | MVA | 112.92 | | | |
| | | Open Xfmr LAMAR CO 500.00/LAMAR CO 230.00 #1 | 403 | 100 | 100 | MVA | | 108.56 | 104.39 | 102.21 |
| | LAR_RIVR 345.00-AULT 345.00 #1 1 | Open Line DAVEJOHN 500.00-PAWNEE 500.00 #1 | 375 | 1599.85 | 1599.85 | Amps | 100.96 | | | |
| | LAR_RIVR 500.00-LAR_RIVR 345.00 #1 0 | Open Line LAR_RIVR 500.00-WRAY 500.00 #1 | 389 | 840 | 1200 | MVA | 103.83 | | | |
| | LUNA 345.00-LUNA 115.00 #1 0 | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 224 | 224 | MVA | 103.32 | | | |
| | MIDWAYBR 230.00-RD_NIXON 230.00 #1 1 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 1209.93 | 1209.93 | Amps | 107.21 | | | |
| | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 1209.93 | 1209.93 | Amps | 102.82 | | | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 1209.93 | 1209.93 | Amps | 103.44 | | | |
| | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 1209.93 | 1209.93 | Amps | 100.31 | | | |
| | | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 1209.93 | 1209.93 | Amps | 101.85 | | | |
| | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 1209.93 | 1209.93 | Amps | 105.66 | | | |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 1209.93 | 1209.93 | Amps | 110.61 | | | |
| | | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 1209.93 | 1209.93 | Amps | 101.06 | | | |
| | | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 1209.93 | 1209.93 | Amps | 103.41 | | | |
| | NEWMAN 115.00-NEWMAN_B 345.00 #1 0 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 101.84 | 110.46 | 106.62 | 103.59 |
| | NEWMAN_B 345.00-NEWMAN 345.00 #1 0 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 100.98 | 109.31 | 105.64 | 102.74 |
| | OJO 345.00-OJO 115.00 #1 0 | Open Line FOURCORN 345.00-WESTMESA 345.00 #1 | 357 | 180 | 180 | MVA | 103.46 | | | |
| | | Open Line OJO 345.00-TAOS 345.00 #1 | 92 | 180 | 180 | MVA | 107.43 | | | |
| | P_VALLEY 115.00-TODD CRE 115.00 #1 1 | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 676.75 | 676.75 | Amps | 105.04 | 104.49 | 104.52 | 104.61 |
| | PNPKAPS 230.00-PINK 230.00 #1 1 | Open Line RACEWAY 500.00-PNPKAPS 500.00 #1 | 109 | 1691.89 | 1998.13 | Amps | 113.5 | 112.61 | 111.9 | 111.59 |
| | RD_NIXON 230.00-MIDWAYBR 230.00 #1 1 | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 1209.93 | 1209.93 | Amps | 100.27 | | | |
| | | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 1209.93 | 1209.93 | Amps | 100.6 | | | |
| | | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 1209.93 | 1209.93 | Amps | 100.77 | | | |
| | | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 1209.93 | 1209.93 | Amps | 100.19 | | | |
| | | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 1209.93 | 1209.93 | Amps | 135.24 | 116.04 | 118.48 | 120.62 |
| | | Open Line MIDWAYPS 230.00-MIDWAYBR 230.00 #1 | 156 | 1209.93 | 1209.93 | Amps | 104.57 | | | |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 1209.93 | 1209.93 | Amps | 108.17 | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 1209.93 | 1209.93 | Amps | 100.33 | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 1209.93 | 1209.93 | Amps | 100.33 | | | |
| | | Open Line TARRYALL 230.00-HARTSELT 230.00 #1 | 161 | 1209.93 | 1209.93 | Amps | 100.11 | | | |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1209.93 | 1209.93 | Amps | 100.04 | | | |
| | | Open Xfmr DANIELPK 115.00/DANIELPK 230.00 #T1 | 318 | 1209.93 | 1209.93 | Amps | 100.68 | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 1209.93 | 1209.93 | Amps | 100.11 | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 1209.93 | 1209.93 | Amps | 100.11 | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 1209.93 | 1209.93 | Amps | 100.11 | | | |
| | | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 1209.93 | 1209.93 | Amps | 107.89 | | | |
| | | Open Xfmr TARRYALL 115.00/TARRYALL 230.00 #T1 | 337 | 1209.93 | 1209.93 | Amps | 100.76 | | | |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 1209.93 | 1209.93 | Amps | 107.93 | | | |
| | RIO GRAN 115.00-MESA # 115.00 #1 1 | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 720.93 | 982 | Amps | 100.65 | | | |
| | ROCKISLD 115.00-KELKER W 115.00 #1 1 | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 798.25 | 798.25 | Amps | 100.84 | | | |
| | ROGERS 230.00-ROGSWAPA 230.00 #1 1 | Open Line HASSYAMP 500.00-JOJOBA 500.00 #1 | 28 | 1001.58 | 1001.58 | Amps | | 103.01 | | |
| | ROGERS 230.00-ROGSWAPA 230.00 #2 1 | Open Line HASSYAMP 500.00-JOJOBA 500.00 #1 | 28 | 1001.58 | 1001.58 | Amps | | 103.01 | | |
| | ROGSWAPA 230.00-ROGERS 230.00 #1 1 | Open Line CORONADO 500.00-SILVERKRG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 100.37 | 110.44 | 108.05 | 106.22 |
| | | Open Line HASSYAMP 500.00-JOJOBA 500.00 #1 | 28 | 1001.58 | 1001.58 | Amps | | 105.08 | | 101.47 |
| | | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | 110.19 | 107.01 | 104.74 | 103.08 |
| | ROGSWAPA 230.00-ROGERS 230.00 #2 1 | Open Line CORONADO 500.00-SILVERKRG 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 100.37 | 110.44 | 108.05 | 106.22 |
| | | Open Line HASSYAMP 500.00-JOJOBA 500.00 #1 | 28 | 1001.58 | 1001.58 | Amps | | 105.08 | | 101.47 |
| | | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | 110.19 | 107.01 | 104.74 | 103.08 |
| | SHIPROCK 230.00-SHIPROCK 345.00 #1 0 | Open Line CORONADO 500.00-SILVERKRG 500.00 #1 | 23 | 300 | 300 | MVA | | | | 100.36 |
| | | Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 | 2 | 300 | 300 | MVA | | | | 101.42 |
| | | Open Line RME 500.00-FCW 500.00 #1 | 71 | 300 | 300 | MVA | | | 105.45 | 110.52 |
| | SILVSADL 230.00-REUNION 230.00 #1 1 | Open Line BUCKLY34 230.00-SMOKYHIL 230.00 #1 | 213 | 818.33 | 818.33 | Amps | | 102.24 | | |
| | | Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | 214 | 818.33 | 818.33 | Amps | | 102.24 | | |
| | | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 818.33 | 818.33 | Amps | 100.96 | 105.57 | 102.1 | |
| | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 818.33 | 818.33 | Amps | 100.94 | 104.88 | 101.63 | |
| | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 818.33 | 818.33 | Amps | 107.53 | 111.57 | 108.28 | 106.25 |
| | | Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 818.33 | 818.33 | Amps | 113.67 | 118.42 | 114.89 | 112.68 |
| | | Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 818.33 | 818.33 | Amps | 106.41 | 111.1 | 107.59 | 105.4 |
| | | Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 818.33 | 818.33 | Amps | 101.12 | 104.02 | 101.01 | |
| | | Open Line GREENVAL 230.00-SKYRANCH 230.00 #1 | 218 | 818.33 | 818.33 | Amps | | 102.53 | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | |
|---|--------------------|---|--------|---------|---------|--------|---------------|---------------|------------------|------------------|
| | | | | | | | pre10hs17.sav | pst10b_30.sav | pst10b_30sc5.sav | pst10b_30sc7.sav |
| SILVSADL 230.00-REUNION 230.00 #1 1 | | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 818.33 | 818.33 | Amps | 103.75 | 106.88 | 103.74 | 101.83 |
| | | Open Line LEGGETT 230.00-NIWOT 230.00 #1 | 264 | 818.33 | 818.33 | Amps | | 100.3 | | |
| | | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 818.33 | 818.33 | Amps | | 103.11 | 100.01 | |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 818.33 | 818.33 | Amps | 105.35 | 109.35 | 106.08 | 104.06 |
| | | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 277 | 818.33 | 818.33 | Amps | | 101.78 | | |
| | | Open Line SKYRANCT 230.00-IMBODEN 230.00 #1 | 278 | 818.33 | 818.33 | Amps | 100.86 | 103.75 | 100.74 | |
| | | Open Line SKYRANCT 230.00-SPRUCE 230.00 #1 | 279 | 818.33 | 818.33 | Amps | 100.87 | 103.76 | 100.75 | |
| | | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 818.33 | 818.33 | Amps | 101.18 | 104.17 | 101.13 | |
| | | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 818.33 | 818.33 | Amps | 101.3 | 104.3 | 101.26 | |
| | | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 818.33 | 818.33 | Amps | 101.39 | 104.38 | 101.34 | |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 818.33 | 818.33 | Amps | 100.02 | 103.38 | 100.28 | |
| | | Open Line ST.VRAIN 230.00-SPNDLE 230.00 #1 | 286 | 818.33 | 818.33 | Amps | | 100.43 | | |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 818.33 | 818.33 | Amps | 103.68 | 107.47 | 104.16 | 102.13 |
| | | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 818.33 | 818.33 | Amps | 112.44 | 117.2 | 113.66 | 111.46 |
| | | Open Xfmr CHAMBERS 115.00-CHAMBERS 230.00 #1 | 348 | 818.33 | 818.33 | Amps | 102.26 | 104.68 | 101.87 | 100.17 |
| Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 818.33 | 818.33 | Amps | 100.02 | 102.86 | 100.03 | | | |
| SPKHILT 230.00-COOLIDGE 230.00 #1 1 | | Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 | 7 | 800.76 | 853.47 | Amps | | | | 100.04 |
| | | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 800.76 | 853.47 | Amps | | 101.51 | 108.04 | 112.6 |
| | | Open Line HASSYAMP 500.00-JOJOBA 500.00 #1 | 28 | 800.76 | 853.47 | Amps | | | 100.39 | 104.81 |
| | | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 800.76 | 853.47 | Amps | | | 101.96 | 106.28 |
| | | Open Line RACEWAY 500.00-PNPKAPS 500.00 #r1 | 109 | 800.76 | 853.47 | Amps | | | | 104.48 |
| Open Line SNTAROSA 230.00-DBG 230.00 #1 | 22 | 800.76 | 853.47 | Amps | | | 100.15 | 105.33 | | |
| VERDE S 230.00-COCONINO 230.00 #1 1 | | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 529.66 | 529.66 | Amps | 121.99 | 123.63 | 123.07 | 122.72 |
| | | Open Xfmr WALSENBG 230.00-WALSENBG 115.00 #1 0 | 341 | 100 | 100 | MVA | | | | 102.92 |
| WALSENBG 230.00-WALSENBG 115.00 #2 0 | | Open Xfmr WALSENBG 230.00/WALSENBG 115.00 #1 | 340 | 100 | 100 | MVA | | | 103.16 | |
| WINCHSTR 345.00-VAIL 345.00 #1 1 | | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 1547.97 | 1857.56 | Amps | | | 102.87 | 105.55 |
| | | Open Line BUTERFLD 230.00-G.SLOAN 230.00 #1 | 44 | 1547.97 | 1857.56 | Amps | | | | 100.23 |
| | | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | 110.55 | 115.41 | 116.77 |
| | | Open Line WINCHSTR 500.00-PINAL S 500.00 #1 | 398 | 1547.97 | 1857.56 | Amps | | | 109.06 | 116.26 |
| WINCHSTR 345.00-VAIL 345.00 #1 2 | | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1499.44 | 2024.91 | Amps | | 101.42 | 105.87 | 107.12 |
| | | Open Line WINCHSTR 500.00-PINAL S 500.00 #1 | 398 | 1499.44 | 2024.91 | Amps | | | 100.04 | 106.65 |
| WINCHSTR 345.00-VAIL 345.00 #1 3 | | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 1547.97 | 1857.56 | Amps | | | 102.87 | 105.55 |
| | | Open Line BUTERFLD 230.00-G.SLOAN 230.00 #1 | 44 | 1547.97 | 1857.56 | Amps | | | | 100.23 |
| | | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | 110.55 | 115.41 | 116.77 |
| | | Open Line WINCHSTR 500.00-PINAL S 500.00 #1 | 398 | 1547.97 | 1857.56 | Amps | | | 109.06 | 116.26 |
| WRAY 230.00-WRAY 115.00 #1 0 | | Drop Generator at DJ GEN 1 16.00 #1, 500 MW Dropped | 404 | 186 | 0 | MVA | | 132.41 | 135.92 | 138.29 |
| | | Drop Generator at DJ GEN 2 16.00 #1, 500 MW Dropped | 405 | 186 | 0 | MVA | | 132.41 | 135.92 | 138.29 |
| | | Drop Generator at DJ GEN 3 16.00 #1, 500 MW Dropped | 406 | 186 | 0 | MVA | | 132.41 | 135.92 | 138.29 |
| | | Drop Generator at LR GEN 1 16.00 #1, 500 MW Dropped | 409 | 186 | 0 | MVA | | 132.46 | 135.83 | 138.17 |
| | | Drop Generator at LR GEN 2 16.00 #1, 500 MW Dropped | 410 | 186 | 0 | MVA | | 132.46 | 135.83 | 138.17 |
| | | Drop Generator at LR GEN 3 16.00 #1, 500 MW Dropped | 411 | 186 | 0 | MVA | | 132.46 | 135.83 | 138.17 |
| | | Open Line ARCHER 345.00-STORY 345.00 #1 | 181 | 186 | 0 | MVA | | 130.63 | 134.75 | 137.54 |
| | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 186 | 0 | MVA | | 138.66 | | 142.01 |
| | | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 186 | 0 | MVA | | 130.76 | | |
| | | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 186 | 0 | MVA | | 131.5 | 135.39 | 138.08 |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 186 | 0 | MVA | | 137.2 | 139.33 | 140.9 |
| | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 186 | 0 | MVA | | 132.27 | 136.51 | 139.05 |
| | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 186 | 0 | MVA | | 130.28 | 134.37 | 137.26 |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 186 | 0 | MVA | | 130.72 | 134.8 | 137.67 |
| | | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 186 | 0 | MVA | | 130.35 | | |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 186 | 0 | MVA | | 130.32 | | |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 186 | 0 | MVA | | 130.32 | | |
| | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 186 | 0 | MVA | | 131.44 | 136.49 | 139.51 |
| | | Open Line LAR_RIVR 230.00-STEGALL 230.00 #1 | 180 | 186 | 0 | MVA | | 130.75 | 134.89 | 137.74 |
| | | Open Line LAR_RIVR 345.00-ARCHER 345.00 #1 | 182 | 186 | 0 | MVA | | 131.05 | 135.93 | 138.83 |
| | | Open Line LUNA 500.00-WINCHSTR 500.00 #1 | 397 | 186 | 0 | MVA | | 130.61 | 134.79 | 137.37 |
| | | Open Line N.YUMA 230.00-WRAY 230.00 #1 | 184 | 186 | 0 | MVA | | 135.02 | 140.92 | 144.92 |
| | | Open Line PAWNEE 230.00-STORY 230.00 #1 | 158 | 186 | 0 | MVA | | | 134.86 | 138.09 |
| | | Open Line SIDNEY 230.00-STEGALL 230.00 #1 | 187 | 186 | 0 | MVA | | 133.67 | 137.89 | 140.68 |
| | | Open Line STORY 345.00-ARCHER 345.00 #1 | 191 | 186 | 0 | MVA | | 130.63 | 134.75 | 137.54 |
| | | Open Line STORY 230.00-PAWNEE 230.00 #1 | 306 | 186 | 0 | MVA | | | 134.86 | 138.09 |
| | | Open Line WESTHILL 230.00-STEGALL 230.00 #1 | 179 | 186 | 0 | MVA | | 130.25 | 134.4 | 137.29 |
| Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 186 | 0 | MVA | | 143.59 | 153.71 | 155.76 | | |

| | |
|--------------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | |
|--|---|
| | High Plains Express Contingency |
| | At least a 3% decrease from previous case |
| | Change of less than +/- 3% from previous case |
| | At least a 3% increase from previous case |

| E PCT | | | | | | | | BASECASE | | | | |
|---------------------------|-------------|-----------|---|--|-----------|---------------|---------------|-----------------|----------------------|----------------------|-------------------------|-------------------------|
| OVERLOADED ELEMENT | | | | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | pst10b_30.sav | pst10b_30sc5.sav | pst10b_30sc7.sav |
| WRAY | 230.00-WRAY | 115.00 #1 | 0 | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 186 | 0 | MVA | | 130.23 | | |
| | | | | Open Xfmr LAR.RIVR 500.00/LAR.RIVR 345.00 #1 | 399 | 186 | 0 | MVA | | | 135.53 | 137.9 |
| | | | | Open Xfmr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | 186 | 0 | MVA | | 133.06 | 137.19 | 140.05 |

| AREA | | (All) | High Plains Express Contingency | | pre10hs17 | Pre Project | | | | | | | | |
|--------------------|-----------------|----------------------------|---|--|-----------|-------------|----------|---------------|-------------|-------------|-------------|-------------|-------------|--------|
| ZONE | | (All) | At least a 3% decrease from previous case | | 11b30c7 | 3000 MW gen | 70% Comp | | | | | | | |
| TYPE | | (All) | Change of less than ± 3% from previous case | | 11b35c7 | 3500 MW gen | 70% Comp | | | | | | | |
| NOTES | | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | | 11b40c7 | 4000 MW gen | 70% Comp | | | | | | | |
| | | | | | 11b45c7 | 4500 MW gen | 70% Comp | | | | | | | |
| | | | | | 11b50c7 | 5000 MW gen | 70% Comp | | | | | | | |
| E PCT | | | | | | | | | | | | | | |
| OVERLOADED ELEMENT | | | | CONTINGENCY | | | | BASECASE | | | | | | |
| | | | | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 11b30c7.sav | 11b35c7.sav | 11b40c7.sav | 11b45c7.sav | 11b50c7.sav | |
| APT TAP2 | 115.00-APT MEM | 115.00 #1 | 1 | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 497.02 | 497.02 | Amps | 101.68 | | | | | |
| | | | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 497.02 | 497.02 | Amps | 100.57 | | | | | |
| AULT | 345.00-LAR.RIVR | 345.00 #1 | 1 | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 1599.85 | 1599.85 | Amps | | | | | | 102.92 |
| AUSTIN N | 115.00-DYER | 115.00 #1 | 1 | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 590.91 | 800.26 | Amps | 101.63 | 101.29 | | | | |
| BEAVERCK | 230.00-STORY | 230.00 #1 | 1 | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 1109.52 | 1109.52 | Amps | | | | 101.41 | 108.45 | 115.03 |
| BICKNELL | 345.00-BICKNELL | 230.00 #1 | 0 | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 150 | 193 | MVA | | 105.4 | 105.89 | 106.42 | 106.63 | 107.09 |
| BIGGS | 115.00-NEWMAN | 115.00 #1 | 1 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 590.91 | 800.26 | Amps | 101.27 | 102.29 | 100.72 | 101.76 | 101.71 | |
| BOONE | 500.00-GLADSTON | 500.00 #1 | 1 | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 3464.1 | 3810.51 | Amps | | | | 103.11 | 115.04 | |
| BOONE | 500.00-GLADSTON | 500.00 #1 | 2 | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 3464.1 | 3810.51 | Amps | | | | 103.11 | 115.04 | |
| BOONE | 500.00-GLADSTON | 500.00 #1 | 3 | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 3464.1 | 3810.51 | Amps | | | | 103.11 | 115.04 | |
| CHOLLA | 230.00-CHOLLA 7 | 100.00 #1 | 0 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 203 | 203 | MVA | | | | | | 103.19 |
| CHOLLA | 345.00-CHOLLA 7 | 100.00 #1 | 0 | Open Line MOENKOPI 500.00-YAVAPAI 500.00 #1 | 3 | 203 | 203 | MVA | | | | | 102.4 | 105.26 |
| | | | | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 203 | 203 | MVA | | | | | | 103.27 |
| | | | | Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 | 7 | 203 | 203 | MVA | | | | | | 100.7 |
| CHOLLA 7 | 100.00-CHOLLA | 230.00 #1 | 0 | Open Line MOENKOPI 500.00-YAVAPAI 500.00 #1 | 3 | 203 | 203 | MVA | | | | | 101.62 | 104.57 |
| COOLIDGE | 230.00-SPKHILTP | 230.00 #1 | 1 | Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 | 2 | 800.76 | 853.47 | Amps | | | | | 100.66 | 102.56 |
| | | | | Open Line MOENKOPI 500.00-YAVAPAI 500.00 #1 | 3 | 800.76 | 853.47 | Amps | | | | | | 102.37 |
| | | | | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 800.76 | 853.47 | Amps | | | | | | 101.09 |
| | | | | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 800.76 | 853.47 | Amps | | | | | | 117.55 |
| | | | | Open Line RME 500.00-FCW 500.00 #1 | 71 | 800.76 | 853.47 | Amps | | | | | 102.12 | 104.12 |
| | | | | Open Line SNTAROSA 230.00-DBG 230.00 #1 | 22 | 800.76 | 853.47 | Amps | | | | | 110.16 | 112.41 |
| | | | | Open Line YAVAPAI 500.00-WESTWING 500.00 #1 | 5 | 800.76 | 853.47 | Amps | | | | | | 100.9 |
| | | | | Open Line CHOLLA 345.00-PNPKAPS 345.00 #1 | 6 | 800.76 | 853.47 | Amps | | | | | 103.7 | 105.68 |
| | | | | Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 | 7 | 800.76 | 853.47 | Amps | | | | | 104.08 | 106.07 |
| | | | | Open Line SAGUARO 230.00-TATMOMLI 230.00 #1 | 20 | 800.76 | 853.47 | Amps | | | | | | 101.11 |
| | | | | Open Line SNTAROSA 230.00-TATMOMLI 230.00 #1 | 21 | 800.76 | 853.47 | Amps | | | | | | 100.95 |
| | | | | Open Line SNTAROSA 500.00-PINAL W 500.00 #1 | 26 | 800.76 | 853.47 | Amps | | | | | 105.54 | 109.47 |
| | | | | Open Line SPRINGR 345.00-CORONADO 345.00 #1 | 32 | 800.76 | 853.47 | Amps | | | | | 103.16 | 105.2 |
| | | | | Open Line VAIL 345.00-SOUTH 345.00 #1 | 35 | 800.76 | 853.47 | Amps | | | | | | 101.64 |
| | | | | Open Line WESTWING 345.00-PINALWES 345.00 #1 | 36 | 800.76 | 853.47 | Amps | | | | | | 101.79 |
| | | | | Open Line APACHE 230.00-WINCHSTR 230.00 #1 | 42 | 800.76 | 853.47 | Amps | | | | | | 100.64 |
| | | | | Open Line BUTERFLD 230.00-SAN RAF 230.00 #1 | 46 | 800.76 | 853.47 | Amps | | | | | | 101.17 |
| | | | | Open Line GLEN PS 230.00-NAVAJO 230.00 #1 | 61 | 800.76 | 853.47 | Amps | | | | | | 100.39 |
| | | | | Open Line KAYENTA 230.00-SHIPROCK 230.00 #1 | 62 | 800.76 | 853.47 | Amps | | | | | 101.04 | 102.93 |
| | | | | Open Line KAYENTA 230.00-LNGHOUSE 230.00 #1 | 63 | 800.76 | 853.47 | Amps | | | | | 100.69 | 102.58 |
| | | | | Open Line NAVAJO 230.00-LNGHOUSE 230.00 #1 | 65 | 800.76 | 853.47 | Amps | | | | | 100.39 | 102.28 |
| | | | | Open Line CACTUS 230.00-OCOTILLO 230.00 #1 | 10 | 800.76 | 853.47 | Amps | | | | | | 100.63 |
| COPPERVR | 345.00-COPPERVR | 230.00 #1 | 0 | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 200 | 224 | MVA | 106.45 | 106.12 | 106.57 | 107.1 | 102.66 | 103.4 |
| | | | | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 200 | 224 | MVA | 134.88 | 127.26 | 128.06 | 128.85 | 127.25 | 128.59 |
| | | | | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 200 | 224 | MVA | 134.3 | 126.69 | 127.48 | 128.27 | 126.62 | 127.96 |
| | | | | Open Line MORENCI 230.00-PD-MORNC 230.00 #1 | 51 | 200 | 224 | MVA | 100.59 | 100.46 | 100.64 | 100.85 | 100.73 | 101.04 |
| | | | | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 200 | 224 | MVA | 101.38 | | | | | |
| CORONA | 500.00-FT.CRAIG | 500.00 #1 | 1 | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 3464.1 | 3810.51 | Amps | | | | | 104.63 | 116.72 |
| CORONA | 500.00-FT.CRAIG | 500.00 #1 | 2 | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 3464.1 | 3810.51 | Amps | | | | | 104.63 | 116.72 |
| CORONA | 500.00-FT.CRAIG | 500.00 #1 | 3 | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 3464.1 | 3810.51 | Amps | | | | | 104.63 | 116.72 |
| CORONA | 500.00-FT.CRAIG | 500.00 #2 | 1 | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 3464.1 | 3810.51 | Amps | | | | | 104.63 | 116.72 |
| CORONA | 500.00-FT.CRAIG | 500.00 #2 | 2 | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 3464.1 | 3810.51 | Amps | | | | | 104.63 | 116.72 |
| CORONA | 500.00-FT.CRAIG | 500.00 #2 | 3 | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 3464.1 | 3810.51 | Amps | | | | | 104.63 | 116.72 |
| CTRYCLUB | 230.00-LINCSTR | 230.00 #1 | 1 | Open Line REACH 230.00-PNPKAPS 230.00 #1 | 14 | 1399.95 | 2035.03 | Amps | | | | 100.03 | | |
| DANIELPK | 345.00-DANIELPK | 230.00 #1 | 0 | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 560 | 560 | MVA | 100.31 | 100.39 | 100.42 | 100.33 | 100.3 | |
| | | | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 560 | 560 | MVA | 100.31 | 100.39 | 100.42 | 100.33 | 100.3 | |
| DAVEJOHN | 500.00-PAWNEE | 500.00 #1 | 1 | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 3464.1 | 3810.51 | Amps | | | | | | 103.03 |
| DAVEJOHN | 500.00-PAWNEE | 500.00 #1 | 2 | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 3464.1 | 3810.51 | Amps | | | | | | 103.03 |
| DAVEJOHN | 500.00-PAWNEE | 500.00 #1 | 3 | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 3464.1 | 3810.51 | Amps | | | | | | 103.03 |
| DEERVALY | 230.00-PINPKSRP | 230.00 #1 | 1 | Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 | 2 | 1199.88 | 1199.88 | Amps | | | | | | 100.97 |
| | | | | Open Line MOENKOPI 500.00-YAVAPAI 500.00 #1 | 3 | 1199.88 | 1199.88 | Amps | | | | | | 102.19 |
| | | | | Open Line REACH 230.00-PNPKAPS 230.00 #1 | 14 | 1199.88 | 1199.88 | Amps | | | | | 102.71 | 105.91 |
| | | | | Open Line RME 500.00-FCW 500.00 #1 | 71 | 1199.88 | 1199.88 | Amps | | | | | | 102.65 |
| | | | | Open Line CHOLLA 500.00-SAGUARO 500.00 #1 | 1 | 1199.88 | 1199.88 | Amps | | | | | | 100.31 |
| | | | | Open Line YAVAPAI 500.00-WESTWING 500.00 #1 | 5 | 1199.88 | 1199.88 | Amps | | | | | 100.02 | 103.34 |
| | | | | Open Line SNTAROSA 500.00-PINAL W 500.00 #1 | 26 | 1199.88 | 1199.88 | Amps | | | | | | 101.84 |
| | | | | Open Line LONEPEAK 230.00-PNPKAPS 230.00 #1 | 13 | 1199.88 | 1199.88 | Amps | | | | | | 102.48 |
| | | | | Open Line CACTUS 230.00-PNPKAPS 230.00 #1 | 11 | 1199.88 | 1199.88 | Amps | | | | | 102.36 | 105.55 |

Appendix A: Power Flow Summary Results
 Eastern and Western Corridors - 70% Series Compensation Maximum Flow Determination

11B SC GS Overload-by-Element
 All Contingencies

| | | | | |
|-------|----------------------------|---|-----------|----------------------|
| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project |
| ZONE | (All) | At least a 3% decrease from previous case | 11b30c7 | 3000 MW gen 70% Comp |
| TYPE | (All) | Change of less than ± 3% from previous case | 11b35c7 | 3500 MW gen 70% Comp |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 11b40c7 | 4000 MW gen 70% Comp |
| | | | 11b45c7 | 4500 MW gen 70% Comp |
| | | | 11b50c7 | 5000 MW gen 70% Comp |

| E PCT | | | | | | BASECASE | | | | | | | | | | |
|--------------------|-----------------|------------|-----|--------------------|-----------------|-----------|--------|---------|---------|---------------|-------------|-------------|-------------|-------------|-------------|--------|
| OVERLOADED ELEMENT | | | | | | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 11b30c7.sav | 11b35c7.sav | 11b40c7.sav | 11b45c7.sav | 11b50c7.sav | |
| DEERVALY | 230.00-PINPKSRP | 230.00 #1 | 1 | Open Line PNP KAPS | 230.00-OCOTILLO | 230.00 #1 | 15 | 1199.88 | 1199.88 | Amps | | | | | 100.88 | |
| EGYCNT | 230.00-EGYCNT | 500.00 #1 | 0 | Open Line EGYCNR | 500.00-BOONE | 500.00 #1 | 202 | 200 | 200 | MVA | | | | | 100.77 | |
| | | | | Open Line BURLSC1 | 500.00-HOLCOMB | 500.00 #1 | 206 | 200 | 200 | MVA | | | | | 104.77 | |
| | | | | Open Line BOONE | 500.00-GLADSTON | 500.00 #1 | 378 | 200 | 200 | MVA | | | 100.58 | 112.43 | 119.41 | 133.03 |
| | | | | Open Line BURLNGTN | 500.00-LAMAR CO | 500.00 #1 | 391 | 200 | 200 | MVA | 164.98 | 183.42 | 204.45 | 220.81 | 241.71 | |
| EGYCNT | 230.00-EGYCNT | 500.00 #2 | 0 | Open Line EGYCNR | 500.00-BOONE | 500.00 #1 | 202 | 200 | 200 | MVA | | | | | 100.77 | |
| | | | | Open Line BURLSC1 | 500.00-HOLCOMB | 500.00 #1 | 206 | 200 | 200 | MVA | | | | | 104.77 | |
| | | | | Open Line BOONE | 500.00-GLADSTON | 500.00 #1 | 378 | 200 | 200 | MVA | | | 100.58 | 112.43 | 119.41 | 133.03 |
| | | | | Open Line BURLNGTN | 500.00-LAMAR CO | 500.00 #1 | 391 | 200 | 200 | MVA | 164.98 | 183.42 | 204.45 | 220.81 | 241.71 | |
| FLAGSTAF | 345.00-PINPKBRB | 345.00 #1 | 1 | Open Line FLAGSTAF | 345.00-PINPKBRB | 345.00 #2 | 60 | 1499.44 | 1650.05 | Amps | 124.02 | 129.26 | 132.49 | 135.97 | 137.99 | 141.85 |
| FLAGSTAF | 345.00-PINPKBRB | 345.00 #1 | 2 | Open Line FLAGSTAF | 345.00-PINPKBRB | 345.00 #2 | 60 | 1250.09 | 1680.17 | Amps | 121.8 | 126.94 | 130.12 | 133.53 | 135.52 | 139.3 |
| FLAGSTAF | 345.00-PINPKBRB | 345.00 #2 | 1 | Open Line FLAGSTAF | 345.00-PINPKBRB | 345.00 #1 | 59 | 1999.97 | 1999.97 | Amps | 102.32 | 106.64 | 109.31 | 112.18 | 113.85 | 117.03 |
| FLAGSTAF | 345.00-PINPKBRB | 345.00 #2 | 2 | Open Line FLAGSTAF | 345.00-PINPKBRB | 345.00 #1 | 59 | 1250.09 | 1680.17 | Amps | 121.79 | 126.94 | 130.11 | 133.53 | 135.51 | 139.3 |
| FOURC1AA | 100.00-FOURCORN | 500.00 #1 | 0 | Open Line RME | 500.00-FCW | 500.00 #1 | 71 | 840 | 840 | MVA | 116.01 | | | | | |
| FOURCORN | 345.00-FOURC1AA | 100.00 #1 | 0 | Open Line RME | 500.00-FCW | 500.00 #1 | 71 | 840 | 840 | MVA | 116.49 | | | | | |
| FT.CRAIG | 345.00-FT.CRAIG | 500.00 #1 | 0 | Open Line FT.CRAIG | 500.00-LUNA | 500.00 #1 | 396 | 840 | 1200 | MVA | | | | 105.53 | 110.27 | |
| FTLUPTON | 230.00-FTLUPTON | 115.00 #T3 | 0 | Open Line LEGGETT | 230.00-PLNENDSS | 230.00 #1 | 153 | 280 | 280 | MVA | 103.89 | 108.34 | 108.93 | 109.42 | 109.93 | 110.67 |
| | | | | Open Line MIDWAYPS | 230.00-FULLER | 230.00 #1 | 157 | 280 | 280 | MVA | 102.97 | 107.21 | 107.72 | 108.11 | 108.55 | 109.22 |
| | | | | Open Line BRICKCTR | 345.00-DANIELPK | 345.00 #1 | 162 | 280 | 280 | MVA | 102.97 | 107.21 | 107.72 | 108.11 | 108.55 | 109.22 |
| | | | | Open Line BRICKCTR | 345.00-DANIELPK | 345.00 #2 | 163 | 280 | 280 | MVA | 103.85 | 108.5 | 108.99 | 109.37 | 109.75 | 110.39 |
| | | | | Open Line DANIELPK | 345.00-SQUIRLCR | 345.00 #1 | 165 | 280 | 280 | MVA | 103.27 | 107.74 | 108.21 | 108.57 | 108.97 | 109.61 |
| | | | | Open Line DANIELPK | 345.00-COMANCHE | 345.00 #2 | 166 | 280 | 280 | MVA | 103.19 | 107.39 | 107.89 | 108.26 | 108.68 | 109.33 |
| | | | | Open Line B.SANDY | 230.00-125ROAD | 230.00 #1 | 177 | 280 | 280 | MVA | 103.09 | 107.2 | 107.71 | 108.1 | 108.53 | 109.2 |
| | | | | Open Line MIDWAYBR | 230.00-LINCOLNT | 230.00 #1 | 193 | 280 | 280 | MVA | 104.22 | | | | | |
| | | | | Open Line EGYCNR | 500.00-BOONE | 500.00 #1 | 202 | 280 | 280 | MVA | 103.36 | 107.49 | 107.97 | 108.33 | 108.74 | 109.38 |
| | | | | Open Line ARAPAHOE | 230.00-SANTEFE | 230.00 #1 | 212 | 280 | 280 | MVA | 103.71 | 107.89 | 108.38 | 108.76 | 109.18 | 109.83 |
| | | | | Open Line BUCKLY34 | 230.00-SMOKYHIL | 230.00 #1 | 213 | 280 | 280 | MVA | 103.71 | 107.89 | 108.38 | 108.76 | 109.18 | 109.83 |
| | | | | Open Line BUCKLY34 | 230.00-TOLGATE | 230.00 #1 | 214 | 280 | 280 | MVA | 103.71 | 107.89 | 108.38 | 108.76 | 109.18 | 109.83 |
| | | | | Open Line BARRLAKE | 230.00-GREENVAL | 230.00 #1 | 215 | 280 | 280 | MVA | 105.45 | 109.59 | 110.11 | 110.51 | 110.95 | 111.63 |
| | | | | Open Line BARRLAKE | 230.00-REUNION | 230.00 #1 | 216 | 280 | 280 | MVA | 106.25 | 110.39 | 110.91 | 111.32 | 111.76 | 112.44 |
| | | | | Open Line GREENVAL | 230.00-FTLUPTON | 230.00 #1 | 217 | 280 | 280 | MVA | 104.66 | 109.95 | 110.58 | 111.12 | 111.66 | 112.47 |
| | | | | Open Line GREENVAL | 230.00-SKYRANCH | 230.00 #1 | 218 | 280 | 280 | MVA | 103.7 | 107.91 | 108.42 | 108.81 | 109.24 | 109.92 |
| | | | | Open Line GREENVAL | 230.00-ST.VRAIN | 230.00 #1 | 219 | 280 | 280 | MVA | 103.34 | 107.69 | 108.21 | 108.63 | 109.07 | 109.76 |
| | | | | Open Line GREENVAL | 230.00-IMBODEN | 230.00 #1 | 220 | 280 | 280 | MVA | 103.95 | 108.16 | 108.67 | 109.07 | 109.5 | 110.18 |
| | | | | Open Line GREENVAL | 230.00-SPRUCE | 230.00 #1 | 221 | 280 | 280 | MVA | 104.44 | 108.65 | 109.17 | 109.58 | 110.02 | 110.71 |
| | | | | Open Line CHATFLD | 230.00-WATERTON | 230.00 #1 | 226 | 280 | 280 | MVA | 103.33 | 107.42 | 107.9 | 108.26 | 108.66 | 109.29 |
| | | | | Open Line CHEROKEE | 230.00-GLENN PS | 230.00 #1 | 227 | 280 | 280 | MVA | 107.3 | 112.09 | 112.73 | 113.27 | 113.82 | 114.64 |
| | | | | Open Line CHEROKEE | 230.00-LACOMBE | 230.00 #1 | 228 | 280 | 280 | MVA | 103.66 | 107.94 | 108.47 | 108.88 | 109.33 | 110.02 |
| | | | | Open Line CHEROKEE | 230.00-RIDGE | 230.00 #1 | 229 | 280 | 280 | MVA | 103.05 | 107.26 | 107.77 | 108.16 | 108.6 | 109.25 |
| | | | | Open Line CHEROKEE | 230.00-RIVERDAL | 230.00 #1 | 230 | 280 | 280 | MVA | 107.33 | 111.94 | 112.54 | 113.03 | 113.54 | 114.32 |
| | | | | Open Line CHEROKEE | 230.00-SILVSADL | 230.00 #1 | 231 | 280 | 280 | MVA | 105.39 | 109.53 | 110.05 | 110.45 | 110.89 | 111.57 |
| | | | | Open Line DANIELPK | 230.00-SANTEFE | 230.00 #1 | 239 | 280 | 280 | MVA | 103.45 | 107.59 | 108.07 | 108.43 | 108.84 | 109.48 |
| | | | | Open Line DENVTM | 230.00-LACOMBE | 230.00 #1 | 243 | 280 | 280 | MVA | 103.28 | 107.56 | 108.09 | 108.5 | 108.95 | 109.63 |
| | | | | Open Line FTLUPTON | 230.00-JLGREEN | 230.00 #1 | 251 | 280 | 280 | MVA | 115.61 | 120.4 | 121.06 | 121.63 | 122.18 | 123.02 |
| | | | | Open Line FTLUPTON | 230.00-HENRYLAK | 230.00 #1 | 252 | 280 | 280 | MVA | 111.58 | 116.19 | 116.8 | 117.3 | 117.81 | 118.6 |
| | | | | Open Line GREEN PS | 230.00-WASHINGT | 230.00 #1 | 253 | 280 | 280 | MVA | 110.96 | 115.76 | 116.41 | 116.96 | 117.51 | 118.34 |
| | | | | Open Line GREENWD | 230.00-MONACO12 | 230.00 #1 | 256 | 280 | 280 | MVA | 103.41 | 107.51 | 107.99 | 108.34 | 108.75 | 109.38 |
| | | | | Open Line JEWELL2 | 230.00-TOLGATE | 230.00 #1 | 260 | 280 | 280 | MVA | 103.01 | 107.18 | 107.67 | 108.05 | 108.47 | 109.13 |
| | | | | Open Line LEETSDAL | 230.00-MONACO12 | 230.00 #1 | 263 | 280 | 280 | MVA | 103.27 | 107.36 | 107.84 | 108.2 | 108.6 | 109.24 |
| | | | | Open Line LEGGETT | 230.00-NIWOT | 230.00 #1 | 264 | 280 | 280 | MVA | 105.72 | 110.16 | 110.76 | 111.24 | 111.75 | 112.5 |
| | | | | Open Line LEGGETT | 230.00-PLNENDSS | 230.00 #1 | 265 | 280 | 280 | MVA | 103.89 | 108.34 | 108.93 | 109.42 | 109.93 | 110.67 |
| | | | | Open Line MEADOWHL | 230.00-SMOKYHIL | 230.00 #1 | 270 | 280 | 280 | MVA | 103.02 | 107.23 | 107.73 | 108.11 | 108.54 | 109.2 |
| | | | | Open Line NIWOT | 230.00-ISABELLE | 230.00 #1 | 272 | 280 | 280 | MVA | 108.16 | 112.57 | 113.17 | 113.66 | 114.17 | 114.92 |
| | | | | Open Line QUINCY | 230.00-SMOKYHIL | 230.00 #1 | 274 | 280 | 280 | MVA | 103.24 | 107.39 | 107.88 | 108.26 | 108.67 | 109.33 |
| | | | | Open Line QUINCY | 230.00-BRICKCTR | 230.00 #1 | 275 | 280 | 280 | MVA | 103.26 | 107.4 | 107.9 | 108.27 | 108.69 | 109.35 |
| | | | | Open Line RIVERDAL | 230.00-HENRYLAK | 230.00 #1 | 276 | 280 | 280 | MVA | 110.18 | 114.79 | 115.39 | 115.89 | 116.41 | 117.19 |
| Open Line SKYRANCH | 230.00-SPRUCE | 230.00 #1 | 277 | 280 | 280 | MVA | 103.56 | 107.77 | 108.28 | 108.67 | 109.1 | 109.77 | | | | |
| Open Line SKYRANCT | 230.00-IMBODEN | 230.00 #1 | 278 | 280 | 280 | MVA | 103.9 | 108.11 | 108.62 | 109.02 | 109.45 | 110.13 | | | | |
| Open Line SKYRANCT | 230.00-SPRUCE | 230.00 #1 | 279 | 280 | 280 | MVA | 103.9 | 108.11 | 108.63 | 109.02 | 109.46 | 110.13 | | | | |
| Open Line SMOKYHIL | 230.00-SPRUCE | 230.00 #2 | 280 | 280 | 280 | MVA | 103.68 | 107.9 | 108.41 | 108.8 | 109.23 | 109.91 | | | | |
| Open Line SMOKYHIL | 230.00-POWHATON | 230.00 #1 | 281 | 280 | 280 | MVA | 103.66 | 107.88 | 108.39 | 108.78 | 109.21 | 109.89 | | | | |
| Open Line ST.VRAIN | 230.00-ISABELLE | 230.00 #1 | 285 | 280 | 280 | MVA | 108.36 | 112.77 | 113.37 | 113.86 | 114.37 | 115.12 | | | | |
| Open Line ST.VRAIN | 230.00-SPNDLE | 230.00 #1 | 286 | 280 | 280 | MVA | 107.55 | 112.27 | 112.95 | 113.5 | 114.09 | 114.95 | | | | |

| | | | | |
|--------------|----------------------------|---|-----------|----------------------|
| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project |
| ZONE | (All) | At least a 3% decrease from previous case | 11b30c7 | 3000 MW gen 70% Comp |
| TYPE | (All) | Change of less than ± 3% from previous case | 11b35c7 | 3500 MW gen 70% Comp |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 11b40c7 | 4000 MW gen 70% Comp |
| | | | 11b45c7 | 4500 MW gen 70% Comp |
| | | | 11b50c7 | 5000 MW gen 70% Comp |

| E PCT | | BASECASE | | | | | | pre10hs17.sav | 11b30c7.sav | 11b35c7.sav | 11b40c7.sav | 11b45c7.sav | 11b50c7.sav |
|---|---|--|--------|--------|--------|--------|--------|---------------|-------------|-------------|-------------|-------------|-------------|
| OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | | | | | | | | |
| FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 280 | 280 | MVA | 117.58 | 122.22 | 122.94 | 123.52 | 124.13 | 125.03 | | |
| | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 280 | 280 | MVA | 114.9 | 119.7 | 120.36 | 120.92 | 121.47 | 122.31 | | |
| | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 280 | 280 | MVA | 103.69 | 107.91 | 108.42 | 108.81 | 109.25 | 109.92 | | |
| | Open Line SPRUCE 230.00-CHAMBERS 230.00 #1 | 300 | 280 | 280 | MVA | 102.92 | 107.11 | 107.61 | 107.98 | 108.4 | 109.06 | | |
| | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 280 | 280 | MVA | 105.85 | 109.99 | 110.51 | 110.92 | 111.35 | 112.04 | | |
| | Open Line FULLER 230.00-DANIELPK 230.00 #1 | 307 | 280 | 280 | MVA | 102.93 | | | | | | | |
| | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 280 | 280 | MVA | 103.58 | 107.73 | 108.19 | 108.53 | 108.91 | 109.53 | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 280 | 280 | MVA | 105.55 | 109.61 | 110.17 | 110.6 | 111.07 | 111.79 | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 280 | 280 | MVA | 105.55 | 109.61 | 110.17 | 110.6 | 111.07 | 111.79 | | |
| | Open Xfmr ARAPAHOE 115.00/ARAPAHOE 230.00 #T5 | 311 | 280 | 280 | MVA | 103.65 | 107.84 | 108.33 | 108.7 | 109.11 | 109.76 | | |
| | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A1 | 312 | 280 | 280 | MVA | 104.29 | 108.51 | 109 | 109.38 | 109.79 | 110.47 | | |
| | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A2 | 313 | 280 | 280 | MVA | 104.28 | 108.5 | 108.99 | 109.37 | 109.78 | 110.46 | | |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 280 | 280 | MVA | 103.11 | 107.31 | 107.8 | 108.18 | 108.59 | 109.25 | | |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 280 | 280 | MVA | 103.11 | 107.31 | 107.8 | 108.18 | 108.59 | 109.25 | | |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 280 | 280 | MVA | 103.11 | 107.31 | 107.8 | 108.18 | 108.59 | 109.25 | | |
| | Open Xfmr DENVTM 115.00/DENVTM 230.00 #T2 | 322 | 280 | 280 | MVA | 103.7 | 107.89 | 108.37 | 108.73 | 109.14 | 109.8 | | |
| | Open Xfmr LEETSDAL 115.00/LEETSDAL 230.00 #T4 | 324 | 280 | 280 | MVA | 104.34 | 108.49 | 108.96 | 109.32 | 109.72 | 110.37 | | |
| | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 280 | 280 | MVA | 103.43 | 107.58 | 108.04 | 108.37 | 108.76 | 109.38 | | |
| | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #1 | 329 | 280 | 280 | MVA | 103 | 107.19 | 107.69 | 108.08 | 108.5 | 109.17 | | |
| | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #3 | 330 | 280 | 280 | MVA | 103 | 107.19 | 107.69 | 108.08 | 108.5 | 109.17 | | |
| | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #2 | 331 | 280 | 280 | MVA | 103 | 107.19 | 107.69 | 108.08 | 108.5 | 109.17 | | |
| | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T1 | 332 | 280 | 280 | MVA | 103.24 | 107.45 | 107.94 | 108.3 | 108.72 | 109.37 | | |
| | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T2 | 333 | 280 | 280 | MVA | 103.25 | 107.46 | 107.95 | 108.31 | 108.73 | 109.38 | | |
| | Open Xfmr SODALAKE 115.00/SODALAKE 230.00 #T2 | 336 | 280 | 280 | MVA | 103.17 | 107.37 | 107.86 | 108.23 | 108.65 | 109.3 | | |
| | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T1 | 338 | 280 | 280 | MVA | 105.81 | 110.08 | 110.58 | 110.93 | 111.36 | 112.04 | | |
| | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T2 | 339 | 280 | 280 | MVA | 105.81 | 110.08 | 110.58 | 110.93 | 111.36 | 112.04 | | |
| | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 280 | 280 | MVA | 103.52 | 107.67 | 108.13 | 108.46 | 108.85 | 109.45 | | |
| | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 280 | 280 | MVA | 105.92 | 110.09 | 110.59 | 110.98 | 111.39 | 112.07 | | |
| | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #1 | 349 | 280 | 280 | MVA | 102.92 | | | | | | | |
| | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #2 | 350 | 280 | 280 | MVA | 102.92 | | | | | | | |
| | Open Xfmr BRICKCTR 115.00/BRICKCTR 230.00 #T1 | 351 | 280 | 280 | MVA | 102.96 | 107.14 | 107.63 | 108.01 | 108.43 | 109.08 | | |
| | Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 280 | 280 | MVA | 103.01 | 107.2 | 107.69 | 108.07 | 108.49 | 109.15 | | |
| | Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 280 | 280 | MVA | | 107.11 | 107.61 | 108 | 108.42 | 109.08 | | |
| | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 280 | 280 | MVA | | 109.41 | 110.38 | 111.17 | 112.05 | 113.07 | | |
| | Open Line B.SANDY 500.00-BOONE 500.00 #1 | 377 | 280 | 280 | MVA | | 108.43 | 109.19 | 109.85 | 110.56 | 111.51 | | |
| | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 280 | 280 | MVA | | | | | 108.42 | 109.25 | | |
| | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 280 | 280 | MVA | | 107.74 | 108.32 | 108.76 | 109.1 | 109.55 | | |
| | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 280 | 280 | MVA | | 107.62 | 108.23 | 108.75 | 109.28 | 109.97 | | |
| | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 280 | 280 | MVA | | 107.55 | 108.16 | 108.67 | 109.2 | 109.99 | | |
| | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 280 | 280 | MVA | | 107.81 | 108.52 | 109.17 | 109.84 | | | |
| | Open Line FT.CRAIG 500.00-LUNA 500.00 #1 | 396 | 280 | 280 | MVA | | | | | | 109.11 | | |
| | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 280 | 280 | MVA | 103.06 | | | | | | | |
| | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 280 | 280 | MVA | | | | | | 109.07 | | |
| | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 280 | 280 | MVA | | | | | | 109.12 | | |
| | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 280 | 280 | MVA | | | | | | 109.07 | | |
| | Open Line SODALAKE 230.00-CHATFLD 230.00 #1 | 209 | 280 | 280 | MVA | 102.91 | | | | | | | |
| | GLADSTON 115.00-SPRINGER 115.00 #1 1 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 599.94 | 599.94 | Amps | | | | | | 108.58 | |
| | | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 599.94 | 599.94 | Amps | | | 100.77 | 113.75 | 123.12 | 134.53 | |
| | | Open Line B-A 345.00-NORTON 345.00 #1 | 85 | 599.94 | 599.94 | Amps | | | | 103.52 | 110.71 | 116.44 | |
| Open Line SAN_JUAN 345.00-RIOPUERCO 345.00 #1 | | 113 | 599.94 | 599.94 | Amps | | | | | 102.53 | 110.53 | | |
| Open Line CF&FURN 230.00-COMANCHE 230.00 #1 | | 145 | 599.94 | 599.94 | Amps | | | | | 101.92 | 109.42 | | |
| Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | | 148 | 599.94 | 599.94 | Amps | | | | | 105.66 | 112.47 | | |
| Open Line FOURCORN 345.00-WESTMESA 345.00 #1 | | 357 | 599.94 | 599.94 | Amps | | | | | | 109.01 | | |
| Open Line SAN_JUAN 345.00-OJO 345.00 #1 | | 358 | 599.94 | 599.94 | Amps | | | 107.04 | 113.94 | 122.01 | 126.91 | 128.77 | |
| Open Line FT.CRAIG 500.00-LUNA 500.00 #1 | | 396 | 599.94 | 599.94 | Amps | | | | | 108.23 | 117.27 | 130.9 | |
| Open Line LUNA 500.00-WINCHSTR 500.00 #1 | | 397 | 599.94 | 599.94 | Amps | | | | | 104.76 | 113.02 | 124.53 | |
| Open Line WINCHSTR 500.00-PINAL_S 500.00 #1 | | 398 | 599.94 | 599.94 | Amps | | | | | | 103.47 | 111.17 | |
| Open Line SNTAROSA 500.00-PINAL_W 500.00 #1 | | 26 | 599.94 | 599.94 | Amps | | | | | | 100.97 | 108.26 | |
| Open Line SPRINGR 345.00-CORONADO 345.00 #1 | | 32 | 599.94 | 599.94 | Amps | | | | | | 102.08 | 109.42 | |
| Open Line OJO 345.00-TAOS 345.00 #1 | | 92 | 599.94 | 599.94 | Amps | | | | 101.26 | 106.98 | 110.98 | | |
| Open Line WESTMESA 345.00-SANDIA 345.00 #1 | | 95 | 599.94 | 599.94 | Amps | | | | | | 102.96 | 108.64 | |
| Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | | 186 | 599.94 | 599.94 | Amps | | | | | | 102.96 | 111.03 | |
| Open Line FT.CRAIG 345.00-WESTMESA 345.00 #1 | | 368 | 599.94 | 599.94 | Amps | | | | | | 102.14 | 109.77 | |

| AREA | (All) | High Plains Express Contingency | pre10s17 | Pre Project | 3000 MW gen | 70% Comp | | | | | | | |
|---------------------------|-----------------------------|---|-----------|---------------|---------------|-------------|-----------------|---------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| ZONE | (All) | At least a 3% decrease from previous case | 11b30c7 | 3500 MW gen | 70% Comp | 11b35c7 | | | | | | | |
| TYPE | (All) | Change of less than ± 3% from previous case | 11b40c7 | 4000 MW gen | 70% Comp | 11b45c7 | | | | | | | |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 11b50c7 | 4500 MW gen | 70% Comp | 5000 MW gen | | | | | | | |
| E PCT | | | | | | | | | | | | | |
| OVERLOADED ELEMENT | | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | pre10s17.sav | 11b30c7.sav | 11b35c7.sav | 11b40c7.sav | 11b45c7.sav | 11b50c7.sav |
| GLADSTON | 115.00-SPRINGER 115.00 #1 1 | Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | 599.94 | 599.94 | Amps | | | | | | 107.8 | 116.67 |
| | | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 599.94 | 599.94 | Amps | | | | | | 105.27 | 112.93 |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 599.94 | 599.94 | Amps | | | | | 110.7 | 120.53 | 132.52 |
| | | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 599.94 | 599.94 | Amps | | | | 104.04 | 112.67 | 123.42 | |
| | | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 599.94 | 599.94 | Amps | | | | 106.3 | 115.9 | 130.76 | |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 599.94 | 599.94 | Amps | | | | 110.7 | 120.53 | 132.52 | |
| | | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 599.94 | 599.94 | Amps | | | | 104.04 | 112.67 | 123.42 | |
| | | Open Xfmr WINCHSTR 500.00/WINCHSTR 345.00 #1 | 401 | 599.94 | 599.94 | Amps | | | | | | 101.62 | 109.03 |
| | | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 599.94 | 599.94 | Amps | | | | | | 105.79 | 112.6 |
| | | Open Line WINCHSTR 345.00-VAIL 345.00 #1 | 37 | 599.94 | 599.94 | Amps | | | | | | 102.35 | 109.83 |
| | | Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | 599.94 | 599.94 | Amps | | | | | | | 108.59 |
| | | Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | 599.94 | 599.94 | Amps | | | | | | 101.56 | 109.34 |
| | | Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | 599.94 | 599.94 | Amps | | | | | | 101.57 | 109.37 |
| | | Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | 599.94 | 599.94 | Amps | | | | | | 101.3 | 109 |
| | | Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | 599.94 | 599.94 | Amps | | | | | | 101.21 | 108.81 |
| | | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 599.94 | 599.94 | Amps | | | | 100.46 | 108.57 | 118.12 | |
| | | Open Line SPRINGR 500.00-SES 500.00 #1 | 383 | 599.94 | 599.94 | Amps | | | | | | 104.91 | 113.29 |
| | | Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 599.94 | 599.94 | Amps | | | | | | | 109 |
| | | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 599.94 | 599.94 | Amps | | | | 100.46 | 108.57 | 118.12 | |
| | | Open Line DAVEJOHN 230.00-DIFICULT 230.00 #1 | 131 | 599.94 | 599.94 | Amps | | | | | | 102.25 | 110.41 |
| GLADSTON | 500.00-GUADLUPE 500.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 3464.1 | 3810.51 | Amps | | | | 100.91 | 112.33 | 124.92 | |
| GLADSTON | 500.00-GUADLUPE 500.00 #1 2 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 3464.1 | 3810.51 | Amps | | | | 100.91 | 112.33 | 124.92 | |
| GLADSTON | 500.00-GUADLUPE 500.00 #1 3 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 3464.1 | 3810.51 | Amps | | | | 100.91 | 112.33 | 124.92 | |
| GLADSTON | 500.00-GUADLUPE 500.00 #2 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 3464.1 | 3810.51 | Amps | | | | 100.91 | 112.33 | 124.92 | |
| GLADSTON | 500.00-GUADLUPE 500.00 #2 2 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 3464.1 | 3810.51 | Amps | | | | 100.91 | 112.33 | 124.92 | |
| GLADSTON | 500.00-GUADLUPE 500.00 #2 3 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 3464.1 | 3810.51 | Amps | | | | 100.91 | 112.33 | 124.92 | |
| GLADSTON | 500.00-LAMAR CO 500.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 3464.1 | 3810.51 | Amps | | | | | | | 124.02 |
| GLADSTON | 500.00-LAMAR CO 500.00 #1 2 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 3464.1 | 3810.51 | Amps | | | | | | | 124.02 |
| GLADSTON | 500.00-LAMAR CO 500.00 #1 3 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 3464.1 | 3810.51 | Amps | | | | | | | 124.02 |
| GLENCANY | 230.00-GLENCANY 345.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 350 | 350 | MVA | | | | | | | 100.88 |
| GLENCANY | 230.00-GLENCANY 345.00 #2 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 350 | 350 | MVA | | | | | | | 100.88 |
| GLENCANY | 345.00-FLAGSTAF 345.00 #1 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1999.97 | 1999.97 | Amps | 103.13 | 107.41 | 110.11 | 113.01 | 115.02 | 118.22 | |
| GLENCANY | 345.00-FLAGSTAF 345.00 #1 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1840.83 | 2024.91 | Amps | 101.86 | 106.09 | 108.76 | 111.62 | 113.6 | 116.77 | |
| GLENCANY | 345.00-FLAGSTAF 345.00 #2 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1250.09 | 1680.17 | Amps | 122.53 | 127.63 | 130.85 | 134.31 | 136.69 | 140.51 | |
| GLENCANY | 345.00-FLAGSTAF 345.00 #2 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1840.83 | 2024.91 | Amps | 101.67 | 105.9 | 108.57 | 111.44 | 113.42 | 116.58 | |
| GR | 115.00-VISTA # 115.00 #1 1 | Open Line CALIENTE 345.00-NC1 345.00 #1 | 74 | 590.91 | 800.26 | Amps | 149.06 | 151.41 | 148.21 | 149.12 | 149.67 | 150.8 | |
| GREEN-AE | 345.00-GREEN-AE 230.00 #1 0 | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 150 | 193 | MVA | 155.75 | 146.81 | 147.74 | 148.67 | 146.05 | 147.62 | |
| | | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 150 | 193 | MVA | 156.07 | 147.16 | 148.07 | 148.99 | 146.26 | 147.81 | |
| | | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 150 | 193 | MVA | 108.88 | 108.51 | 109.02 | 109.61 | 104.97 | 105.73 | |
| | | Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 150 | 193 | MVA | 132.42 | 123.32 | 124.31 | 125.3 | 124.24 | 125.93 | |
| | | Open Line RED TAIL 230.00-DOSCONDO 230.00 #1 | 55 | 150 | 193 | MVA | | | 100.01 | 100.46 | | | |
| | | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 150 | 193 | MVA | 103.74 | | | | | | |
| GUADLUPE | 345.00-ARGONNE4 138.00 #1 0 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 60 | 80 | MVA | | | | | | | 112.9 |
| GUADLUPE | 500.00-CORONA 500.00 #1 1 | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 3464.1 | 3810.51 | Amps | | | | | 106.91 | 118.89 | |
| GUADLUPE | 500.00-CORONA 500.00 #1 2 | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 3464.1 | 3810.51 | Amps | | | | | 106.91 | 118.89 | |
| GUADLUPE | 500.00-CORONA 500.00 #1 3 | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 3464.1 | 3810.51 | Amps | | | | | 106.91 | 118.89 | |
| GUADLUPE | 500.00-CORONA 500.00 #2 1 | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 3464.1 | 3810.51 | Amps | | | | | 106.91 | 118.89 | |
| GUADLUPE | 500.00-CORONA 500.00 #2 2 | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 3464.1 | 3810.51 | Amps | | | | | 106.91 | 118.89 | |
| GUADLUPE | 500.00-CORONA 500.00 #2 3 | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 3464.1 | 3810.51 | Amps | | | | | 106.91 | 118.89 | |
| JLGREEN | 230.00-FTLUPTON 230.00 #1 1 | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 1242.56 | 1242.56 | Amps | | | | | | | 100.42 |
| | | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 1242.56 | 1242.56 | Amps | | | | | 100.54 | 101.55 | 102.89 |
| | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 1242.56 | 1242.56 | Amps | | | | | 100.16 | 101.33 | 102.81 |
| | | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 1242.56 | 1242.56 | Amps | | | | | | | 100.23 |
| | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 1242.56 | 1242.56 | Amps | 100 | 105.18 | 106.55 | 108.14 | 109.31 | 110.82 | |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 1242.56 | 1242.56 | Amps | | 102.54 | 103.91 | 105.49 | 106.66 | 108.16 | |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1242.56 | 1242.56 | Amps | | | | | 100.71 | 101.84 | 103.34 |
| | | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 1242.56 | 1242.56 | Amps | | | | | 100.31 | 101.64 | |
| | | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 1242.56 | 1242.56 | Amps | | | | | 101.13 | 102.15 | 103.49 |
| LAJUNTAW | 69.00-PHILPS TP 69.00 #1 1 | Open Xfmr LAMAR CO 230.00/LAMAR CO 115.00 #1 | 356 | 200.82 | 200.82 | Amps | | | | 143.24 | | | |
| LAJUNTAW | 115.00-BOONE 115.00 #1 1 | Open Xfmr LAMAR CO 230.00/LAMAR CO 115.00 #1 | 356 | 200.82 | 200.82 | Amps | | | | 127.11 | | | |
| LAJUNTAW | 115.00-LAJUNTAW 69.00 #1 0 | Open Xfmr LAMAR CO 230.00/LAMAR CO 115.00 #1 | 356 | 25 | 25 | MVA | | | | 185.03 | | | |
| LAMAR CO | 230.00-LAMAR CO 115.00 #1 0 | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 100 | 100 | MVA | 114.22 | | | | | | |
| | | Open Line BOONE 230.00-LAMAR CO 230.00 #1 | 143 | 100 | 100 | MVA | 123.9 | | | | | | |

| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project | | | | | | | |
|--------------------------------------|---|---|-----------------|----------------------|-------------|----------------------|--------------------|--------------------|--------------------|--------------------|--------------------|
| ZONE | (All) | At least a 3% decrease from previous case | 11b30c7 | 3000 MW gen 70% Comp | | | | | | | |
| TYPE | (All) | Change of less than ± 3% from previous case | 11b35c7 | 3500 MW gen 70% Comp | | | | | | | |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 11b40c7 | 4000 MW gen 70% Comp | | | | | | | |
| | | | 11b45c7 | 4500 MW gen 70% Comp | | | | | | | |
| | | | 11b50c7 | 5000 MW gen 70% Comp | | | | | | | |
| E PCT | | | BASECASE | | | | | | | | |
| OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 11b30c7.sav | 11b35c7.sav | 11b40c7.sav | 11b45c7.sav | 11b50c7.sav |
| LAMAR CO 230.00-LAMAR CO 115.00 #1 0 | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 100 | 100 | MVA | 113.02 | | | | | |
| | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 100 | 100 | MVA | 113.28 | | | | | |
| | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 100 | 100 | MVA | 113.99 | | | | | |
| | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 100 | 100 | MVA | 130.65 | | | | | |
| | Open Line EGYCNR 500.00-BOONE 500.00 #1 | 202 | 100 | 100 | MVA | 148.34 | | | | | |
| | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 100 | 100 | MVA | 129.74 | | | | | |
| | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 100 | 100 | MVA | 115.66 | | | | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 100 | 100 | MVA | 112 | | | | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 100 | 100 | MVA | 112 | | | | | |
| | Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A1 | 314 | 100 | 100 | MVA | 112.89 | | | | | |
| | Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A2 | 315 | 100 | 100 | MVA | 112.92 | | | | | |
| | Open Xfmr BOONE 115.00/BOONE 230.00 #1 | 355 | 100 | 100 | MVA | 132.53 | 109.66 | 110.03 | 110.45 | 110.27 | 103.93 |
| | Open Line B.SANDY 500.00-BOONE 500.00 #1 | 377 | 100 | 100 | MVA | | | | | 100.44 | |
| | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 100 | 100 | MVA | | 114.11 | 117.91 | 122.15 | 125.48 | |
| | Open Xfmr LAMAR CO 500.00/LAMAR CO 230.00 #1 | 403 | 100 | 100 | MVA | | 102.37 | 103.81 | 105.23 | 105.47 | 102 |
| | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 100 | 100 | MVA | 112.11 | | | | | |
| | Open Line BURLNGTN 500.00-BURLSC1 500.00 #1 | 199 | 100 | 100 | MVA | 114.06 | | | | | |
| | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 100 | 100 | MVA | 117.32 | | | | | |
| | Open Line EGYCNR 500.00-BURLSC2 500.00 #1 | 203 | 100 | 100 | MVA | 118.03 | | | | | |
| LAMAR CO 500.00-GLADSTON 500.00 #1 1 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 3464.1 | 3810.51 | Amps | | | | 100.23 | 111.21 | |
| LAMAR CO 500.00-GLADSTON 500.00 #1 2 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 3464.1 | 3810.51 | Amps | | | | 100.23 | 111.21 | |
| LAMAR CO 500.00-GLADSTON 500.00 #1 3 | Open Line BOONE 500.00-GLADSTON 500.00 #1 | 378 | 3464.1 | 3810.51 | Amps | | | | 100.23 | 111.21 | |
| LAR.RIVR 345.00-AULT 345.00 #1 1 | Open Line DAVEJOHN 500.00-PAWNEE 500.00 #1 | 375 | 1599.85 | 1599.85 | Amps | | | | | | 102.79 |
| LAR.RIVR 500.00-WRAY 500.00 #1 1 | Open Line DAVEJOHN 500.00-PAWNEE 500.00 #1 | 375 | 3464.1 | 3810.51 | Amps | | | | | | 102.27 |
| LAR.RIVR 500.00-WRAY 500.00 #1 2 | Open Line DAVEJOHN 500.00-PAWNEE 500.00 #1 | 375 | 3464.1 | 3810.51 | Amps | | | | | | 102.27 |
| LAR.RIVR 500.00-WRAY 500.00 #1 3 | Open Line DAVEJOHN 500.00-PAWNEE 500.00 #1 | 375 | 3464.1 | 3810.51 | Amps | | | | | | 102.27 |
| LUNA 345.00-LUNA 115.00 #1 0 | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 224 | 224 | MVA | 103.32 | | | | | |
| MIDWAYBR 230.00-RD_NIXON 230.00 #1 1 | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 1209.93 | 1209.93 | Amps | 103.41 | | | | | |
| | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 1209.93 | 1209.93 | Amps | 101.85 | | | | | |
| | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 1209.93 | 1209.93 | Amps | | | | | | 116.66 |
| | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 1209.93 | 1209.93 | Amps | 110.61 | | | | | |
| | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 1209.93 | 1209.93 | Amps | 105.66 | | | | | |
| | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 1209.93 | 1209.93 | Amps | 107.21 | | | | | |
| | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 1209.93 | 1209.93 | Amps | 103.44 | | | | | |
| | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 1209.93 | 1209.93 | Amps | 102.82 | | | | | |
| | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 1209.93 | 1209.93 | Amps | 100.31 | | | | | |
| | Open Line EGYCNR 500.00-BURLSC2 500.00 #1 | 203 | 1209.93 | 1209.93 | Amps | 101.06 | | | | | |
| MURPHY 230.00-SMOKYHIL 230.00 #1 1 | Open Line DANIELPK 230.00-SURREYRG 230.00 #1 | 235 | 853.47 | 853.47 | Amps | | | | | | 100.07 |
| NEWMAN 115.00-BIGGS 115.00 #1 1 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 590.91 | 800.26 | Amps | | | | | | 103.37 |
| NEWMAN 115.00-NEWMAN_B 345.00 #1 0 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 101.84 | 102.77 | 105.8 | 107.6 | 106.66 | 113.16 |
| NEWMAN_B 345.00-NEWMAN 345.00 #1 0 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 100.98 | 101.93 | 104.67 | 106.19 | 105.23 | 111.05 |
| OJO 345.00-OJO 115.00 #1 0 | Open Line FOURCORN 345.00-WESTMESA 345.00 #1 | 357 | 180 | 180 | MVA | 103.46 | | | | | |
| | Open Line OJO 345.00-TAOS 345.00 #1 | 92 | 180 | 180 | MVA | 107.43 | | | | | |
| P.VALLEY 115.00-TODD CRE 115.00 #1 1 | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 676.75 | 676.75 | Amps | 105.04 | 104.62 | 104.66 | 104.34 | 104.35 | 104.28 |
| PINPK 230.00-PNPKAPS 230.00 #1 1 | Open Line RACEWAY 500.00-PNPKAPS 500.00 #1 | 109 | 1691.89 | 1998.13 | Amps | | 111.44 | | | | |
| PNPKAPS 230.00-PINPK 230.00 #1 1 | Open Line RACEWAY 500.00-PNPKAPS 500.00 #1 | 109 | 1691.89 | 1998.13 | Amps | 113.5 | | 112.13 | 112.93 | 112 | 113.24 |
| RD_NIXON 230.00-MIDWAYBR 230.00 #1 1 | Open Line MIDWAYPS 230.00-MIDWAYBR 230.00 #1 | 156 | 1209.93 | 1209.93 | Amps | 104.57 | | | | | |
| | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 1209.93 | 1209.93 | Amps | 135.24 | 120.71 | 119.82 | 118.96 | 117.79 | |
| | Open Line TARRYALL 230.00-HARTSELT 230.00 #1 | 161 | 1209.93 | 1209.93 | Amps | 100.11 | | | | | |
| | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 1209.93 | 1209.93 | Amps | 100.6 | | | | | |
| | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1209.93 | 1209.93 | Amps | 100.04 | | | | | |
| | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 1209.93 | 1209.93 | Amps | 108.17 | | | | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 1209.93 | 1209.93 | Amps | 100.33 | | | | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 1209.93 | 1209.93 | Amps | 100.33 | | | | | |
| | Open Xfmr DANIELPK 115.00/DANIELPK 230.00 #T1 | 318 | 1209.93 | 1209.93 | Amps | 100.68 | | | | | |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 1209.93 | 1209.93 | Amps | 100.11 | | | | | |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 1209.93 | 1209.93 | Amps | 100.11 | | | | | |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 1209.93 | 1209.93 | Amps | 100.11 | | | | | |
| | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 1209.93 | 1209.93 | Amps | 107.89 | | | | | |
| | Open Xfmr TARRYALL 115.00/TARRYALL 230.00 #T1 | 337 | 1209.93 | 1209.93 | Amps | 100.76 | | | | | |
| | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 1209.93 | 1209.93 | Amps | 107.93 | | | | | |
| | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 1209.93 | 1209.93 | Amps | 100.19 | | | | | |
| | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 1209.93 | 1209.93 | Amps | 100.27 | | | | | |

| AREA | | (All) | High Plains Express Contingency | | | | | | pre10hs17 | Pre Project | | | | |
|--------------------|-----------------|----------------------------|---|-----------------|------------|------|---------------|-------------|-------------|-------------|-------------|-------------|--|--|
| ZONE | | (All) | At least a 3% decrease from previous case | | | | | | 11b30c7 | 3000 MW gen | 70% Comp | | | |
| TYPE | | (All) | Change of less than ± 3% from previous case | | | | | | 11b35c7 | 3500 MW gen | 70% Comp | | | |
| NOTES | | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | | | | | | 11b40c7 | 4000 MW gen | 70% Comp | | | |
| | | | | | | | | | 11b45c7 | 4500 MW gen | 70% Comp | | | |
| | | | | | | | | | 11b50c7 | 5000 MW gen | 70% Comp | | | |
| E PCT | | | | | | | | BASECASE | | | | | | |
| OVERLOADED ELEMENT | | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 11b30c7.sav | 11b35c7.sav | 11b40c7.sav | 11b45c7.sav | 11b50c7.sav | | |
| RD_NIXON | 230.00-MIDWAYBR | 230.00 #1 1 | Open Line BURLNGTN | 500.00-BURLSC2 | 500.00 #1 | 201 | 1209.93 | 1209.93 | Amps | 100.77 | | | | |
| RIO GRAN | 115.00-MESA | # 115.00 #1 1 | Open Line NEWMAN | 345.00-AFTON | 345.00 #1 | 80 | 720.93 | 982 | Amps | 100.65 | | | | |
| ROCKISLD | 115.00-KELKER W | 115.00 #1 1 | Open Line MIDWAYPS | 230.00-FULLER | 230.00 #1 | 157 | 798.25 | 798.25 | Amps | 100.84 | | | | |
| ROGERS | 230.00-ROGSWAPA | 230.00 #1 1 | Open Line CORONADO | 500.00-SILVERKG | 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 106.47 | | | | |
| ROGERS | 230.00-ROGSWAPA | 230.00 #2 1 | Open Line CORONADO | 500.00-SILVERKG | 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 106.47 | | | | |
| ROGSWAPA | 230.00-ROGERS | 230.00 #1 1 | Open Line CORONADO | 500.00-SILVERKG | 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 100.37 | 106.42 | 107.75 | | |
| | | | Open Line JOJOBA | 500.00-KYRENE | 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | 110.19 | 103.32 | 101.89 | | |
| | | | Open Line HASSYAMP | 500.00-JOJOBA | 500.00 #1 | 28 | 1001.58 | 1001.58 | Amps | 101.71 | 101.19 | | | |
| ROGSWAPA | 230.00-ROGERS | 230.00 #2 1 | Open Line CORONADO | 500.00-SILVERKG | 500.00 #1 | 23 | 1001.58 | 1001.58 | Amps | 100.37 | 106.42 | 107.75 | | |
| | | | Open Line JOJOBA | 500.00-KYRENE | 500.00 #1 | 27 | 1001.58 | 1001.58 | Amps | 110.19 | 103.32 | 101.89 | | |
| | | | Open Line HASSYAMP | 500.00-JOJOBA | 500.00 #1 | 28 | 1001.58 | 1001.58 | Amps | 101.71 | 101.19 | | | |
| SHIPROCK | 230.00-SHIPROCK | 345.00 #1 0 | Open Line FOURCORN | 500.00-MOENKOPI | 500.00 #1 | 2 | 300 | 300 | MVA | 100.96 | 101.26 | 101.83 | | |
| | | | Open Line CORONADO | 500.00-SILVERKG | 500.00 #1 | 23 | 300 | 300 | MVA | 100.07 | 100.53 | 102.24 | | |
| | | | Open Line RME | 500.00-FCW | 500.00 #1 | 71 | 300 | 300 | MVA | 110.01 | 110.89 | 112.14 | | |
| SHIPROCK | 345.00-SHIPROCK | 230.00 #1 0 | Open Line FOURCORN | 500.00-MOENKOPI | 500.00 #1 | 2 | 300 | 300 | MVA | | | 100.53 | | |
| | | | Open Line RME | 500.00-FCW | 500.00 #1 | 71 | 300 | 300 | MVA | | | 112.13 | | |
| SILVSADL | 230.00-REUNION | 230.00 #1 1 | Open Line BUCKLY34 | 230.00-SMOKYHIL | 230.00 #1 | 213 | 818.33 | 818.33 | Amps | | | 100.61 | | |
| | | | Open Line BUCKLY34 | 230.00-TOLGATE | 230.00 #1 | 214 | 818.33 | 818.33 | Amps | | | 100.61 | | |
| | | | Open Line GREENVAL | 230.00-SKYRANCH | 230.00 #1 | 218 | 818.33 | 818.33 | Amps | | | 100.87 | | |
| | | | Open Line GREENVAL | 230.00-IMBODEN | 230.00 #1 | 220 | 818.33 | 818.33 | Amps | 101.12 | | 100.88 | | |
| | | | Open Line GREENVAL | 230.00-SPRUCE | 230.00 #1 | 221 | 818.33 | 818.33 | Amps | 103.75 | 101.83 | 102.65 | | |
| | | | Open Line CHEROKEE | 230.00-GLENN PS | 230.00 #1 | 227 | 818.33 | 818.33 | Amps | 100.96 | 100.84 | 101.92 | | |
| | | | Open Line CHEROKEE | 230.00-RIVERDAL | 230.00 #1 | 230 | 818.33 | 818.33 | Amps | 100.94 | 100.47 | 101.47 | | |
| | | | Open Line FTLUPTON | 230.00-JLGREEN | 230.00 #1 | 251 | 818.33 | 818.33 | Amps | 113.67 | 112.68 | 113.63 | | |
| | | | Open Line FTLUPTON | 230.00-HENRYLAK | 230.00 #1 | 252 | 818.33 | 818.33 | Amps | 107.53 | 106.24 | 107.12 | | |
| | | | Open Line GLENN PS | 230.00-WASHINGT | 230.00 #1 | 253 | 818.33 | 818.33 | Amps | 106.41 | 105.4 | 106.33 | | |
| | | | Open Line NIWOT | 230.00-ISABELLE | 230.00 #1 | 272 | 818.33 | 818.33 | Amps | 106.41 | 105.4 | 106.33 | | |
| | | | Open Line RIVERDAL | 230.00-HENRYLAK | 230.00 #1 | 276 | 818.33 | 818.33 | Amps | 105.35 | 104.05 | 104.92 | | |
| | | | Open Line SKYRANCH | 230.00-SPRUCE | 230.00 #1 | 277 | 818.33 | 818.33 | Amps | | | 105.94 | | |
| | | | Open Line SKYRANCH | 230.00-IMBODEN | 230.00 #1 | 278 | 818.33 | 818.33 | Amps | 100.86 | | 100.62 | | |
| | | | Open Line SKYRANCH | 230.00-SPRUCE | 230.00 #1 | 279 | 818.33 | 818.33 | Amps | 100.87 | | 100.63 | | |
| | | | Open Line SMOKYHIL | 230.00-SPRUCE | 230.00 #2 | 280 | 818.33 | 818.33 | Amps | 101.3 | | 101.14 | | |
| | | | Open Line SMOKYHIL | 230.00-POWHATON | 230.00 #1 | 281 | 818.33 | 818.33 | Amps | 101.18 | | 100.08 | | |
| | | | Open Line ST.VRAIN | 230.00-ISABELLE | 230.00 #1 | 285 | 818.33 | 818.33 | Amps | 100.02 | | 100.14 | | |
| | | | Open Line VALMONT | 230.00-SPNDLE | 230.00 #1 | 293 | 818.33 | 818.33 | Amps | 103.68 | 102.13 | 103.01 | | |
| | | | Open Line WASHINGT | 230.00-JLGREEN | 230.00 #1 | 294 | 818.33 | 818.33 | Amps | 112.44 | 111.45 | 112.4 | | |
| | | | Open Line SPRUCE | 230.00-POWHATON | 230.00 #1 | 299 | 818.33 | 818.33 | Amps | 101.39 | | 100.29 | | |
| | | | Open Xfmr FTLUPTON | 115.00/FTLUPTON | 230.00 #T3 | 323 | 818.33 | 818.33 | Amps | 100.02 | | 100.4 | | |
| | | | Open Xfmr CHAMBERS | 115.00/CHAMBERS | 230.00 #1 | 348 | 818.33 | 818.33 | Amps | 102.26 | 100.17 | 100.88 | | |
| SPKHILT | 230.00-COOLIDGE | 230.00 #1 1 | Open Line FOURCORN | 500.00-MOENKOPI | 500.00 #1 | 2 | 800.76 | 853.47 | Amps | | | 100.31 | | |
| | | | Open Line MOENKOPI | 500.00-YAVAPAI | 500.00 #1 | 3 | 800.76 | 853.47 | Amps | | | 100.4 | | |
| | | | Open Line CORONADO | 500.00-SILVERKG | 500.00 #1 | 23 | 800.76 | 853.47 | Amps | 112.55 | 114.97 | 118.75 | | |
| | | | Open Line JOJOBA | 500.00-KYRENE | 500.00 #1 | 27 | 800.76 | 853.47 | Amps | 106.33 | 108 | 109.79 | | |
| | | | Open Line FLAGSTAF | 345.00-GLENCANY | 345.00 #1 | 57 | 800.76 | 853.47 | Amps | | | 100.44 | | |
| | | | Open Line FLAGSTAF | 345.00-GLENCANY | 345.00 #2 | 58 | 800.76 | 853.47 | Amps | | | 100.43 | | |
| | | | Open Line FLAGSTAF | 345.00-PINPKBRB | 345.00 #1 | 59 | 800.76 | 853.47 | Amps | | | 100.25 | | |
| | | | Open Line FLAGSTAF | 345.00-PINPKBRB | 345.00 #2 | 60 | 800.76 | 853.47 | Amps | | | 100.26 | | |
| | | | Open Line RME | 500.00-FCW | 500.00 #1 | 71 | 800.76 | 853.47 | Amps | | | 101.7 | | |
| | | | Open Line RACEWAY | 500.00-PNPKAPS | 500.00 #r1 | 109 | 800.76 | 853.47 | Amps | 104.45 | 106.02 | 107.57 | | |
| | | | Open Line SNTAROSA | 230.00-DBG | 230.00 #1 | 22 | 800.76 | 853.47 | Amps | 105.28 | 107.37 | 109.41 | | |
| | | | Open Line HASSYAMP | 500.00-JOJOBA | 500.00 #1 | 28 | 800.76 | 853.47 | Amps | 104.85 | 106.5 | 108.19 | | |
| | | | Open Line CHOLLA | 345.00-PNPKAPS | 345.00 #1 | 6 | 800.76 | 853.47 | Amps | | | 101.52 | | |
| | | | Open Line CHOLLA | 345.00-PRECHCYN | 345.00 #1 | 7 | 800.76 | 853.47 | Amps | | | 101.89 | | |
| | | | Open Line BROWNING | 500.00-KYRENE | 500.00 #1 | 25 | 800.76 | 853.47 | Amps | | | 103.49 | | |
| | | | Open Line SNTAROSA | 500.00-PINAL W | 500.00 #1 | 26 | 800.76 | 853.47 | Amps | | | 102.34 | | |
| | | | Open Line SPRINGR | 345.00-CORONADO | 345.00 #1 | 32 | 800.76 | 853.47 | Amps | | | 100.41 | | |
| | | | Open Line KAYENTA | 230.00-SHIPROCK | 230.00 #1 | 62 | 800.76 | 853.47 | Amps | | | 100.48 | | |
| | | | Open Line KAYENTA | 230.00-LNGHOUSE | 230.00 #1 | 63 | 800.76 | 853.47 | Amps | | | 100.13 | | |
| VERDE S | 230.00-COCONINO | 230.00 #1 1 | Open Line CHOLLA | 230.00-LEUPP | 230.00 #1 | 12 | 529.66 | 529.66 | Amps | 121.99 | 122.8 | 123.17 | | |
| WALSENBG | 230.00-WALSENBG | 115.00 #1 0 | Open Xfmr WALSENBG | 230.00/WALSENBG | 115.00 #2 | 341 | 100 | 100 | MVA | 103.65 | 101.49 | 100.16 | | |
| WALSENBG | 230.00-WALSENBG | 115.00 #2 0 | Open Xfmr WALSENBG | 230.00/WALSENBG | 115.00 #1 | 340 | 100 | 100 | MVA | 103.88 | 101.73 | 100.38 | | |
| WINCHSTR | 345.00-VAIL | 345.00 #1 1 | Open Line FOURCORN | 500.00-MOENKOPI | 500.00 #1 | 2 | 1547.97 | 1857.56 | Amps | | | 102.38 | | |
| | | | Open Line MOENKOPI | 500.00-YAVAPAI | 500.00 #1 | 3 | 1547.97 | 1857.56 | Amps | | | 102.1 | | |

| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project | 11b30c7 | 3000 MW gen | 70% Comp | 11b35c7 | 3500 MW gen | 70% Comp | 11b40c7 | 4000 MW gen | 70% Comp | 11b45c7 | 4500 MW gen | 70% Comp | 11b50c7 | 5000 MW gen | 70% Comp |
|----------------------------------|--|---|-----------|-------------|---------|---------------|-------------|-------------|-------------|-------------|-------------|-------------|----------|---------|-------------|----------|---------|-------------|----------|
| ZONE | (All) | At least a 3% decrease from previous case | | | | | | | | | | | | | | | | | |
| TYPE | (All) | Change of less than ± 3% from previous case | | | | | | | | | | | | | | | | | |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | | | | | | | | | | | | | | | | | |
| E PCT | | BASECASE | | | | | | | | | | | | | | | | | |
| OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 11b30c7.sav | 11b35c7.sav | 11b40c7.sav | 11b45c7.sav | 11b50c7.sav | | | | | | | | |
| WINCHSTR 345.00-VAIL 345.00 #1 1 | Open Line FOURCORN 345.00-CHOLLA 345.00 #1 | 8 | 1547.97 | 1857.56 | Amps | | | | 101.51 | 105.01 | 110.35 | | | | | | | | |
| | Open Line FOURCORN 345.00-CHOLLA 345.00 #2 | 9 | 1547.97 | 1857.56 | Amps | | | | 101.5 | 105 | 110.33 | | | | | | | | |
| | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 1547.97 | 1857.56 | Amps | | | | 100.79 | 104.23 | 109.53 | | | | | | | | |
| | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1547.97 | 1857.56 | Amps | | | | 104.17 | 107.21 | 113.31 | | | | | | | | |
| | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 1547.97 | 1857.56 | Amps | | | | 100.86 | 104.31 | 109.61 | | | | | | | | |
| | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | 116.71 | 121.09 | 125.7 | 129.15 | 135.24 | | | | | | | | |
| | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 1547.97 | 1857.56 | Amps | | | | 100.82 | 104.27 | 109.57 | | | | | | | | |
| | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 1547.97 | 1857.56 | Amps | | 105.51 | 109.26 | 113.15 | 116.26 | 121.6 | | | | | | | | |
| | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 1547.97 | 1857.56 | Amps | | | | 100.75 | 104.2 | 109.49 | | | | | | | | |
| | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 1547.97 | 1857.56 | Amps | | | | 100.75 | 104.2 | 109.49 | | | | | | | | |
| | Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 1547.97 | 1857.56 | Amps | | | | 100.7 | 104.14 | 109.42 | | | | | | | | |
| | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1547.97 | 1857.56 | Amps | | | | 101.11 | 104.52 | 109.87 | | | | | | | | |
| | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1547.97 | 1857.56 | Amps | | | | 101.1 | 104.51 | 109.86 | | | | | | | | |
| | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1547.97 | 1857.56 | Amps | | | | 101.05 | 104.46 | 109.8 | | | | | | | | |
| | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1547.97 | 1857.56 | Amps | | | | 101.05 | 104.46 | 109.8 | | | | | | | | |
| | Open Line RME 500.00-FCW 500.00 #1 | 71 | 1547.97 | 1857.56 | Amps | | | | 103.61 | 107.22 | 112.9 | | | | | | | | |
| | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 1547.97 | 1857.56 | Amps | | | | 101.13 | 104.57 | 109.97 | | | | | | | | |
| | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 1547.97 | 1857.56 | Amps | | | | 102.58 | 106.3 | 112.07 | | | | | | | | |
| | Open Line CF&IFURN 230.00-COMANCHE 230.00 #1 | 145 | 1547.97 | 1857.56 | Amps | | | | 101.17 | 104.61 | 109.93 | | | | | | | | |
| | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 1547.97 | 1857.56 | Amps | | | | 100.92 | 104.35 | 109.63 | | | | | | | | |
| | Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 1547.97 | 1857.56 | Amps | | | | 100.7 | 104.14 | 109.42 | | | | | | | | |
| | Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 1547.97 | 1857.56 | Amps | | | | 100.9 | 104.36 | 109.66 | | | | | | | | |
| | Open Line SNTAROSA 230.00-DBG 230.00 #1 | 22 | 1547.97 | 1857.56 | Amps | | | | 101.17 | 104.58 | 109.89 | | | | | | | | |
| | Open Line WINCHSTR 500.00-PINAL S 500.00 #1 | 398 | 1547.97 | 1857.56 | Amps | | 116.2 | 123.87 | 131.71 | 138.32 | 148.73 | | | | | | | | |
| | Open Line CHOLLA 500.00-SAGUARO 500.00 #1 | 1 | 1547.97 | 1857.56 | Amps | | | | 103.94 | 107.27 | 112.79 | | | | | | | | |
| | Open Line YAVAPAI 500.00-WESTWING 500.00 #1 | 5 | 1547.97 | 1857.56 | Amps | | | | 101.39 | 104.85 | 110.21 | | | | | | | | |
| | Open Line CHOLLA 345.00-PNPKAPS 345.00 #1 | 6 | 1547.97 | 1857.56 | Amps | | | | 101.14 | 104.58 | 109.94 | | | | | | | | |
| | Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 | 7 | 1547.97 | 1857.56 | Amps | | | | 101.21 | 104.65 | 110.01 | | | | | | | | |
| | Open Line BROWNING 500.00-KYRENE 500.00 #1 | 25 | 1547.97 | 1857.56 | Amps | | | | 101.77 | 105.34 | 110.79 | | | | | | | | |
| | Open Line SNTAROSA 500.00-PINAL W 500.00 #1 | 26 | 1547.97 | 1857.56 | Amps | | | | 105.53 | 110.06 | 117.22 | | | | | | | | |
| | Open Line SPRINGR 345.00-CORONADO 345.00 #1 | 32 | 1547.97 | 1857.56 | Amps | | | | 102.49 | 106.14 | 111.7 | | | | | | | | |
| | Open Line PINALWES 345.00-SOUTH 345.00 #1 | 38 | 1547.97 | 1857.56 | Amps | | | | 102.11 | 104.29 | | | | | | | | | |
| | Open Line BUTERFLD 230.00-G SLOAN 230.00 #1 | 44 | 1547.97 | 1857.56 | Amps | | 100.19 | 103.96 | 107.84 | 111.21 | 116.56 | | | | | | | | |
| | Open Line G.SLOAN 230.00-PANTANO 230.00 #1 | 45 | 1547.97 | 1857.56 | Amps | | | 102.01 | 105.89 | 109.34 | 114.69 | | | | | | | | |
| | Open Line BUTERFLD 230.00-SAN RAF 230.00 #1 | 46 | 1547.97 | 1857.56 | Amps | | | | 100.9 | 104.32 | 109.6 | | | | | | | | |
| | Open Line PANTANO 230.00-NEWTUCSN 230.00 #1 | 52 | 1547.97 | 1857.56 | Amps | | | | 103.72 | 107.25 | 112.6 | | | | | | | | |
| | Open Line GLEN PS 230.00-NAVAJO 230.00 #1 | 61 | 1547.97 | 1857.56 | Amps | | | | 101.18 | 104.69 | 110.06 | | | | | | | | |
| | Open Line KAYENTA 230.00-SHIPROCK 230.00 #1 | 62 | 1547.97 | 1857.56 | Amps | | | | 101.41 | 104.92 | 110.31 | | | | | | | | |
| | Open Line KAYENTA 230.00-LNGHOUSE 230.00 #1 | 63 | 1547.97 | 1857.56 | Amps | | | | 101.29 | 104.8 | 110.18 | | | | | | | | |
| | Open Line NAVAJO 230.00-LNGHOUSE 230.00 #1 | 65 | 1547.97 | 1857.56 | Amps | | | | 101.18 | 104.69 | 110.06 | | | | | | | | |
| | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 1547.97 | 1857.56 | Amps | | | | 101.55 | 104.99 | 110.32 | | | | | | | | |
| | Open Line FT.CRAIG 345.00-WESTMESA 345.00 #1 | 368 | 1547.97 | 1857.56 | Amps | | | | 101 | 104.51 | 109.93 | | | | | | | | |
| | Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | 1547.97 | 1857.56 | Amps | | | | 101.07 | 104.64 | | | | | | | | | |
| | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 1547.97 | 1857.56 | Amps | | | | 100.85 | 104.53 | 109.86 | | | | | | | | |
| | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 1547.97 | 1857.56 | Amps | | | 104.57 | 109.73 | 114.42 | 121.64 | | | | | | | | |
| | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 1547.97 | 1857.56 | Amps | | | | 101.56 | 105 | 110.46 | | | | | | | | |
| | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 1547.97 | 1857.56 | Amps | | | | 100.99 | 104.43 | 109.71 | | | | | | | | |
| | Open Xfmr REUNION 115.00/REUNION 230.00 #1 | 353 | 1547.97 | 1857.56 | Amps | | | | | 104.09 | | | | | | | | | |
| | Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | 1547.97 | 1857.56 | Amps | | | | 100.85 | 104.31 | 109.64 | | | | | | | | |
| | Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | 1547.97 | 1857.56 | Amps | | | | 100.96 | 104.44 | 109.8 | | | | | | | | |
| | Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | 1547.97 | 1857.56 | Amps | | | | 100.96 | 104.45 | 109.8 | | | | | | | | |
| | Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | 1547.97 | 1857.56 | Amps | | | | 100.87 | 104.36 | 109.72 | | | | | | | | |
| | Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | 1547.97 | 1857.56 | Amps | | | | 100.83 | 104.31 | 109.65 | | | | | | | | |
| | Open Line SPRINGR 500.00-SES 500.00 #1 | 383 | 1547.97 | 1857.56 | Amps | | | | 103.56 | 107.03 | 112.71 | | | | | | | | |
| | Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 1547.97 | 1857.56 | Amps | | | | 100.74 | 104.31 | 109.71 | | | | | | | | |
| | Open Line NEWTUCSN 230.00-SAHUARIT 230.00 #1 | 53 | 1547.97 | 1857.56 | Amps | | | | 103.14 | 106.68 | 112.02 | | | | | | | | |
| | Open Line SILVERKG 500.00-BROWNING 500.00 #1 | 24 | 1547.97 | 1857.56 | Amps | | | | 101.53 | 104.99 | 110.36 | | | | | | | | |
| | Open Line SAHUARIT 230.00-BICKNELL 230.00 #1 | 56 | 1547.97 | 1857.56 | Amps | | | | 102.01 | 105.58 | 110.92 | | | | | | | | |
| | Open Line MOENKOPI 500.00-RME 500.00 #1 | 67 | 1547.97 | 1857.56 | Amps | | | | 100.98 | 104.41 | 109.73 | | | | | | | | |
| | Open Line NAVAJO 500.00-RME 500.00 #1 | 68 | 1547.97 | 1857.56 | Amps | | | | 100.67 | 104.16 | 109.49 | | | | | | | | |
| | Open Line LUNA 345.00-AFTON 345.00 #1 | 78 | 1547.97 | 1857.56 | Amps | | | | 101.19 | 104.66 | 110.06 | | | | | | | | |
| | Open Xfmr LUNA 500.00/LUNA 345.00 #1 | 400 | 1547.97 | 1857.56 | Amps | | | | 100.84 | 104.42 | 109.87 | | | | | | | | |
| | Open Line HACKBERY 230.00-MORENCI 230.00 #1 | 48 | 1547.97 | 1857.56 | Amps | | | | 101.01 | 104.44 | 109.75 | | | | | | | | |

| AREA | ZONE | TYPE | NOTES | High Plains Express Contingency | 11b30c7 | 11b35c7 | 11b40c7 | 11b45c7 | 11b50c7 | | |
|--|--|---------|----------------------------|---|----------------------|----------------------|----------------------|----------------------|----------------------|-------------|-------------|
| (All) | (All) | (All) | EMERGENCY RATING VIOLATION | At least a 3% decrease from previous case | 11b30c7 | 11b35c7 | 11b40c7 | 11b45c7 | 11b50c7 | | |
| | | | | Change of less than ± 3% from previous case | 3000 MW gen 70% Comp | 3500 MW gen 70% Comp | 4000 MW gen 70% Comp | 4500 MW gen 70% Comp | 5000 MW gen 70% Comp | | |
| | | | | At least a 3% increase from previous case | 11b30c7 | 11b35c7 | 11b40c7 | 11b45c7 | 11b50c7 | | |
| E PCT | | | | BASECASE | | | | | | | |
| OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 11b30c7.sav | 11b35c7.sav | 11b40c7.sav | 11b45c7.sav | 11b50c7.sav |
| WINCHSTR 345.00-VAIL 345.00 #1 1 | Open Line DAVEJOHN 230.00-DIFICULT 230.00 #1 | 131 | 1547.97 | 1857.56 | Amps | | | | 101.1 | 104.62 | 110.01 |
| | Open Line SHIPROCK 345.00-SAN_JUAN 345.00 #1 | 105 | 1547.97 | 1857.56 | Amps | | | | 100.69 | 104.15 | 109.44 |
| | Open Line GUNBARRE 230.00-NIWOT 230.00 #1 | 258 | 1547.97 | 1857.56 | Amps | | | | 100.69 | 104.12 | |
| | Open Line SAGUARO 230.00-CASGRAPS 230.00 #1 | 19 | 1547.97 | 1857.56 | Amps | | | | | 104.05 | |
| | Open Line CASPERPP 230.00-DAVEJOHN 230.00 #1 | 124 | 1547.97 | 1857.56 | Amps | | | | | 104.11 | |
| WINCHSTR 345.00-VAIL 345.00 #1 2 | Open Line FT_CRAIG 345.00-SPRINGR 345.00 #1 | 370 | 1547.97 | 1857.56 | Amps | | | | | 104.44 | 109.87 |
| | Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 | 2 | 1499.44 | 2024.91 | Amps | | | | | | 102.19 |
| | Open Line MOENKOPI 500.00-YAVAPAI 500.00 #1 | 3 | 1499.44 | 2024.91 | Amps | | | | | | 101.77 |
| | Open Line FOURCORN 345.00-CHOLLA 345.00 #1 | 8 | 1499.44 | 2024.91 | Amps | | | | | | 101.23 |
| | Open Line FOURCORN 345.00-CHOLLA 345.00 #2 | 9 | 1499.44 | 2024.91 | Amps | | | | | | 101.22 |
| | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 1499.44 | 2024.91 | Amps | | | | | | 100.48 |
| | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1499.44 | 2024.91 | Amps | | | | | | 103.95 |
| | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 1499.44 | 2024.91 | Amps | | | | | | 100.56 |
| | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1499.44 | 2024.91 | Amps | | 107.07 | 111.08 | 115.32 | 118.48 | 124.06 |
| | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 1499.44 | 2024.91 | Amps | | | | | | 100.52 |
| | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 1499.44 | 2024.91 | Amps | | | 100.23 | 103.8 | 106.65 | 111.55 |
| | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 1499.44 | 2024.91 | Amps | | | | | | 100.44 |
| | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 1499.44 | 2024.91 | Amps | | | | | | 100.44 |
| | Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 1499.44 | 2024.91 | Amps | | | | | | 100.38 |
| | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1499.44 | 2024.91 | Amps | | | | | | 100.79 |
| | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1499.44 | 2024.91 | Amps | | | | | | 100.78 |
| | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1499.44 | 2024.91 | Amps | | | | | | 100.73 |
| | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1499.44 | 2024.91 | Amps | | | | | | 100.72 |
| | Open Line RME 500.00-FCW 500.00 #1 | 71 | 1499.44 | 2024.91 | Amps | | | | | | 103.57 |
| | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 1499.44 | 2024.91 | Amps | | | | | | 100.88 |
| | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 1499.44 | 2024.91 | Amps | | | | | | 102.8 |
| | Open Line CF&IFURN 230.00-COMANCHE 230.00 #1 | 145 | 1499.44 | 2024.91 | Amps | | | | | | 100.84 |
| | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 1499.44 | 2024.91 | Amps | | | | | | 100.57 |
| | Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 1499.44 | 2024.91 | Amps | | | | | | 100.38 |
| | Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 1499.44 | 2024.91 | Amps | | | | | | 100.59 |
| | Open Line SNTAROSA 230.00-DBG 230.00 #1 | 22 | 1499.44 | 2024.91 | Amps | | | | | | 100.81 |
| | Open Line WINCHSTR 500.00-PINAL_S 500.00 #1 | 398 | 1499.44 | 2024.91 | Amps | | 106.59 | 113.63 | 120.83 | 126.89 | 136.44 |
| | Open Line CHOLLA 500.00-SAGUARO 500.00 #1 | 1 | 1499.44 | 2024.91 | Amps | | | | | | 103.47 |
| | Open Line YAVAPAI 500.00-WESTWING 500.00 #1 | 5 | 1499.44 | 2024.91 | Amps | | | | | | 101.1 |
| | Open Line CHOLLA 345.00-PNPKAPS 345.00 #1 | 6 | 1499.44 | 2024.91 | Amps | | | | | | 100.85 |
| | Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 | 7 | 1499.44 | 2024.91 | Amps | | | | | | 100.92 |
| | Open Line BROWNING 500.00-KYRENE 500.00 #1 | 25 | 1499.44 | 2024.91 | Amps | | | | | | 101.63 |
| | Open Line SNTAROSA 500.00-PINAL_W 500.00 #1 | 26 | 1499.44 | 2024.91 | Amps | | | | 100.97 | | 107.53 |
| | Open Line SPRINGR 345.00-CORONADO 345.00 #1 | 32 | 1499.44 | 2024.91 | Amps | | | | | | 102.47 |
| | Open Line BUTERFLD 230.00-G.SLOAN 230.00 #1 | 44 | 1499.44 | 2024.91 | Amps | | | | | 102.02 | 106.93 |
| | Open Line G.SLOAN 230.00-PANTANO 230.00 #1 | 45 | 1499.44 | 2024.91 | Amps | | | | | 100.3 | 105.21 |
| | Open Line BUTERFLD 230.00-SAN RAF 230.00 #1 | 46 | 1499.44 | 2024.91 | Amps | | | | | | 100.55 |
| | Open Line PANTANO 230.00-NEWTUCSN 230.00 #1 | 52 | 1499.44 | 2024.91 | Amps | | | | | | 103.29 |
| | Open Line GLEN PS 230.00-NAVAJO 230.00 #1 | 61 | 1499.44 | 2024.91 | Amps | | | | | | 100.97 |
| | Open Line KAYENTA 230.00-SHIPROCK 230.00 #1 | 62 | 1499.44 | 2024.91 | Amps | | | | | | 101.2 |
| | Open Line KAYENTA 230.00-LNGHOUSE 230.00 #1 | 63 | 1499.44 | 2024.91 | Amps | | | | | | 101.07 |
| | Open Line NAVAJO 230.00-LNGHOUSE 230.00 #1 | 65 | 1499.44 | 2024.91 | Amps | | | | | | 100.97 |
| | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 1499.44 | 2024.91 | Amps | | | | | | 101.2 |
| | Open Line FT_CRAIG 345.00-WESTMESA 345.00 #1 | 368 | 1499.44 | 2024.91 | Amps | | | | | | 100.85 |
| | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 1499.44 | 2024.91 | Amps | | | | | | 100.78 |
| Open Line FT_CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 1499.44 | 2024.91 | Amps | | | | 100.66 | 104.96 | 111.59 | |
| Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 1499.44 | 2024.91 | Amps | | | | | | 101.33 | |
| Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 1499.44 | 2024.91 | Amps | | | | | | 100.65 | |
| Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | 1499.44 | 2024.91 | Amps | | | | | | 100.58 | |
| Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | 1499.44 | 2024.91 | Amps | | | | | | 100.72 | |
| Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | 1499.44 | 2024.91 | Amps | | | | | | 100.73 | |
| Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | 1499.44 | 2024.91 | Amps | | | | | | 100.65 | |
| Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | 1499.44 | 2024.91 | Amps | | | | | | 100.59 | |
| Open Line SPRINGR 500.00-SES 500.00 #1 | 383 | 1499.44 | 2024.91 | Amps | | | | | | 103.39 | |
| Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 1499.44 | 2024.91 | Amps | | | | | | 100.65 | |
| Open Line NEWTUCSN 230.00-SAHUARIT 230.00 #1 | 53 | 1499.44 | 2024.91 | Amps | | | | | | 102.76 | |
| Open Line SILVERKG 500.00-BROWNING 500.00 #1 | 24 | 1499.44 | 2024.91 | Amps | | | | | | 101.24 | |
| Open Line SAHUARIT 230.00-BICKNELL 230.00 #1 | 56 | 1499.44 | 2024.91 | Amps | | | | | | 101.76 | |

| AREA | ZONE | TYPE | NOTES | | NO | N RATE | E RATE | UNIT | BASECASE | | | | | | |
|----------------------------------|--|-------|----------------------------|---|------|---------------|-------------|-------------|---------------|-------------|-------------|-------------|-------------|-------------|--|
| | | | | | | | | | pre10hs17.sav | 11b30c7.sav | 11b35c7.sav | 11b40c7.sav | 11b45c7.sav | 11b50c7.sav | |
| (All) | (All) | (All) | EMERGENCY RATING VIOLATION | High Plains Express Contingency | | | | | pre10hs17 | 11b30c7 | 11b35c7 | 11b40c7 | 11b45c7 | 11b50c7 | |
| | | | | At least a 3% decrease from previous case | | | | | Pre Project | 3000 MW gen | 70% Comp | | | | |
| | | | | Change of less than ± 3% from previous case | | | | | | 3500 MW gen | 70% Comp | | | | |
| | | | | At least a 3% increase from previous case | | | | | | 4000 MW gen | 70% Comp | | | | |
| | | | | | | | | | | 4500 MW gen | 70% Comp | | | | |
| | | | | | | | | | | 5000 MW gen | 70% Comp | | | | |
| OVERLOADED ELEMENT | | | | | | | | | | BASECASE | | | | | |
| OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 11b30c7.sav | 11b35c7.sav | 11b40c7.sav | 11b45c7.sav | 11b50c7.sav | | | | |
| WINCHSTR 345.00-VAIL 345.00 #1 2 | Open Line MOENKOPI 500.00-RME 500.00 #1 | 67 | 1499.44 | 2024.91 | Amps | | | | | | 100.66 | | | | |
| | Open Line NAVAJO 500.00-RME 500.00 #1 | 68 | 1499.44 | 2024.91 | Amps | | | | | | 100.45 | | | | |
| | Open Line LUNA 345.00-AFTON 345.00 #1 | 78 | 1499.44 | 2024.91 | Amps | | | | | | 100.97 | | | | |
| | Open Xfmr LUNA 500.00/LUNA 345.00 #1 | 400 | 1499.44 | 2024.91 | Amps | | | | | | 100.79 | | | | |
| | Open Line HACKBERY 230.00-MORENCI 230.00 #1 | 48 | 1499.44 | 2024.91 | Amps | | | | | | 100.68 | | | | |
| | Open Line DAVEJOHN 230.00-DIFICULT 230.00 #1 | 131 | 1499.44 | 2024.91 | Amps | | | | | | 100.92 | | | | |
| | Open Line SHIPROCK 345.00-SAN_JUAN 345.00 #1 | 105 | 1499.44 | 2024.91 | Amps | | | | | | 100.39 | | | | |
| | Open Line FT.CRAIG 345.00-SPRINGR 345.00 #1 | 370 | 1499.44 | 2024.91 | Amps | | | | | | 100.79 | | | | |
| WINCHSTR 345.00-VAIL 345.00 #1 3 | Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 | 2 | 1547.97 | 1857.56 | Amps | | | | 102.38 | 105.91 | 111.4 | | | | |
| | Open Line MOENKOPI 500.00-YAVAPAI 500.00 #1 | 3 | 1547.97 | 1857.56 | Amps | | | | 102.1 | 105.53 | 110.94 | | | | |
| | Open Line FOURCORN 345.00-CHOLLA 345.00 #1 | 8 | 1547.97 | 1857.56 | Amps | | | | 101.51 | 105.01 | 110.35 | | | | |
| | Open Line FOURCORN 345.00-CHOLLA 345.00 #2 | 9 | 1547.97 | 1857.56 | Amps | | | | 101.5 | 105 | 110.33 | | | | |
| | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 1547.97 | 1857.56 | Amps | | | | 100.79 | 104.23 | 109.53 | | | | |
| | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1547.97 | 1857.56 | Amps | | | | 104.17 | 107.21 | 113.31 | | | | |
| | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 1547.97 | 1857.56 | Amps | | | | 100.86 | 104.31 | 109.61 | | | | |
| | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | | | 116.71 | 121.09 | 135.24 | | | | |
| | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 1547.97 | 1857.56 | Amps | | | | 125.7 | 129.15 | 135.24 | | | | |
| | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 1547.97 | 1857.56 | Amps | | | | 100.82 | 104.27 | 109.57 | | | | |
| | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 1547.97 | 1857.56 | Amps | | | | 105.51 | 109.26 | 121.6 | | | | |
| | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 1547.97 | 1857.56 | Amps | | | | 100.75 | 104.2 | 109.49 | | | | |
| | Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 1547.97 | 1857.56 | Amps | | | | 100.7 | 104.14 | 109.42 | | | | |
| | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1547.97 | 1857.56 | Amps | | | | 101.11 | 104.52 | 109.87 | | | | |
| | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1547.97 | 1857.56 | Amps | | | | 101.1 | 104.51 | 109.86 | | | | |
| | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1547.97 | 1857.56 | Amps | | | | 101.05 | 104.46 | 109.8 | | | | |
| | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1547.97 | 1857.56 | Amps | | | | 101.05 | 104.46 | 109.8 | | | | |
| | Open Line RME 500.00-FCW 500.00 #1 | 71 | 1547.97 | 1857.56 | Amps | | | | 103.61 | 107.22 | 112.9 | | | | |
| | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 1547.97 | 1857.56 | Amps | | | | 101.13 | 104.57 | 109.97 | | | | |
| | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 1547.97 | 1857.56 | Amps | | | | 102.58 | 106.3 | 112.07 | | | | |
| | Open Line CF&FURN 230.00-COMANCHE 230.00 #1 | 145 | 1547.97 | 1857.56 | Amps | | | | 101.17 | 104.61 | 109.93 | | | | |
| | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 1547.97 | 1857.56 | Amps | | | | 100.92 | 104.35 | 109.63 | | | | |
| | Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 1547.97 | 1857.56 | Amps | | | | 100.7 | 104.14 | 109.42 | | | | |
| | Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 1547.97 | 1857.56 | Amps | | | | 100.9 | 104.36 | 109.66 | | | | |
| | Open Line SNTAROSA 230.00-DBG 230.00 #1 | 22 | 1547.97 | 1857.56 | Amps | | | | 101.17 | 104.58 | 109.89 | | | | |
| | Open Line WINCHSTR 500.00-PINAL_S 500.00 #1 | 398 | 1547.97 | 1857.56 | Amps | | | | 116.2 | 123.87 | 148.73 | | | | |
| | Open Line CHOLLA 500.00-SAGUARO 500.00 #1 | 1 | 1547.97 | 1857.56 | Amps | | | | 103.94 | 107.27 | 112.79 | | | | |
| | Open Line YAVAPAI 500.00-WESTWING 500.00 #1 | 5 | 1547.97 | 1857.56 | Amps | | | | 101.39 | 104.85 | 110.21 | | | | |
| | Open Line CHOLLA 345.00-PNPKAPS 345.00 #1 | 6 | 1547.97 | 1857.56 | Amps | | | | 101.14 | 104.58 | 109.94 | | | | |
| | Open Line CHOLLA 345.00-PREHCYN 345.00 #1 | 7 | 1547.97 | 1857.56 | Amps | | | | 101.21 | 104.65 | 110.01 | | | | |
| | Open Line BROWNING 500.00-KYRENE 500.00 #1 | 25 | 1547.97 | 1857.56 | Amps | | | | 101.77 | 105.34 | 110.79 | | | | |
| | Open Line SNTAROSA 500.00-PINAL_W 500.00 #1 | 26 | 1547.97 | 1857.56 | Amps | | | | 105.53 | 110.06 | 117.22 | | | | |
| | Open Line SPRINGR 345.00-CORONADO 345.00 #1 | 32 | 1547.97 | 1857.56 | Amps | | | | 102.49 | 106.14 | 111.7 | | | | |
| | Open Line PINALWES 345.00-SOUTH 345.00 #1 | 38 | 1547.97 | 1857.56 | Amps | | | | 102.11 | 104.29 | | | | | |
| | Open Line BUTERFLD 230.00-G.SLOAN 230.00 #1 | 44 | 1547.97 | 1857.56 | Amps | | | | 100.19 | 103.96 | 116.56 | | | | |
| | Open Line G.SLOAN 230.00-PANTANO 230.00 #1 | 45 | 1547.97 | 1857.56 | Amps | | | | 102.01 | 105.89 | 114.69 | | | | |
| | Open Line BUTERFLD 230.00-SAN RAF 230.00 #1 | 46 | 1547.97 | 1857.56 | Amps | | | | 100.9 | 104.32 | 109.6 | | | | |
| | Open Line PANTANO 230.00-NEWTUCSN 230.00 #1 | 52 | 1547.97 | 1857.56 | Amps | | | | 103.72 | 107.25 | 112.6 | | | | |
| | Open Line GLEN PS 230.00-NAVAJO 230.00 #1 | 61 | 1547.97 | 1857.56 | Amps | | | | 101.18 | 104.69 | 110.06 | | | | |
| | Open Line KAYENTA 230.00-SHIPROCK 230.00 #1 | 62 | 1547.97 | 1857.56 | Amps | | | | 101.41 | 104.92 | 110.31 | | | | |
| | Open Line KAYENTA 230.00-LNGHOUSE 230.00 #1 | 63 | 1547.97 | 1857.56 | Amps | | | | 101.29 | 104.8 | 110.18 | | | | |
| | Open Line NAVAJO 230.00-LNGHOUSE 230.00 #1 | 65 | 1547.97 | 1857.56 | Amps | | | | 101.18 | 104.69 | 110.06 | | | | |
| | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 1547.97 | 1857.56 | Amps | | | | 101.55 | 104.99 | 110.32 | | | | |
| | Open Line FT.CRAIG 345.00-WESTMESA 345.00 #1 | 368 | 1547.97 | 1857.56 | Amps | | | | 101 | 104.51 | 109.93 | | | | |
| | Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | 1547.97 | 1857.56 | Amps | | | | 101.07 | 104.64 | | | | | |
| | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 1547.97 | 1857.56 | Amps | | | | 100.85 | 104.53 | 109.86 | | | | |
| | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 1547.97 | 1857.56 | Amps | | | | 104.57 | 109.73 | 121.64 | | | | |
| | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 1547.97 | 1857.56 | Amps | | | | 101.56 | 105 | 110.46 | | | | |
| | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 1547.97 | 1857.56 | Amps | | | | 100.99 | 104.43 | 109.71 | | | | |
| | Open Xfmr REUNION 115.00/REUNION 230.00 #1 | 353 | 1547.97 | 1857.56 | Amps | | | | | 104.09 | | | | | |
| | Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | 1547.97 | 1857.56 | Amps | | | | 100.85 | 104.31 | 109.64 | | | | |
| | Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | 1547.97 | 1857.56 | Amps | | | | 100.96 | 104.44 | 109.8 | | | | |
| | Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | 1547.97 | 1857.56 | Amps | | | | 100.96 | 104.45 | 109.8 | | | | |
| | Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | 1547.97 | 1857.56 | Amps | | | | 100.87 | 104.36 | 109.72 | | | | |
| | Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | 1547.97 | 1857.56 | Amps | | | | 100.83 | 104.31 | 109.65 | | | | |

| AREA | ZONE | TYPE | NOTES | High Plains Express Contingency | 11b30c7 | 11b35c7 | 11b40c7 | 11b45c7 | 11b50c7 |
|-------|-------|-------|----------------------------|---|-------------|-------------|-------------|-------------|-------------|
| (All) | (All) | (All) | EMERGENCY RATING VIOLATION | At least a 3% decrease from previous case | 3000 MW gen | 3500 MW gen | 4000 MW gen | 4500 MW gen | 5000 MW gen |
| | | | | Change of less than ± 3% from previous case | 70% Comp | 70% Comp | 70% Comp | 70% Comp | 70% Comp |
| | | | | At least a 3% increase from previous case | | | | | |

| E PCT | | | | BASECASE | | | | | | | |
|---|--|--|---------|----------|------|---------------|-------------|-------------|-------------|-------------|-------------|
| OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 11b30c7.sav | 11b35c7.sav | 11b40c7.sav | 11b45c7.sav | 11b50c7.sav |
| WINCHSTR 345.00-VAIL 345.00 #1 3 | Open Line SPRINGR 500.00-SES 500.00 #1 | 383 | 1547.97 | 1857.56 | Amps | | | | 103.56 | 107.03 | 112.71 |
| | Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 1547.97 | 1857.56 | Amps | | | | 100.74 | 104.31 | 109.71 |
| | Open Line NEWTUCSN 230.00-SAHUARIT 230.00 #1 | 53 | 1547.97 | 1857.56 | Amps | | | | 103.14 | 106.68 | 112.02 |
| | Open Line SILVERKG 500.00-BROWNING 500.00 #1 | 24 | 1547.97 | 1857.56 | Amps | | | | 101.53 | 104.99 | 110.36 |
| | Open Line SAHUARIT 230.00-BICKNELL 230.00 #1 | 56 | 1547.97 | 1857.56 | Amps | | | | 102.01 | 105.58 | 110.92 |
| | Open Line MOENKOPI 500.00-RME 500.00 #1 | 67 | 1547.97 | 1857.56 | Amps | | | | 100.98 | 104.41 | 109.73 |
| | Open Line NAVAJO 500.00-RME 500.00 #1 | 68 | 1547.97 | 1857.56 | Amps | | | | 100.67 | 104.16 | 109.49 |
| | Open Line LUNA 345.00-AFTON 345.00 #1 | 78 | 1547.97 | 1857.56 | Amps | | | | 101.19 | 104.66 | 110.06 |
| | Open Xfmr LUNA 500.00/LUNA 345.00 #1 | 400 | 1547.97 | 1857.56 | Amps | | | | 100.84 | 104.42 | 109.87 |
| | Open Line HACKBERY 230.00-MORENCI 230.00 #1 | 48 | 1547.97 | 1857.56 | Amps | | | | 101.01 | 104.44 | 109.75 |
| | Open Line DAVEJOHN 230.00-DIFICULT 230.00 #1 | 131 | 1547.97 | 1857.56 | Amps | | | | 101.1 | 104.62 | 110.01 |
| | Open Line SHIPROCK 345.00-SAN JUAN 345.00 #1 | 105 | 1547.97 | 1857.56 | Amps | | | | 100.69 | 104.15 | 109.44 |
| | Open Line GUNBARRE 230.00-NIWOT 230.00 #1 | 258 | 1547.97 | 1857.56 | Amps | | | | 100.69 | 104.12 | |
| | Open Line SAGUARO 230.00-CASGRAPS 230.00 #1 | 19 | 1547.97 | 1857.56 | Amps | | | | | 104.05 | |
| | Open Line CASPERPP 230.00-DAVEJOHN 230.00 #1 | 124 | 1547.97 | 1857.56 | Amps | | | | | 104.11 | |
| | Open Line FT.CRAIG 345.00-SPRINGR 345.00 #1 | 370 | 1547.97 | 1857.56 | Amps | | | | | 104.44 | 109.87 |
| | Open Line WINCHSTR 500.00-PINAL S 500.00 #1 | 398 | 840 | 1200 | MVA | | | | | 105.01 | 112.11 |
| | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 705.37 | 705.37 | Amps | | | | | | 106.8 |
| | WRAY 230.00-N.YUMA 230.00 #1 1 | Open Line PAWNEE 230.00-STORY 230.00 #1 | 158 | 186 | 186 | MVA | 138.08 | 135.35 | 132.14 | 130.63 | 118.86 |
| | WRAY 230.00-WRAY 115.00 #1 0 | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 186 | 186 | MVA | 137.66 | 134.99 | 131.9 | 130.53 | 119.17 |
| Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | | 166 | 186 | 186 | MVA | 137.24 | 134.56 | 131.47 | 130.07 | 118.66 | |
| Open Line BURLNGTN 230.00-WRAY 230.00 #1 | | 178 | 186 | 186 | MVA | 138.07 | 135.57 | 132.69 | 131.41 | 120.44 | |
| Open Line WESTHILL 230.00-STEGALL 230.00 #1 | | 179 | 186 | 186 | MVA | 137.27 | 134.61 | 131.53 | 130.12 | 118.75 | |
| Open Line LAR.RIVR 230.00-STEGALL 230.00 #1 | | 180 | 186 | 186 | MVA | 137.72 | 135.1 | 132.08 | 130.73 | 119.43 | |
| Open Line ARCHER 345.00-STORY 345.00 #1 | | 181 | 186 | 186 | MVA | 137.52 | 134.92 | 131.91 | 130.58 | 119.33 | |
| Open Line LAR.RIVR 345.00-ARCHER 345.00 #1 | | 182 | 186 | 186 | MVA | 138.82 | 136.25 | 133.18 | 131.96 | 120.86 | |
| Open Line N.YUMA 230.00-WRAY 230.00 #1 | | 184 | 186 | 186 | MVA | 144.91 | 141.23 | 137.19 | 135.14 | 123.09 | |
| Open Line SIDNEY 230.00-STEGALL 230.00 #1 | | 187 | 186 | 186 | MVA | 140.66 | 138.15 | 135.21 | 133.98 | 122.89 | |
| Open Line STORY 345.00-ARCHER 345.00 #1 | | 191 | 186 | 186 | MVA | 137.52 | 134.92 | 131.91 | 130.58 | 119.33 | |
| Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | | 200 | 186 | 186 | MVA | 140.89 | 138.34 | 135.56 | 134.19 | 123.2 | |
| Open Line EGYCNTR 500.00-BOONE 500.00 #1 | | 202 | 186 | 186 | MVA | | | | 130.05 | 118.93 | |
| Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | | 205 | 186 | 186 | MVA | 142.01 | 139.45 | 136.83 | 135.27 | 124.33 | |
| Open Line STORY 230.00-PAWNEE 230.00 #1 | | 306 | 186 | 186 | MVA | 138.08 | 135.35 | 132.14 | 130.63 | 118.86 | |
| Open Xfmr PAWNEE 500.00/PAWNEE 230.00 #1 | | 387 | 186 | 186 | MVA | 140.04 | 137.25 | 133.93 | 132.54 | 120.97 | |
| Open Line WRAY 500.00-BURLNGTN 500.00 #1 | | 390 | 186 | 186 | MVA | 155.76 | 159.84 | 165.59 | 170.05 | 170.05 | |
| Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | | 391 | 186 | 186 | MVA | 139.03 | 136.66 | 133.81 | 133.67 | 123.09 | |
| Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | | 392 | 186 | 186 | MVA | 139.5 | 137.38 | 135.15 | 134.65 | | |
| Open Line LUNA 500.00-WINCHSTR 500.00 #1 | | 397 | 186 | 186 | MVA | 137.35 | 134.73 | 131.71 | 130.37 | 118.77 | |
| Drop Generator at DJ GEN 1 16.00 #1, 500 MW Dropped | | 404 | 186 | 186 | MVA | 138.28 | 135.93 | 133.31 | 131.97 | 120.85 | |
| Drop Generator at LR GEN 1 16.00 #1, 500 MW Dropped | | 409 | 186 | 186 | MVA | 138.16 | 135.79 | 133.19 | 131.85 | 120.72 | |
| Open Xfmr LAR.RIVR 500.00/LAR.RIVR 345.00 #1 | | 399 | 186 | 186 | MVA | 137.89 | 135.25 | 132.24 | 130.9 | 120.13 | |
| Drop Generator at DJ GEN 2 16.00 #1, 500 MW Dropped | | 405 | 186 | 186 | MVA | 138.28 | 135.93 | 133.31 | 131.97 | 120.85 | |
| Drop Generator at LR GEN 2 16.00 #1, 500 MW Dropped | | 410 | 186 | 186 | MVA | 138.16 | 135.79 | 133.19 | 131.85 | 120.72 | |
| Open Line DAVEJOHN 230.00-STEGALL 230.00 #1 | | 134 | 186 | 186 | MVA | | | | | 118.61 | |
| Drop Generator at DJ GEN 3 16.00 #1, 500 MW Dropped | | 406 | 186 | 186 | MVA | 138.28 | 135.93 | 133.31 | 131.97 | 120.85 | |
| Drop Generator at LR GEN 3 16.00 #1, 500 MW Dropped | | 411 | 186 | 186 | MVA | 138.16 | 135.79 | 133.19 | 131.85 | 120.72 | |
| Drop Generator at DJ GEN 4 16.00 #1, 500 MW Dropped | | 407 | 186 | 186 | MVA | | 135.93 | 133.31 | 131.97 | 120.85 | |
| Open Line STEGALDC 230.00-STEGALL 230.00 #1 | | 189 | 186 | 186 | MVA | | | 131.46 | 130.04 | 118.68 | |
| Drop Generator at LR GEN 4 16.00 #1, 500 MW Dropped | | 412 | 186 | 186 | MVA | | | 133.19 | 131.85 | 120.72 | |
| Drop Generator at DJ GEN 5 16.00 #1, 500 MW Dropped | | 408 | 186 | 186 | MVA | | | | 131.97 | 120.85 | |
| Drop Generator at LR GEN 5 16.00 #1, 500 MW Dropped | | 413 | 186 | 186 | MVA | | | | | 120.72 | |

| AREA | ZONE | TYPE | NOTES | (All) | High Plains Express Contingency | pre10hs17 | | Pre Project | | 70% Comp | | | | | | | | | |
|--------------------|----------------|-----------|-------|-------|---------------------------------|---|---|---|---|---|---|----------------|----------------|----------------|----------------|----------------|--------------|------------|-------------|
| | | | | | | At least a 3% decrease from previous case | Change of less than ± 3% from previous case | At least a 3% increase from previous case | At least a 3% decrease from previous case | Change of less than ± 3% from previous case | At least a 3% increase from previous case | 12b40c7d1d | 4000 MW gen | 70% Comp, 1d | 11b10c7d1a | 1000 MW gen | 70% Comp, 2a | 11b20c7d1b | 2000 MW gen |
| E PCT | | | | | | BASECASE | | | | | | | | | | | | | |
| OVERLOADED ELEMENT | | | | | | pre10hs17.sav | pst10b_30.sav | pre10hs17.sav | pst10b_30c7.sav | 11b10c7d1a.sav | 11b20c7d1b.sav | 11b30c7d1c.sav | 12b40c7d1d.sav | 11b10c7d2a.sav | 11b20c7d2b.sav | 11b10c7d3a.sav | | | |
| APPT TAP2 | 115.00-APT MEM | 115.00 #1 | 1 | | NO | N RATE | E RATE | UNIT | 101.68 | 100.57 | | | | | | | | | |
| | | | | | 200 | 497.02 | 497.02 | Amps | 101.68 | | | | | | | | | | |
| | | | | | 200 | 497.02 | 497.02 | Amps | 100.57 | | | | | | | | | | |
| | | | | | 95 | 1616.58 | 1616.58 | Amps | | | | | | | | | | | |
| | | | | | 182 | 1599.85 | 1599.85 | Amps | | | | | | | | | | | |
| | | | | | 389 | 1599.85 | 1599.85 | Amps | | | | | | | | | | | |
| | | | | | 76 | 590.91 | 800.26 | Amps | 101.63 | | | | | | | | | | |
| | | | | | 89 | 778.17 | 778.17 | Amps | | | | | | | | | | | |
| | | | | | 89 | 778.17 | 778.17 | Amps | | | | | | | | | | | |
| | | | | | 85 | 448 | 448 | MVA | | | | | | | | | | | |
| | | | | | 89 | 448 | 448 | MVA | | | | | | | | | | | |
| | | | | | 95 | 448 | 448 | MVA | | | | | | | | | | | |
| | | | | | 75 | 590.91 | 800.26 | Amps | 101.27 | | | | | | | | | | |
| | | | | | 392 | 3464.1 | 3810.51 | Amps | | | | | | | | | | | |
| | | | | | 392 | 3464.1 | 3810.51 | Amps | | | | | | | | | | | |
| | | | | | 392 | 3464.1 | 3810.51 | Amps | | | | | | | | | | | |
| | | | | | 51 | 209 | 224 | MVA | | | | | | | | | | | |
| | | | | | 109 | 1600.01 | 1600.01 | Amps | | | | | | | | | | | |
| | | | | | 95 | 783.19 | 783.19 | Amps | | | | | | | | | | | |
| | | | | | 22 | 800.76 | 853.47 | Amps | | | | | | | | | | | |
| | | | | | 26 | 800.76 | 853.47 | Amps | | | | | | | | | | | |
| | | | | | 32 | 800.76 | 853.47 | Amps | | | | | | | | | | | |
| | | | | | 62 | 800.76 | 853.47 | Amps | | | | | | | | | | | |
| | | | | | 41 | 200 | 224 | MVA | 106.45 | | | | | | | | | | |
| | | | | | 49 | 200 | 224 | MVA | 134.88 | | | | | | | | | | |
| | | | | | 50 | 200 | 224 | MVA | 134.3 | | | | | | | | | | |
| | | | | | 51 | 209 | 224 | MVA | 100.56 | | | | | | | | | | |
| | | | | | 110 | 200 | 224 | MVA | 101.38 | | | | | | | | | | |
| | | | | | 395 | 3464.1 | 3810.51 | Amps | | | | | | | | | | | |
| | | | | | 395 | 3464.1 | 3810.51 | Amps | | | | | | | | | | | |
| | | | | | 395 | 3464.1 | 3810.51 | Amps | | | | | | | | | | | |
| | | | | | 381 | 3464.1 | 3810.51 | Amps | | | | | | | | | | | |
| | | | | | 381 | 3464.1 | 3810.51 | Amps | | | | | | | | | | | |
| | | | | | 381 | 3464.1 | 3810.51 | Amps | | | | | | | | | | | |
| | | | | | 14 | 1399.95 | 2035.03 | Amps | | | | | | | | | | | |
| | | | | | 320 | 560 | 560 | MVA | 100.31 | | | | | | | | | | |
| | | | | | 321 | 560 | 560 | MVA | 100.31 | | | | | | | | | | |
| | | | | | 391 | 600 | 600 | MVA | 137.4 | | | | | | | | | | |
| | | | | | 391 | 600 | 600 | MVA | 137.4 | | | | | | | | | | |
| | | | | | 95 | 717.92 | 791.92 | Amps | | | | | | | | | | | |
| | | | | | 60 | 1496 | 1647 | Amps | 124.25 | | | | | | | | | | |
| | | | | | 1496.01 | 1647 | Amps | | | | | | | | | | | | |
| | | | | | 60 | 1247 | 1677 | Amps | 122.03 | | | | | | | | | | |
| | | | | | 1250.34 | 1676.99 | Amps | | | | | | | | | | | | |
| | | | | | 59 | 1496 | 1677 | Amps | 124.24 | | | | | | | | | | |
| | | | | | 1496.01 | 1647 | Amps | | | | | | | | | | | | |
| | | | | | 59 | 1247 | 1677 | Amps | 122.02 | | | | | | | | | | |
| | | | | | 1250.34 | 1676.99 | Amps | | | | | | | | | | | | |
| | | | | | 71 | 840 | 840 | MVA | 116.01 | | | | | | | | | | |
| | | | | | 71 | 840 | 840 | MVA | 116.49 | | | | | | | | | | |
| | | | | | 95 | 783.19 | 788.25 | Amps | | | | | | | | | | | |
| | | | | | 396 | 1399.95 | 1999.95 | Amps | | | | | | | | | | | |
| | | | | | 396 | 840 | 1200 | MVA | | | | | | | | | | | |
| | | | | | 396 | 840 | 1200 | MVA | | | | | | | | | | | |
| | | | | | 153 | 280 | 280 | MVA | 103.89 | | | | | | | | | | |
| | | | | | 157 | 280 | 280 | MVA | | | | | | | | | | | |
| | | | | | 162 | 280 | 280 | MVA | 102.97 | | | | | | | | | | |
| | | | | | 163 | 280 | 280 | MVA | 110.53 | | | | | | | | | | |
| | | | | | 165 | 280 | 280 | MVA | 103.85 | | | | | | | | | | |
| | | | | | 166 | 280 | 280 | MVA | 110.78 | | | | | | | | | | |
| | | | | | 175 | 280 | 280 | MVA | | | | | | | | | | | |
| | | | | | 177 | 280 | 280 | MVA | 103.19 | | | | | | | | | | |
| | | | | | 193 | 280 | 280 | MVA | 103.09 | | | | | | | | | | |
| | | | | | 202 | 280 | 280 | MVA | 104.22 | | | | | | | | | | |
| | | | | | 212 | 280 | 280 | MVA | 103.96 | | | | | | | | | | |
| | | | | | 213 | 280 | 280 | MVA | 103.71 | | | | | | | | | | |
| | | | | | 214 | 280 | 280 | MVA | 111.12 | | | | | | | | | | |
| | | | | | 215 | 280 | 280 | MVA | 105.45 | | | | | | | | | | |
| | | | | | 216 | 280 | 280 | MVA | 106.25 | | | | | | | | | | |
| | | | | | 218 | 280 | 280 | MVA | 104.66 | | | | | | | | | | |
| | | | | | 219 | 280 | 280 | MVA | 111.21 | | | | | | | | | | |
| | | | | | 219 | 280 | 280 | MVA | 110.77 | | | | | | | | | | |
| | | | | | 220 | 280 | 280 | MVA | 103.95 | | | | | | | | | | |
| | | | | | 221 | 280 | 280 | MVA | 110.44 | | | | | | | | | | |
| | | | | | 226 | 280 | 280 | MVA | 103.33 | | | | | | | | | | |
| | | | | | 227 | 280 | 280 | MVA | 107.3 | | | | | | | | | | |
| | | | | | 229 | 280 | 280 | MVA | 103.66 | | | | | | | | | | |
| | | | | | 229 | 280 | 280 | MVA | 111.21 | | | | | | | | | | |
| | | | | | 229 | 280 | 280 | MVA | 103.05 | | | | | | | | | | |
| | | | | | 230 | 280 | 280 | MVA | 107.33 | | | | | | | | | | |
| | | | | | 231 | 280 | 280 | MVA | 112.89 | | | | | | | | | | |
| | | | | | 239 | 280 | 280 | MVA | 103.45 | | | | | | | | | | |
| | | | | | 240 | 280 | 280 | MVA | 110.33 | | | | | | | | | | |
| | | | | | 243 | 280 | 280 | MVA | 110.84 | | | | | | | | | | |
| | | | | | 251 | 280 | 280 | MVA | 115.61 | | | | | | | | | | |
| | | | | | 252 | 280 | 280 | MVA | 111.58 | | | | | | | | | | |
| | | | | | 253 | 280 | 280 | MVA | 110.96 | | | | | | | | | | |
| | | | | | 256 | 280 | 280 | MVA | 103.41 | | | | | | | | | | |
| | | | | | 260 | 280 | 280 | MVA | 103.01 | | | | | | | | | | |
| | | | | | 263 | 280 | 280 | MVA | 103.27 | | | | | | | | | | |
| | | | | | 265 | 280 | 280 | MVA | 105.72 | | | | | | | | | | |
| | | | | | 265 | 280 | 280 | MVA | 103.89 | | | | | | | | | | |

| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project | | | | | | | | | | | | | |
|---------------------------|----------------------------|---|---|-------------|---------------|---------------|-------------|----------------------|----------------------|-------------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|-----------------------|
| ZONE | (All) | At least a 3% decrease from previous case | pst10b_30 | 3000 MW gen | 70% Comp | 12b40c7d1d | 4000 MW gen | 70% Comp, 1d | | | | | | | | | |
| TYPE | (All) | Change of less than ± 3% from previous case | pst10b_30sc7 | 3000 MW gen | 70% Comp, 1a | 11b10c7d1a | 1000 MW gen | 70% Comp, 2a | | | | | | | | | |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 11b20c7d1b | 2000 MW gen | 70% Comp, 1b | 11b20c7d2b | 2000 MW gen | 70% Comp, 2b | | | | | | | | | |
| | | | 11b30c7d1c | 3000 MW gen | 70% Comp, 1c | 11b10c7d3a | 1000 MW gen | 70% Comp, 3a | | | | | | | | | |
| E PCT | | | BASECASE | | | | | | | | | | | | | | |
| OVERLOADED ELEMENT | | | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | pst10b_30.sav | pst10b_30sc7.sav | 11b10c7d1a.sav | 11b20c7d1b.sav | 11b30c7d1c.sav | 12b40c7d1d.sav | 11b10c7d2a.sav | 11b20c7d2b.sav | 11b10c7d3a.sav |
| WRAY | 230.00-WRAY | 115.00 #1 0 | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 186 | 186 | MVA | 137.2 | 140.9 | 151.25 | 152.02 | 149.75 | 127.85 | 152.63 | 151.99 | 156.26 | |
| | | | Open Line EGYCNTR 500.00-POONE 500.00 #1 | 202 | 186 | 186 | MVA | 130.35 | | | | | | 124.09 | | 148.13 | |
| | | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 186 | 186 | MVA | 138.66 | | 142.01 | 152.01 | 152.77 | 150.47 | 128.44 | 153.13 | 152.47 | 156.74 |
| | | | Open Line STORY 230.00-PAWNEE 230.00 #1 | 306 | 186 | 186 | MVA | | | 138.09 | 148.07 | 148.43 | | | 149.36 | 148.17 | 152.64 |
| | | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 186 | 186 | MVA | | | | | | | | | | 152.05 |
| | | | Open Xlmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 186 | 186 | MVA | | | | | | | | | | 152 |
| | | | Open Xlmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 186 | 186 | MVA | | | | | | | | | | 152.02 |
| | | | Open Xlmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 186 | 186 | MVA | | | | | | | | | | 152.05 |
| | | | Open Line DAVEJOHN 500.00-PAWNEE 500.00 #1 | 375 | 186 | 186 | MVA | | | | 148.03 | | | | 149.16 | 148.26 | 152.27 |
| | | | Open Xlmr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | 186 | 186 | MVA | 133.06 | 140.05 | 154.92 | 155.81 | 153.56 | 131.86 | 157.11 | 156.57 | 163.16 | |
| | | | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 186 | 186 | MVA | 143.59 | 155.76 | 156.08 | 165.17 | 171.63 | 164.67 | 154.37 | 164.55 | 154.58 | |
| | | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 186 | 186 | MVA | 132.27 | 139.05 | 149.32 | 149.73 | 148.09 | 127.36 | 149.93 | 149.92 | 152.4 | |
| | | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 186 | 186 | MVA | 131.44 | 139.51 | 149.77 | 151.01 | 149.84 | 129.74 | 151.45 | 152.13 | 154.85 | |
| | | | Open Line FT CRAIG 500.00-LUNA 500.00 #1 | 396 | 186 | 186 | MVA | | | | | | 146.2 | | 148.06 | 148.36 | 152.18 |
| | | | Open Line LUNA 500.00-WINCHSTR 500.00 #1 | 397 | 186 | 186 | MVA | 130.61 | 137.37 | | | | | | 148.19 | 152.06 | |
| | | | Open Xlmr LAMAR CO 500.00/LAMAR CO 230.00 #1 | 403 | 186 | 186 | MVA | | | | 148.29 | 148.94 | 146.09 | | | | |
| | | | Drop Generator at DJ GEN 1 16.00 #1, 500 MW Dropped | 404 | 186 | 186 | MVA | 132.41 | 138.29 | | | 148.59 | 146.38 | 124.44 | | | |
| | | | Drop Generator at LR GEN 1 16.00 #1, 500 MW Dropped | 409 | 186 | 186 | MVA | 132.46 | 138.17 | | | 148.43 | 146.19 | 124.25 | | | |
| | | | Drop Generator at PN GEN 1 18.00 #1, 300 MW Dropped | 415 | 186 | 186 | MVA | | | | | | | 123.97 | | | |
| | | | Open Xlmr LAR RIVR 500.00/LAR RIVR 345.00 #1 | 399 | 186 | 186 | MVA | | | 137.9 | | 148.78 | 148.51 | 126.26 | | | |
| | | | Drop Generator at DJ GEN 2 16.00 #1, 500 MW Dropped | 405 | 186 | 186 | MVA | 132.41 | 138.29 | | | 148.59 | 146.38 | 124.44 | | 149.37 | 148.83 |
| | | | Drop Generator at LR GEN 2 16.00 #1, 500 MW Dropped | 410 | 186 | 186 | MVA | 132.46 | 138.17 | | | 148.43 | 146.19 | 124.25 | | | |
| | | | Open Line DAVEJOHN 230.00-STEGALL 230.00 #1 | 134 | 186 | 186 | MVA | | | | | | 146.09 | 124.01 | | | |
| | | | Open Xlmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 186 | 186 | MVA | 130.23 | | | | | | | | | |
| | | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 186 | 186 | MVA | 130.32 | | | | | | | | | |
| | | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 186 | 186 | MVA | 130.32 | | | | | | | | | |
| | | | Drop Generator at DJ GEN 3 16.00 #1, 500 MW Dropped | 406 | 186 | 186 | MVA | 132.41 | 138.29 | | | | 146.38 | 124.44 | | | |
| | | | Drop Generator at LR GEN 3 16.00 #1, 500 MW Dropped | 411 | 186 | 186 | MVA | 132.46 | 138.17 | | | | 146.19 | 124.25 | | | |
| | | | Drop Generator at DJ GEN 4 16.00 #1, 500 MW Dropped | 407 | 186 | 186 | MVA | | | | | | | | 124.44 | | |
| | | | Drop Generator at LR GEN 4 16.00 #1, 500 MW Dropped | 412 | 186 | 186 | MVA | | | | | | | 124.25 | | | |

Eastern and Western Corridors - 500 kV Double Circuit Tower Line Transfer Capability Studies

All Contingencies

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | | | | | | | | | | | | |
|--|------------|-------------|--------------|------------|-------------|--------------|--|--|--|--|--|--|
| High Plains Express Contingency: | pre10hs17 | Pre Project | | | | | | | | | | |
| HPX N-2 Contingency | 12b40c7d1d | 4000 MW gen | 70% Comp, 1d | 12b60c7d1d | 6000 MW gen | 70% Comp, 1d | | | | | | |
| Change of less than ±3% from previous case | 12b45c7d1d | 4500 MW gen | 70% Comp, 1d | 12b55c7d1d | 5500 MW gen | 70% Comp, 1d | | | | | | |
| At least a 3% increase from previous case | 12b50c7d1d | 5000 MW gen | 70% Comp, 1d | 12b70c7d1d | 7000 MW gen | 70% Comp, 1d | | | | | | |
| At least a 3% decrease from previous case | 12b55c7d1d | 5500 MW gen | 70% Comp, 1d | 12b75c7d1d | 7500 MW gen | 70% Comp, 1d | | | | | | |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | | | | | | | | |
|---|--------------------|-------------|----|--------|--------|------|----------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|--|
| | | | | | | | | pre10hs17.sav | 12b40c7d1d.sav | 13b40c7d1e.sav | 13b45c7d1e.sav | 13b50c7d1e.sav | 13b55c7d1e.sav | 13b60c7d1e.sav | 13b65c7d1e.sav | 13b70c7d1e.sav | 13b75c7d1e.sav | | |
| AFT TAP2 115.00-APT MEM 115.00 #1 1 | | | | | | | | | | | | | | | | | | | |
| Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 200 497.02 497.02 Amps 101.69 | | | | | | | | | | | | | | | | | | | |
| Open Line B SANDY 500.00-BSNDYSC1 500.00 #1 205 497.02 497.02 Amps 100.57 | | | | | | | | | | | | | | | | | | | |
| Open Line WESTMESA 345.00-SANDIA 345.00 #1 95 1616.58 1616.58 Amps 105.3 | | | | | | | | | | | | | | | | | | | |
| Open Line LAR_RIVR 500.00-WRAY 500.00 #1&2 456 1599.85 1599.85 Amps 105.26 | | | | | | | | | | | | | | | | | | | |
| Open Line LUNA 345.00-DIABLO 345.00 #1 76 590.91 800.26 Amps 101.63 | | | | | | | | | | | | | | | | | | | |
| Open Line WESTMESA 345.00-SANDIA 345.00 #1 95 778.17 778.17 Amps 102.59 | | | | | | | | | | | | | | | | | | | |
| Open Line RIOPUERCO 345.00-WESTMESA 345.00 #2 89 778.17 778.17 Amps 112.66 | | | | | | | | | | | | | | | | | | | |
| Open Line B-A 345.00-NORTON 345.00 #1 85 448 448 MVA 106.58 | | | | | | | | | | | | | | | | | | | |
| Open Line RIOPUERCO 345.00-WESTMESA 345.00 #2 89 448 448 MVA 112.68 | | | | | | | | | | | | | | | | | | | |
| Open Line WESTMESA 345.00-SANDIA 345.00 #1 95 448 448 MVA 100.87 | | | | | | | | | | | | | | | | | | | |
| BECKERCK 230.00-STORY 230.00 #1 1 | | | | | | | | | | | | | | | | | | | |
| Open Line PAWNEE 500.00-B SANDY 500.00 #1&2 447 1109.52 1109.52 Amps 102.54 | | | | | | | | | | | | | | | | | | | |
| BICKNELL 345.00-BICKNELL 230.00 #1 0 | | | | | | | | | | | | | | | | | | | |
| Open Line APACHE 230.00-BUTERFLD 230.00 #1 40 150 193 MVA 106.13 | | | | | | | | | | | | | | | | | | | |
| Open Line WINCHSTR 345.00-VAIL 345.00 #1 37 150 193 MVA 105.56 | | | | | | | | | | | | | | | | | | | |
| Open Line NC1 345.00-NEWMAN 345.00 #1 75 590.91 800.26 Amps 101.27 | | | | | | | | | | | | | | | | | | | |
| Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 392 3464.1 3810.51 Amps 101.63 | | | | | | | | | | | | | | | | | | | |
| Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 392 3464.1 3810.51 Amps 101.76 | | | | | | | | | | | | | | | | | | | |
| Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 392 3464.1 3810.51 Amps 101.76 | | | | | | | | | | | | | | | | | | | |
| Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 392 3464.1 3810.51 Amps 101.76 | | | | | | | | | | | | | | | | | | | |
| BRANDOW 230.00-KYRENE 230.00 #1 1 | | | | | | | | | | | | | | | | | | | |
| Open Line RACEWAY 500.00-PNPKAPS 500.00 #1 109 1600.01 1600.01 Amps 101.45 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 345.00-PNPKAPS 345.00 #1 6 1600.01 1600.01 Amps 103.84 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 7 1600.01 1600.01 Amps 106.81 | | | | | | | | | | | | | | | | | | | |
| Open Line BROWNING 500.00-KYRENE 500.00 #1 25 1978.05 1999.89 Amps 102.82 | | | | | | | | | | | | | | | | | | | |
| Open Line WESTMESA 345.00-SANDIA 345.00 #1 95 783.19 783.19 Amps 103.01 | | | | | | | | | | | | | | | | | | | |
| BROWNING 230.00-SANTAN 230.00 #1 1 | | | | | | | | | | | | | | | | | | | |
| Open Line BROWNING 500.00-KYRENE 500.00 #1 25 1978.05 1999.89 Amps 102.78 | | | | | | | | | | | | | | | | | | | |
| CENTRALP 115.00-WESTMS 1.115.00 #1 1 | | | | | | | | | | | | | | | | | | | |
| Open Line WESTMESA 345.00-SANDIA 345.00 #1 95 783.19 783.19 Amps 107.44 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 230.00-CHOLLA 7 100.00 #1 0 | | | | | | | | | | | | | | | | | | | |
| Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 2 203 203 MVA 112.08 | | | | | | | | | | | | | | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 23 203 203 MVA 103.43 | | | | | | | | | | | | | | | | | | | |
| Open Line SPRINGR 345.00-VAIL2 345.00 #1 34 203 203 MVA 101.67 | | | | | | | | | | | | | | | | | | | |
| Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 57 203 203 MVA 103.74 | | | | | | | | | | | | | | | | | | | |
| Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 58 203 203 MVA 100.89 | | | | | | | | | | | | | | | | | | | |
| Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 59 203 203 MVA 100.89 | | | | | | | | | | | | | | | | | | | |
| Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 59 203 203 MVA 100.82 | | | | | | | | | | | | | | | | | | | |
| Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 60 203 203 MVA 100.61 | | | | | | | | | | | | | | | | | | | |
| Open Line RME 500.00-FCW 500.00 #1 71 203 203 MVA 108.43 | | | | | | | | | | | | | | | | | | | |
| Open Line LUNA 500.00-WINCHSTR 500.00 #1 397 203 203 MVA 102.26 | | | | | | | | | | | | | | | | | | | |
| Open Line SNTAROSA 230.00-DBG 230.00 #1 22 203 203 MVA 105.92 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 500.00-SAGUARO 500.00 #1 1 203 203 MVA 108.43 | | | | | | | | | | | | | | | | | | | |
| Open Line BROWNING 500.00-KYRENE 500.00 #1 25 203 203 MVA 100.63 | | | | | | | | | | | | | | | | | | | |
| Open Line VAIL 345.00-SOUTH 345.00 #1 35 203 203 MVA 102.16 | | | | | | | | | | | | | | | | | | | |
| Open Line WESTWING 345.00-PINALWES 345.00 #1 36 203 203 MVA 100.6 | | | | | | | | | | | | | | | | | | | |
| Open Line PINALWES 345.00-SOUTH 345.00 #1 38 203 203 MVA 100.98 | | | | | | | | | | | | | | | | | | | |
| Open Line GLEN PS 230.00-NAVAJO 230.00 #1 61 203 203 MVA 100.35 | | | | | | | | | | | | | | | | | | | |
| Open Line KAYENTA 230.00-SHIPROCK 230.00 #1 62 203 203 MVA 100.85 | | | | | | | | | | | | | | | | | | | |
| Open Line KAYENTA 230.00-LNGHOUSE 230.00 #1 63 203 203 MVA 101.29 | | | | | | | | | | | | | | | | | | | |
| Open Line NAVAJO 230.00-LNGHOUSE 230.00 #1 65 203 203 MVA 101.06 | | | | | | | | | | | | | | | | | | | |
| Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 186 203 203 MVA 100.84 | | | | | | | | | | | | | | | | | | | |
| Open Xfmr WINCHSTR 500.00-WINCHSTR 345.00 #1 401 203 203 MVA 100.27 | | | | | | | | | | | | | | | | | | | |
| Open Line SPRINGR 500.00-SES 500.00 #1 383 203 203 MVA 100.21 | | | | | | | | | | | | | | | | | | | |
| Open Line MOENKOPI 500.00-RME 500.00 #1 67 203 203 MVA 101.02 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 345.00-CHOLLA 7 100.00 #1 0 | | | | | | | | | | | | | | | | | | | |
| Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 2 203 203 MVA 104.01 | | | | | | | | | | | | | | | | | | | |
| Open Line MOENKOPI 500.00-YAVAPAI 500.00 #1 3 203 203 MVA 104.01 | | | | | | | | | | | | | | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 23 203 203 MVA 107 | | | | | | | | | | | | | | | | | | | |
| Open Line SPRINGR 345.00-VAIL2 345.00 #1 34 203 203 MVA 110.04 | | | | | | | | | | | | | | | | | | | |
| Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 57 203 203 MVA 108.97 | | | | | | | | | | | | | | | | | | | |
| Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 58 203 203 MVA 108.97 | | | | | | | | | | | | | | | | | | | |
| Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 59 203 203 MVA 100.85 | | | | | | | | | | | | | | | | | | | |
| Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 59 203 203 MVA 100.92 | | | | | | | | | | | | | | | | | | | |
| Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 60 203 203 MVA 100.79 | | | | | | | | | | | | | | | | | | | |
| Open Line RME 500.00-FCW 500.00 #1 71 203 203 MVA 102.45 | | | | | | | | | | | | | | | | | | | |
| Open Line CF&IFURN 230.00-COMANCHE 230.00 #1 145 203 203 MVA 105.91 | | | | | | | | | | | | | | | | | | | |
| Open Line SNTAROSA 230.00-DBG 230.00 #1 22 203 203 MVA 108.41 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 500.00-SAGUARO 500.00 #1 1 203 203 MVA 100.74 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 345.00-PNPKAPS 345.00 #1 6 203 203 MVA 102.41 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 7 203 203 MVA 109.07 | | | | | | | | | | | | | | | | | | | |
| Open Line BROWNING 500.00-KYRENE 500.00 #1 25 203 203 MVA 111.48 | | | | | | | | | | | | | | | | | | | |
| Open Line SNTAROSA 500.00-PINAL_W 500.00 #1 26 203 203 MVA 110.04 | | | | | | | | | | | | | | | | | | | |
| Open Line VAIL 345.00-SOUTH 345.00 #1 35 203 203 MVA 102.96 | | | | | | | | | | | | | | | | | | | |
| Open Line WESTWING 345.00-PINALWES 345.00 #1 36 203 203 MVA 106.31 | | | | | | | | | | | | | | | | | | | |
| Open Line PINALWES 345.00-SOUTH 345.00 #1 38 203 203 MVA 101.03 | | | | | | | | | | | | | | | | | | | |
| Open Line BUTERFLD 230.00-SAN RAF 230.00 #1 46 203 203 MVA 101.56 | | | | | | | | | | | | | | | | | | | |
| Open Line GLEN PS 230.00-NAVAJO 230.00 #1 61 203 203 MVA 100.89 | | | | | | | | | | | | | | | | | | | |
| Open Line KAYENTA 230.00-SHIPROCK 230.00 #1 62 203 203 MVA 100.29 | | | | | | | | | | | | | | | | | | | |
| Open Line KAYENTA 230.00-LNGHOUSE 230.00 #1 63 203 203 MVA 101.24 | | | | | | | | | | | | | | | | | | | |
| Open Line NAVAJO 230.00-LNGHOUSE 230.00 #1 65 203 203 MVA 101.61 | | | | | | | | | | | | | | | | | | | |
| Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 186 203 203 MVA 101.42 | | | | | | | | | | | | | | | | | | | |
| Open Line SPRINGR 500.00-SES 500.00 #1 383 203 203 MVA 101.24 | | | | | | | | | | | | | | | | | | | |
| Open Line CACTUS 230.00-PNPKAPS 230.00 #1 11 203 203 MVA 103.67 | | | | | | | | | | | | | | | | | | | |
| Open Line SILVERKG 500.00-BROWNING 500.00 #1 24 203 203 MVA 101.06 | | | | | | | | | | | | | | | | | | | |
| Open Line SPRINGR 345.00-GREENLEE 345.00 #1 33 203 203 MVA 100.37 | | | | | | | | | | | | | | | | | | | |
| Open Line MOENKOPI 500.00-RME 500.00 #1 67 203 203 MVA 102.03 | | | | | | | | | | | | | | | | | | | |
| Open Line NAVAJO 500.00-RME 500.00 #1 68 203 203 MVA 104.42 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 500.00-CHOLLA 3 100.00 #1 0 | | | | | | | | | | | | | | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 23 500 500 MVA 101.15 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 500.00-CHOLLA 6 100.00 #2 0 | | | | | | | | | | | | | | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 23 500 500 MVA 103.29 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 3 100.00-CHOLLA 345.00 #1 0 | | | | | | | | | | | | | | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 23 500 500 MVA 106.5 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 6 100.00-CHOLLA 345.00 #2 0 | | | | | | | | | | | | | | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 23 500 500 MVA 100.4 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 7 100.00-CHOLLA 230.00 #1 0 | | | | | | | | | | | | | | | | | | | |
| Open Line MOENKOPI 500.00-YAVAPAI 500.00 #1 3 203 203 MVA 102.15 | | | | | | | | | | | | | | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 23 203 203 MVA 105.66 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 345.00-PNPKAPS 345.00 #1 6 203 203 MVA 109.85 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 7 203 203 MVA 107.47 | | | | | | | | | | | | | | | | | | | |
| Open Line BROWNING 500.00-KYRENE 500.00 #1 25 203 203 MVA 111.84 | | | | | | | | | | | | | | | | | | | |
| Open Line SNTAROSA 500.00-PINAL_W 500.00 #1 26 203 203 MVA 103.16 | | | | | | | | | | | | | | | | | | | |
| Open Line VAIL 345.00-SOUTH 345.00 #1 35 203 203 MVA 107.08 | | | | | | | | | | | | | | | | | | | |
| Open Line WESTWING 345.00-PINALWES 345.00 #1 36 203 203 MVA 101.75 | | | | | | | | | | | | | | | | | | | |
| Open Line PINALWES 345.00-SOUTH 345.00 #1 38 203 203 MVA 105.01 | | | | | | | | | | | | | | | | | | | |
| Open Line BUTERFLD 230.00-SAN RAF 230.00 #1 46 203 203 MVA 109.92 | | | | | | | | | | | | | | | | | | | |
| Open Line GLEN PS 230.00-NAVAJO 230.00 #1 61 203 203 MVA 101.75 | | | | | | | | | | | | | | | | | | | |
| Open Line KAYENTA 230.00-SHIPROCK 230.00 #1 62 203 203 MVA 105.01 | | | | | | | | | | | | | | | | | | | |
| Open Line KAYENTA 230.00-LNGHOUSE 230.00 #1 63 203 203 MVA 109.01 | | | | | | | | | | | | | | | | | | | |
| Open Line NAVAJO 230.00-LNGHOUSE 230.00 #1 65 203 203 MVA 109.01 | | | | | | | | | | | | | | | | | | | |
| Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 186 203 203 MVA 102.97 | | | | | | | | | | | | | | | | | | | |
| Open Line SPRINGR 500.00-SES 500.00 #1 383 203 203 MVA 103.97 | | | | | | | | | | | | | | | | | | | |
| Open Line CACTUS 230.00-PNPKAPS 230.00 #1 11 203 203 MVA 101.14 | | | | | | | | | | | | | | | | | | | |
| Open Line SILVERKG 500.00-BROWNING 500.00 #1 24 203 203 MVA 102.15 | | | | | | | | | | | | | | | | | | | |
| Open Line SPRINGR 345.00-GREENLEE 345.00 #1 33 203 203 MVA 105.92 | | | | | | | | | | | | | | | | | | | |
| Open Line MOENKOPI 500.00-RME 500.00 #1 67 203 203 MVA 109.01 | | | | | | | | | | | | | | | | | | | |
| Open Line NAVAJO 500.00-RME 500.00 #1 68 203 203 MVA 111.9 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 500.00-CHOLLA 3 100.00 #1 0 | | | | | | | | | | | | | | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 23 500 500 MVA 101.43 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 500.00-CHOLLA 6 100.00 #2 0 | | | | | | | | | | | | | | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 23 500 500 MVA 107.81 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 3 100.00-CHOLLA 345.00 #1 0 | | | | | | | | | | | | | | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 23 500 500 MVA 108.79 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 6 100.00-CHOLLA 345.00 #2 0 | | | | | | | | | | | | | | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 23 500 500 MVA 102.15 | | | | | | | | | | | | | | | | | | | |
| CHOLLA 7 100.00-CHOLLA 230.00 #1 0 | | | | | | | | | | | | | | | | | | | |
| Open Line MOENKOPI 500.00-YAVAPAI 500.00 #1 3 203 203 MVA 105.45 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 345.00-PNPKAPS 345.00 #1 6 203 203 MVA 102.61 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 7 203 203 MVA 103.57 | | | | | | | | | | | | | | | | | | | |
| Open Line BROWNING 500.00-KYRENE 500.00 #1 25 203 203 MVA 100.4 | | | | | | | | | | | | | | | | | | | |
| Open Line SNTAROSA 500.00-PINAL_W 500.00 #1 26 203 203 MVA 102.41 | | | | | | | | | | | | | | | | | | | |
| Open Line SILVERKG 500.00-BROWNING 500.00 #1 24 203 203 MVA 103.57 | | | | | | | | | | | | | | | | | | | |
| Open Line MOENKOPI 500.00-RME 500.00 #1 67 203 203 MVA 102.41 | | | | | | | | | | | | | | | | | | | |
| COCONINO 230.00-VERDE S 230.00 #1 1 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 230.00-LEUPP 230.00 #1 12 800.76 853.47 Amps 117.94 | | | | | | | | | | | | | | | | | | | |
| COOLIDGE 230.00-SPKHILTP 230.00 #1 1 | | | | | | | | | | | | | | | | | | | |
| Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 2 800.76 853.47 Amps 120.63 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 230.00-LEUPP 230.00 #1 12 800.76 853.47 Amps 116.37 | | | | | | | | | | | | | | | | | | | |
| Open Line CHOLLA 230.00-LEUPP 230.00 #1 12 800.76 853.47 Amps 118.85 | | | | | | | | | | | | | | | | | | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | | | | | | | | | |
|--|--|------------|-------------|--------------|------------|-------------|--------------|--|--|
| | High Plains Express Contingency: | pre10hs17 | Pre Project | | | | | | |
| | HPX N-2 Contingency | 12b40c7d1d | 4000 MW gen | 70% Comp, 1d | 12b60c7d1d | 6000 MW gen | 70% Comp, 1d | | |
| | At least a 3% decrease from previous case | 12b45c7d1d | 4500 MW gen | 70% Comp, 1d | 12b65c7d1d | 6500 MW gen | 70% Comp, 1d | | |
| | Change of less than ±3% from previous case | 12b50c7d1d | 5000 MW gen | 70% Comp, 1d | 12b70c7d1d | 7000 MW gen | 70% Comp, 1d | | |
| | At least a 3% increase from previous case | 12b55c7d1d | 5500 MW gen | 70% Comp, 1d | 12b75c7d1d | 7500 MW gen | 70% Comp, 1d | | |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
|----------|---------------------------|--|-----|--------|--------|------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|--|
| | | | | | | | pre10hs17.sav | 12b40c7d1d.sav | 13b40c7d1e.sav | 13b45c7d1e.sav | 13b50c7d1e.sav | 13b55c7d1e.sav | 13b60c7d1e.sav | 13b65c7d1e.sav | 13b70c7d1e.sav | 13b75c7d1e.sav | | | | | | | | | | | | | | | | | | | | | | | | |
| GLADSTON | 115.00-SPRINGER 115.00 #1 | Open Xlfr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | 599.94 | 599.94 | Amps | 108.96 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | | | | | | | | | | | | | | | | | | | | | | |
|---|------------|-------------|--------------|------------|-------------|--------------|------------|-------------|--------------|------------|-------------|--------------|------------|-------------|--------------|--|--|--|--|--|--|--|
| High Plains Express Contingency: | pre10hs17 | Pre Project | | | | | | | | | | | | | | | | | | | | |
| HPX N-2 Contingency | 12b40c7d1d | 4000 MW gen | 70% Comp, 1d | 12b60c7d1d | 6000 MW gen | 70% Comp, 1d | 12b50c7d1d | 5000 MW gen | 70% Comp, 1d | 12b70c7d1d | 7000 MW gen | 70% Comp, 1d | 12b75c7d1d | 7500 MW gen | 70% Comp, 1d | | | | | | | |
| At least a 3% decrease from previous case | 12b50c7d1d | 5000 MW gen | 70% Comp, 1d | 12b60c7d1d | 6000 MW gen | 70% Comp, 1d | 12b70c7d1d | 7000 MW gen | 70% Comp, 1d | 12b75c7d1d | 7500 MW gen | 70% Comp, 1d | | | | | | | | | | |
| Change of less than ± 3% from previous case | 12b50c7d1d | 5000 MW gen | 70% Comp, 1d | 12b60c7d1d | 6000 MW gen | 70% Comp, 1d | 12b70c7d1d | 7000 MW gen | 70% Comp, 1d | 12b75c7d1d | 7500 MW gen | 70% Comp, 1d | | | | | | | | | | |
| At least a 3% increase from previous case | 12b50c7d1d | 5000 MW gen | 70% Comp, 1d | 12b60c7d1d | 6000 MW gen | 70% Comp, 1d | 12b70c7d1d | 7000 MW gen | 70% Comp, 1d | 12b75c7d1d | 7500 MW gen | 70% Comp, 1d | | | | | | | | | | |

| E PCT | | | | BASECASE | | | | | | | | | | | | | | | | | | |
|----------------------------------|---|-----|---------|----------|------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|---------------|--|--|
| OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 12b40c7d1d.sav | 13b40c7d1e.sav | 13b45c7d1e.sav | 13b50c7d1e.sav | 13b55c7d1e.sav | 13b60c7d1e.sav | 13b65c7d1e.sav | 13b70c7d1e.sav | 13b75c7d1e.sav | 13b80c7d1e.sav | 13b85c7d1e.sav | 13b90c7d1e.sav | 13b95c7d1e.sav | 1400c7d1e.sav | | |
| WINCHSTR 345.00-VAIL 345.00 #1 2 | Drop Generator at DJ GEN 8 16.00 #1, 500 MW Dropped | 438 | 1499.44 | 2024.91 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line PAWNEE 500.00-SES SANDY 500.00 #1#2 | 447 | 1499.44 | 2024.91 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line FT CRAIG 500.00-SPRINGR 500.00 #1#2 | 453 | 1499.44 | 2024.91 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line SPRINGR 500.00-SES 500.00 #1#2 | 454 | 1499.44 | 2024.91 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line LAR RIVR 500.00-WRAY 500.00 #1#2 | 456 | 1499.44 | 2024.91 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line WRAY 500.00-BURLNGTN 500.00 #1#2 | 457 | 1499.44 | 2024.91 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line WINCHSTR 500.00-PINAL_S 500.00 #1#2 | 465 | 1499.44 | 2024.91 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 | 2 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line MOENKOPI 500.00-YAVAPI 500.00 #1 | 3 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line FOURCORN 345.00-CHOLLA 345.00 #1 | 8 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| WINCHSTR 345.00-VAIL 345.00 #1 3 | Open Line FOURCORN 345.00-CHOLLA 345.00 #2 | 9 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |
| | Open Line PJ-MORRIS 230.00-GLADSTON 230.00 #1 | 54 | 1547.97 | 1857.56 | Amps | | | | | | | | | | | | | | | | | |

Appendix A: Power Flow Summary Results
 Eastern and Western Corridors - 500 kV Double Circuit Tower Line Transfer Capability Studies

| | |
|-------|----------------------------|
| AREA | (All) |
| ZONE | (All) |
| TYPE | (All) |
| NOTES | EMERGENCY RATING VIOLATION |

| | | | | | | | | |
|---|------------|-------------|--------------|------------|-------------|--------------|--|--|
| High Plains Express Contingency: | pre10hs17 | Pre Project | | | | | | |
| HPX N-2 Contingency | 12b40c7d1d | 4000 MW gen | 70% Comp, 1d | 12b60c7d1d | 6000 MW gen | 70% Comp, 1d | | |
| At least a 3% decrease from previous case | 12b45c7d1d | 4500 MW gen | 70% Comp, 1d | 12b65c7d1d | 6500 MW gen | 70% Comp, 1d | | |
| Change of less than ± 3% from previous case | 12b50c7d1d | 5000 MW gen | 70% Comp, 1d | 12b70c7d1d | 7000 MW gen | 70% Comp, 1d | | |
| At least a 3% increase from previous case | 12b55c7d1d | 5500 MW gen | 70% Comp, 1d | 12b75c7d1d | 7500 MW gen | 70% Comp, 1d | | |

| E PCT | | | | BASECASE | | | | | | | | | | | | | | |
|--------------------|-------------|-----------|---|---|-----|--------|--------|------|---------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|----------------|
| OVERLOADED ELEMENT | | | | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 12b40c7d1d.sav | 13b40c7d1e.sav | 13b45c7d1e.sav | 13b50c7d1e.sav | 13b55c7d1e.sav | 13b60c7d1e.sav | 13b65c7d1e.sav | 13b70c7d1e.sav | 13b75c7d1e.sav |
| WRAY | 230.00-WRAY | 115.00 #1 | 0 | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 186 | 186 | MVA | 124.09 | | | | | | | | | |
| | | | | Open Line B SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 186 | 186 | MVA | 128.44 | | | | | | | | | |
| | | | | Open Line STORY 230.00-PAWNEE 230.00 #1 | 306 | 186 | 186 | MVA | 128.33 | 130.26 | 130.16 | 130.18 | 129.03 | 127.95 | 126.43 | 125.03 | 125.06 | |
| | | | | Open Xfmr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | 186 | 186 | MVA | 131.86 | 135.81 | 135.81 | 135.82 | 134.72 | 133.57 | 132.05 | 130.34 | 130.09 | |
| | | | | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 186 | 186 | MVA | 164.67 | 129.37 | 129.36 | 129.62 | 128.87 | 128.22 | 127.1 | 125.92 | 125.84 | |
| | | | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 186 | 186 | MVA | 127.36 | | | | 126.71 | 125.65 | 124.14 | 122.59 | 122.57 | |
| | | | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 186 | 186 | MVA | 129.74 | 128.39 | 128.44 | 128.45 | 127.51 | 126.51 | 124.97 | 123.44 | 123.37 | |
| | | | | Open Line LUNA 500.00-WINCHSTR 500.00 #1 | 397 | 186 | 186 | MVA | 124.23 | | | | | | | | | |
| | | | | Open Xfmr LAMAR CO 500.00/LAMAR CO 230.00 #1 | 403 | 186 | 186 | MVA | | 128.44 | 128.15 | 128.16 | 126.67 | | | | | |
| | | | | Drop Generator at DJ GEN 1 16.00 #1, 500 MW Dropped | 404 | 186 | 186 | MVA | 124.44 | 128.02 | 127.95 | 127.99 | 126.86 | 125.73 | 124.4 | 123.18 | 123.24 | |
| | | | | Drop Generator at LR GEN 1 16.00 #1, 500 MW Dropped | 409 | 186 | 186 | MVA | 124.25 | | | 127.88 | 126.74 | 125.61 | 124.27 | 123.05 | 123.11 | |
| | | | | Drop Generator at PN GEN 1 18.00 #1, 300 MW Dropped | 415 | 186 | 186 | MVA | 123.97 | | | | | | 123.94 | 122.56 | 122.43 | |
| | | | | Open Xfmr LAR RIVR 500.00/LAR RIVR 345.00 #1 | 399 | 186 | 186 | MVA | 126.26 | 128.97 | 128.92 | 129.04 | 127.91 | 126.86 | 125.26 | 124.33 | 123.94 | |
| | | | | Drop Generator at DJ GEN 2 16.00 #1, 500 MW Dropped | 405 | 186 | 186 | MVA | 124.44 | 128.02 | 127.95 | 127.99 | 126.95 | 125.73 | 124.4 | 123.18 | 123.24 | |
| | | | | Drop Generator at LR GEN 2 16.00 #1, 500 MW Dropped | 410 | 186 | 186 | MVA | 124.25 | | | 127.88 | 126.74 | 125.61 | 124.27 | 123.05 | 123.11 | |
| | | | | Open Line DAVEJOHN 230.00-STEGALL 230.00 #1 | 134 | 186 | 186 | MVA | 124.01 | 127.99 | 127.87 | 127.85 | 126.69 | 125.5 | 123.95 | 122.36 | 122.01 | |
| | | | | Drop Generator at DJ GEN 3 16.00 #1, 500 MW Dropped | 406 | 186 | 186 | MVA | 124.44 | 128.02 | 127.95 | 127.99 | 126.86 | 125.73 | 124.4 | 123.18 | 123.24 | |
| | | | | Drop Generator at LR GEN 3 16.00 #1, 500 MW Dropped | 411 | 186 | 186 | MVA | 124.25 | | | 127.88 | 126.74 | 125.61 | 124.27 | 123.05 | 123.11 | |
| | | | | Drop Generator at DJ GEN 4 16.00 #1, 500 MW Dropped | 407 | 186 | 186 | MVA | 124.44 | 128.02 | 127.95 | 127.99 | 126.86 | 125.73 | 124.4 | 123.18 | 123.24 | |
| | | | | Drop Generator at LR GEN 4 16.00 #1, 500 MW Dropped | 412 | 186 | 186 | MVA | 124.25 | | | 127.88 | 126.74 | 125.61 | 124.27 | 123.05 | 123.11 | |
| | | | | Open Line LAMAR CO 230.00-LAMAR DC 230.00 #1 | 149 | 186 | 186 | MVA | | 128.23 | 127.95 | 127.98 | | | | | | |
| | | | | Drop Generator at BS GEN 1 18.00 #1, 300 MW Dropped | 419 | 186 | 186 | MVA | | | | | | | | | 122.3 | 122.15 |
| | | | | Drop Generator at DJ GEN 5 16.00 #1, 500 MW Dropped | 408 | 186 | 186 | MVA | | | 127.95 | 127.99 | 126.86 | 125.73 | 124.4 | 123.18 | 123.24 | |
| | | | | Drop Generator at LR GEN 5 16.00 #1, 500 MW Dropped | 413 | 186 | 186 | MVA | | | | 127.88 | 126.74 | 125.61 | 124.27 | 123.05 | 123.11 | |
| | | | | Drop Generator at DJ GEN 6 16.00 #1, 500 MW Dropped | 436 | 186 | 186 | MVA | | | | | 126.86 | 125.73 | 124.4 | 123.18 | 123.24 | |
| | | | | Drop Generator at LR GEN 6 16.00 #1, 500 MW Dropped | 441 | 186 | 186 | MVA | | | | | | 125.61 | 124.27 | 123.05 | 123.11 | |
| | | | | Open Line STEGALDC 230.00-STEGALL 230.00 #1 | 189 | 186 | 186 | MVA | | | | | | | | | | 121.96 |
| | | | | Drop Generator at DJ GEN 7 16.00 #1, 500 MW Dropped | 437 | 186 | 186 | MVA | | | | | | | 124.4 | 123.18 | 123.24 | |
| | | | | Drop Generator at LR GEN 7 16.00 #1, 500 MW Dropped | 442 | 186 | 186 | MVA | | | | | | | | 123.05 | 123.11 | |
| | | | | Drop Generator at DJ GEN 8 16.00 #1, 500 MW Dropped | 438 | 186 | 186 | MVA | | | | | | | | | | 123.24 |
| | | | | Open Line DAVEJOHN 500.00-PAWNEE 500.00 #1&2 | 446 | 186 | 186 | MVA | | 128.76 | 128.52 | 128.33 | 126.81 | | | | | |
| | | | | Open Line WRAY 500.00-BURLNGTN 500.00 #1&2 | 457 | 186 | 186 | MVA | | 157.12 | 161.01 | 166.03 | 170.29 | 175.66 | 180.05 | 184.36 | 189.06 | |
| | | | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1&2 | 458 | 186 | 186 | MVA | | 131.38 | 131.88 | 131.99 | 131.55 | 131.15 | 130.05 | 128.87 | 130.95 | |
| | | | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1&2 | 459 | 186 | 186 | MVA | | 133.12 | 133.84 | 134.23 | 134.09 | 134.02 | 133.19 | | | |

| | | | | |
|--------------|----------------------------|---|---------------|-------------------------------------|
| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project |
| ZONE | (All) | At least a 3% decrease from previous case | 12b40c7d1d | 4000 MW gen, 70% Comp, 1d |
| TYPE | (All) | Change of less than ± 3% from previous case | 14b40c7d1d-e | 4000 MW gen, 70% Comp, 1d, EPTP Sen |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 14b40c7d1d-e2 | 4000 MW gen, 70% Comp, 1d, EPTP Sen |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | |
|-------|---------------------------------------|--|-----|---------|---------|------|---------------|----------------|------------------|-------------------|
| | | | | | | | pre10hs17.sav | 12b40c7d1d.sav | 14b40c7d1d-e.sav | 14b40c7d1d-e2.sav |
| | APT TAP2 115.00-APT MEM 115.00 #1 1 | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 497.02 | 497.02 | Amps | 101.68 | | | |
| | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 497.02 | 497.02 | Amps | 100.57 | | | |
| | ASPEN 115.00-S.JOSEPH 115.00 #1 1 | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 1616.58 | 1616.58 | Amps | | 105.30 | 105.78 | 105.54 |
| | AUSTIN_N 115.00-DYER 115.00 #1 1 | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 590.91 | 800.26 | Amps | 101.63 | | | |
| | AVILA_T 115.00-NO_BERN 115.00 #1 1 | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 778.17 | 778.17 | Amps | | 102.59 | 102.67 | 102.49 |
| | B-A 115.00-NO_BERN 115.00 #1 1 | Open Line RIOPUERC 345.00-WESTMESA 345.00 #2 | 89 | 778.17 | 778.17 | Amps | | 112.66 | 112.18 | 112.07 |
| | B-A 345.00-B-A 115.00 #1 0 | Open Line B-A 345.00-NORTON 345.00 #1 | 85 | 448 | 448 | MVA | | 106.58 | 105.99 | 106.03 |
| | | Open Line RIOPUERC 345.00-WESTMESA 345.00 #2 | 89 | 448 | 448 | MVA | | 112.68 | 111.74 | 111.79 |
| | | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 448 | 448 | MVA | | 100.87 | 100.30 | 100.34 |
| | BICKNELL 345.00-BICKNELL 230.00 #1 0 | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 150 | 193 | MVA | | 106.13 | 106.10 | 106.13 |
| | BIGGS 115.00-NEWMAN 115.00 #1 1 | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 590.91 | 800.26 | Amps | 101.27 | 101.63 | 101.34 | 101.29 |
| | BOONE 500.00-GLADSTON 500.00 #1 1 | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 3464.1 | 3810.51 | Amps | | 101.76 | | |
| | BOONE 500.00-GLADSTON 500.00 #1 2 | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 3464.1 | 3810.51 | Amps | | 101.76 | | |
| | BOONE 500.00-GLADSTON 500.00 #1 3 | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 3464.1 | 3810.51 | Amps | | 101.76 | | |
| | CENTRALP 115.00-WESTMS 1 115.00 #1 1 | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 783.19 | 783.19 | Amps | | 104.10 | 104.56 | 104.31 |
| | COOLIDGE 230.00-SPKHILT 230.00 #1 1 | Open Line SNTAROSA 230.00-DBG 230.00 #1 | 22 | 800.76 | 853.47 | Amps | | 109.04 | 108.53 | 108.60 |
| | | Open Line SNTAROSA 500.00-PINAL_W 500.00 #1 | 26 | 800.76 | 853.47 | Amps | | 103.19 | | |
| | | Open Line SPRINGR 345.00-CORONADO 345.00 #1 | 32 | 800.76 | 853.47 | Amps | | 102.15 | 101.66 | 101.73 |
| | | Open Line KAYENTA 230.00-SHIPROCK 230.00 #1 | 62 | 800.76 | 853.47 | Amps | | 100.00 | | |
| | COPPERVR 345.00-COPPERVR 230.00 #1 0 | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 200 | 224 | MVA | 106.45 | 102.45 | 102.29 | 102.26 |
| | | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 200 | 224 | MVA | 134.88 | 124.17 | 124.07 | 124.10 |
| | | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 200 | 224 | MVA | 134.30 | 123.55 | 123.45 | 123.48 |
| | | Open Line MORENCI 230.00-PD-MORN 230.00 #1 | 51 | 200 | 224 | MVA | 100.59 | 100.63 | 100.56 | 100.55 |
| | | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 200 | 224 | MVA | 101.38 | | | |
| | CORONA 500.00-FT.CRAIG 500.00 #1 1 | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 3464.1 | 3810.51 | Amps | | 116.38 | 112.87 | 112.59 |
| | CORONA 500.00-FT.CRAIG 500.00 #1 2 | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 3464.1 | 3810.51 | Amps | | 116.38 | 112.87 | 112.59 |
| | CORONA 500.00-FT.CRAIG 500.00 #1 3 | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 3464.1 | 3810.51 | Amps | | 116.38 | 112.87 | 112.59 |
| | CORONA 500.00-FT.CRAIG 500.00 #2 1 | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 3464.1 | 3810.51 | Amps | | 116.38 | 112.87 | 112.59 |
| | CORONA 500.00-FT.CRAIG 500.00 #2 2 | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 3464.1 | 3810.51 | Amps | | 116.38 | 112.87 | 112.59 |
| | CORONA 500.00-FT.CRAIG 500.00 #2 3 | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 3464.1 | 3810.51 | Amps | | 116.38 | 112.87 | 112.59 |
| | DANIELPK 345.00-DANIELPK 230.00 #1 0 | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 560 | 560 | MVA | | 101.13 | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 560 | 560 | MVA | | 101.13 | | |
| | FLAGSTAF 345.00-PINPKBRB 345.00 #1 1 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1496 | 1647 | Amps | 124.25 | | | |
| | | | | 1496.01 | 1647 | Amps | | 134.62 | 135.46 | 135.40 |
| | FLAGSTAF 345.00-PINPKBRB 345.00 #1 2 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1247 | 1677 | Amps | 122.03 | | | |
| | | | | 1250.34 | 1676.99 | Amps | | 132.22 | 133.03 | 132.98 |
| | FLAGSTAF 345.00-PINPKBRB 345.00 #2 1 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1496 | 1647 | Amps | 124.24 | | | |
| | | | | 1496.01 | 1647 | Amps | | 134.62 | 135.45 | 135.40 |
| | FLAGSTAF 345.00-PINPKBRB 345.00 #2 2 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1247 | 1677 | Amps | 122.02 | | | |
| | | | | 1250.34 | 1676.99 | Amps | | 132.21 | 133.03 | 132.98 |
| | FOURC1AA 100.00-FOURCORN 500.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116.01 | | | |
| | FOURCORN 345.00-FOURC1AA 100.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 840 | 840 | MVA | 116.49 | | | |
| | FT.CRAIG 345.00-FT.CRAIG 500.00 #1 0 | Open Line FT.CRAIG 500.00-LUNA 500.00 #1 | 396 | 840 | 1200 | MVA | | 123.11 | 120.99 | 121.12 |
| | FTLUPTON 230.00-FTLUPTON 115.00 #T3 0 | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 153 | 280 | 280 | MVA | 103.89 | 109.38 | 110.13 | 110.20 |
| | | Open Line MIDWAYPS 230.00-MIDWAYBR 230.00 #1 | 156 | 280 | 280 | MVA | | | 108.65 | 108.73 |
| | | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 280 | 280 | MVA | | 107.95 | 108.66 | 108.73 |
| | | Open Line BRICKCTR 345.00-DANIELPK 345.00 #1 | 162 | 280 | 280 | MVA | 102.97 | 108.02 | 108.74 | 108.81 |
| | | Open Line BRICKCTR 345.00-DANIELPK 345.00 #2 | 163 | 280 | 280 | MVA | 102.97 | 108.02 | 108.74 | 108.81 |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 280 | 280 | MVA | 103.85 | 109.28 | 109.85 | 109.91 |
| | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 280 | 280 | MVA | 103.27 | 108.51 | 109.14 | 109.20 |
| | | Open Line B.SANDY 230.00-LINCOLNT 230.00 #1 | 175 | 280 | 280 | MVA | | 108.02 | 108.63 | 108.70 |
| | | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 280 | 280 | MVA | 103.19 | 108.22 | 108.88 | 108.95 |
| | | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 280 | 280 | MVA | 103.09 | 108.04 | 108.64 | 108.71 |
| | | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 280 | 280 | MVA | 104.22 | | 108.73 | 108.81 |
| | | Open Line ARAPAHOE 230.00-SANTEFE 230.00 #1 | 212 | 280 | 280 | MVA | 103.36 | 108.31 | 109.04 | 109.11 |
| | | Open Line BUCKLY34 230.00-SMOKYHIL 230.00 #1 | 213 | 280 | 280 | MVA | 103.71 | 108.70 | 109.43 | 109.50 |
| | | Open Line BUCKLY34 230.00-TOLGATE 230.00 #1 | 214 | 280 | 280 | MVA | 103.71 | 108.70 | 109.43 | 109.50 |
| | | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 280 | 280 | MVA | 105.45 | 111.22 | 111.97 | 112.03 |

| | | | | |
|--------------|----------------------------|---|---------------|-------------------------------------|
| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project |
| ZONE | (All) | At least a 3% decrease from previous case | 12b40c7d1d | 4000 MW gen, 70% Comp, 1d |
| TYPE | (All) | Change of less than ± 3% from previous case | 14b40c7d1d-e | 4000 MW gen, 70% Comp, 1d, EPTP Sen |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 14b40c7d1d-e2 | 4000 MW gen, 70% Comp, 1d, EPTP Sen |

| E PCT OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | |
|--------------------------------------|---|-----|--------|--------|------|---------------|----------------|------------------|-------------------|
| | | | | | | pre10hs17.sav | 12b40c7d1d.sav | 14b40c7d1d-e.sav | 14b40c7d1d-e2.sav |
| FTLUPTON 230.00-FTLUPTON 115.00#T3 0 | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 280 | 280 | MVA | 106.25 | 110.82 | 111.57 | 111.64 |
| | Open Line GREENVAL 230.00-FTLUPTON 230.00 #1 | 217 | 280 | 280 | MVA | 104.66 | 111.19 | 111.91 | 111.99 |
| | Open Line GREENVAL 230.00-SKYRANCH 230.00 #1 | 218 | 280 | 280 | MVA | 103.70 | 108.70 | 109.42 | 109.49 |
| | Open Line GREENVAL 230.00-ST.VRAIN 230.00 #1 | 219 | 280 | 280 | MVA | 103.34 | 108.59 | 109.29 | 109.35 |
| | Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 280 | 280 | MVA | 103.95 | 108.95 | 109.67 | 109.74 |
| | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 280 | 280 | MVA | 104.44 | 109.45 | 110.17 | 110.24 |
| | Open Line CHATFLD 230.00-WATERTON 230.00 #1 | 226 | 280 | 280 | MVA | 103.33 | 108.25 | 108.99 | 109.06 |
| | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 280 | 280 | MVA | 107.30 | 113.30 | 114.12 | 114.20 |
| | Open Line CHEROKEE 230.00-LACOMBE 230.00 #1 | 228 | 280 | 280 | MVA | 103.66 | 108.70 | 109.41 | 109.47 |
| | Open Line CHEROKEE 230.00-RIDGE 230.00 #1 | 229 | 280 | 280 | MVA | 103.05 | 108.05 | 108.78 | 108.85 |
| | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 280 | 280 | MVA | 107.33 | 113.03 | 113.82 | 113.89 |
| | Open Line CHEROKEE 230.00-SILVSADL 230.00 #1 | 231 | 280 | 280 | MVA | 105.39 | 109.95 | 110.70 | 110.77 |
| | Open Line DANIELPK 230.00-SANTEFE 230.00 #1 | 239 | 280 | 280 | MVA | 103.45 | 108.41 | 109.14 | 109.21 |
| | Open Line DENVTM 230.00-LACOMBE 230.00 #1 | 243 | 280 | 280 | MVA | 103.28 | 108.32 | 109.03 | 109.09 |
| | Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 280 | 280 | MVA | 115.61 | 121.66 | 122.46 | 122.54 |
| | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 280 | 280 | MVA | 111.58 | 117.30 | 118.08 | 118.16 |
| | Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 280 | 280 | MVA | 110.96 | 116.99 | 117.81 | 117.89 |
| | Open Line GREENWD 230.00-MONACO12 230.00 #1 | 256 | 280 | 280 | MVA | 103.41 | 108.34 | 109.08 | 109.14 |
| | Open Line JEWELL2 230.00-TOLGATE 230.00 #1 | 260 | 280 | 280 | MVA | 103.01 | 108.00 | 108.73 | 108.79 |
| | Open Line LEETSDAL 230.00-MONACO12 230.00 #1 | 263 | 280 | 280 | MVA | 103.27 | 108.19 | 108.93 | 109.00 |
| | Open Line LEGGETT 230.00-NIWOT 230.00 #1 | 264 | 280 | 280 | MVA | 105.72 | 111.21 | 111.95 | 112.02 |
| | Open Line LEGGETT 230.00-PLNENDSS 230.00 #1 | 265 | 280 | 280 | MVA | 103.89 | 109.38 | 110.13 | 110.20 |
| | Open Line MEADOWHL 230.00-SMOKYHIL 230.00 #1 | 270 | 280 | 280 | MVA | 103.02 | 108.02 | 108.73 | 108.80 |
| | Open Line NIWOT 230.00-ISABELLE 230.00 #1 | 272 | 280 | 280 | MVA | 108.16 | 113.62 | 114.35 | 114.42 |
| | Open Line QUINCY 230.00-SMOKYHIL 230.00 #1 | 274 | 280 | 280 | MVA | 103.24 | 108.20 | 108.90 | 108.97 |
| | Open Line QUINCY 230.00-BRICKCTR 230.00 #1 | 275 | 280 | 280 | MVA | 103.26 | 108.21 | 108.92 | 108.99 |
| | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 280 | 280 | MVA | 110.18 | 115.89 | 116.68 | 116.75 |
| | Open Line SKYRANCH 230.00-SPRUCE 230.00 #1 | 277 | 280 | 280 | MVA | 103.56 | 108.56 | 109.28 | 109.35 |
| | Open Line SKYRANCT 230.00-IMBODEN 230.00 #1 | 278 | 280 | 280 | MVA | 103.90 | 108.90 | 109.62 | 109.69 |
| | Open Line SKYRANCT 230.00-SPRUCE 230.00 #1 | 279 | 280 | 280 | MVA | 103.90 | 108.91 | 109.62 | 109.69 |
| | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 280 | 280 | MVA | 103.68 | 108.69 | 109.40 | 109.47 |
| | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 280 | 280 | MVA | 103.66 | 108.67 | 109.38 | 109.45 |
| | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 280 | 280 | MVA | 108.36 | 113.82 | 114.55 | 114.62 |
| | Open Line ST.VRAIN 230.00-SPNDLE 230.00 #1 | 286 | 280 | 280 | MVA | 107.55 | 113.52 | 114.31 | 114.39 |
| | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 280 | 280 | MVA | 117.58 | 123.55 | 124.32 | 124.39 |
| | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 280 | 280 | MVA | 114.90 | 120.95 | 121.76 | 121.83 |
| | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 280 | 280 | MVA | 103.69 | 108.70 | 109.41 | 109.48 |
| | Open Line SPRUCE 230.00-CHAMBERS 230.00 #1 | 300 | 280 | 280 | MVA | 102.92 | 107.91 | 108.62 | 108.69 |
| | Open Line SILVSADL 230.00-REUNION 230.00 #1 | 302 | 280 | 280 | MVA | 105.85 | 110.42 | 111.17 | 111.24 |
| | Open Line FULLER 230.00-DANIELPK 230.00 #1 | 307 | 280 | 280 | MVA | 102.93 | | 108.71 | 108.78 |
| | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 280 | 280 | MVA | 103.58 | 108.58 | 109.43 | 109.50 |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 280 | 280 | MVA | 105.55 | 110.47 | 111.18 | 111.25 |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 280 | 280 | MVA | 105.55 | 110.47 | 111.18 | 111.25 |
| | Open Xfmr ARAPAHOB 115.00/ARAPAHOE 230.00 #T5 | 311 | 280 | 280 | MVA | 103.65 | 108.63 | 109.36 | 109.42 |
| | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A1 | 312 | 280 | 280 | MVA | 104.29 | 109.25 | 110.02 | 110.09 |
| | Open Xfmr CHEROKEE 115.00/CHEROKEE 230.00 #A2 | 313 | 280 | 280 | MVA | 104.28 | 109.24 | 110.01 | 110.08 |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 280 | 280 | MVA | 103.11 | 108.10 | 108.79 | 108.86 |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 280 | 280 | MVA | 103.11 | 108.10 | 108.79 | 108.86 |
| | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 280 | 280 | MVA | 103.11 | 108.10 | 108.79 | 108.86 |
| | Open Xfmr DENVTM 115.00/DENVTM 230.00 #T2 | 322 | 280 | 280 | MVA | 103.70 | 108.66 | 109.39 | 109.46 |
| | Open Xfmr LEETSDAL 115.00/LEETSDAL 230.00 #T4 | 324 | 280 | 280 | MVA | 104.34 | 109.27 | 110.02 | 110.09 |
| | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 280 | 280 | MVA | 103.43 | 108.44 | 109.29 | 109.35 |
| | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #1 | 329 | 280 | 280 | MVA | 103.00 | 107.99 | 108.71 | 108.78 |
| | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #3 | 330 | 280 | 280 | MVA | 103.00 | 107.99 | 108.71 | 108.78 |
| | Open Xfmr PAWNEE 230.00/PAWNEE 345.00 #2 | 331 | 280 | 280 | MVA | 103.00 | 107.99 | 108.71 | 108.78 |
| | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T1 | 332 | 280 | 280 | MVA | 103.24 | 108.22 | 108.94 | 109.01 |
| | Open Xfmr RIDGE 115.00/RIDGE 230.00 #T2 | 333 | 280 | 280 | MVA | 103.25 | 108.23 | 108.95 | 109.01 |
| | Open Xfmr SODALAKE 115.00/SODALAKE 230.00 #T2 | 336 | 280 | 280 | MVA | 103.17 | 108.16 | 108.87 | 108.94 |

| | | | | |
|--------------|----------------------------|---|---------------|-------------------------------------|
| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project |
| ZONE | (All) | At least a 3% decrease from previous case | 12b40c7d1d | 4000 MW gen, 70% Comp, 1d |
| TYPE | (All) | Change of less than ± 3% from previous case | 14b40c7d1d-e | 4000 MW gen, 70% Comp, 1d, EPTP Sen |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 14b40c7d1d-e2 | 4000 MW gen, 70% Comp, 1d, EPTP Sen |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | | | |
|--|------------------------------|---|-----------------------------|---|--------|--------|---------------|----------------|------------------|-------------------|--------|--------|
| | | | | | | | pre10hs17.sav | 12b40c7d1d.sav | 14b40c7d1d-e.sav | 14b40c7d1d-e2.sav | | |
| FTLUPTON | 230.00-FTLUPTON 115.00 #T3 0 | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T1 | 338 | 280 | 280 | MVA | 105.81 | 110.87 | 111.59 | 111.66 | | |
| | | Open Xfmr VALMONT 115.00/VALMONT 230.00 #T2 | 339 | 280 | 280 | MVA | 105.81 | 110.87 | 111.59 | 111.66 | | |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 280 | 280 | MVA | 103.52 | 108.53 | 109.38 | 109.45 | | |
| | | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 280 | 280 | MVA | 105.92 | 110.89 | 111.63 | 111.70 | | |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #1 | 349 | 280 | 280 | MVA | 102.92 | | | | | |
| | | Open Xfmr BRICKCTR 230.00/BRICKCTR 345.00 #2 | 350 | 280 | 280 | MVA | 102.92 | | | | | |
| | | Open Xfmr BRICKCTR 115.00/BRICKCTR 230.00 #T1 | 351 | 280 | 280 | MVA | 102.96 | 107.93 | 108.64 | 108.70 | | |
| | | Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 280 | 280 | MVA | 103.01 | 108.00 | | 108.80 | | |
| | | Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 280 | 280 | MVA | | 108.00 | | | | |
| | | Open Line PAWNEE 500.00-B.SANDY 500.00 #1 | 376 | 280 | 280 | MVA | | 110.46 | 110.96 | 111.01 | | |
| | | Open Line B.SANDY 500.00-BOONE 500.00 #1 | 377 | 280 | 280 | MVA | | 109.61 | | | | |
| | | Open Line LAR.RIVR 500.00-WRAY 500.00 #1 | 389 | 280 | 280 | MVA | | 108.45 | 109.28 | 109.36 | | |
| | | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 280 | 280 | MVA | | 108.66 | 109.58 | 109.66 | | |
| | | Open Line BURLNGTN 500.00-LAMAR CO 500.00 #1 | 391 | 280 | 280 | MVA | | 108.39 | | | | |
| | | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 280 | 280 | MVA | | 108.96 | | | | |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 280 | 280 | MVA | 103.06 | | | 108.71 | | |
| | | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 280 | 280 | MVA | | | 110.33 | 110.37 | | |
| | | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 280 | 280 | MVA | | | 110.39 | 110.42 | | |
| | | Open Line SODALAKE 230.00-CHATFLD 230.00 #1 | 209 | 280 | 280 | MVA | 102.91 | | | | | |
| | | Open Line EGYCNTR 500.00-HOLCOMB 500.00 #1 | 204 | 280 | 280 | MVA | | | 108.79 | 108.84 | | |
| | | Open Line EGYCNTR 500.00-GLADSTON 500.00 #1 | 436 | 280 | 280 | MVA | | | 110.99 | 111.06 | | |
| | | Open Line MIDWAYRM 500.00-B.SANDY 500.00 #1 | 437 | 280 | 280 | MVA | | | 110.77 | 110.83 | | |
| | | GLADSTON | 115.00-SPRINGER 115.00 #1 1 | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 599.94 | 599.94 | Amps | | 135.38 | 131.12 | 130.92 |
| | | | | Open Line B-A 345.00-NORTON 345.00 #1 | 85 | 599.94 | 599.94 | Amps | | 118.96 | 115.69 | 115.53 |
| | | | | Open Line SAN_JUAN 345.00-RIOPUERCO 345.00 #1 | 113 | 599.94 | 599.94 | Amps | | 111.93 | 108.52 | 108.24 |
| Open Line CF&FURN 230.00-COMANCHE 230.00 #1 | 145 | | | 599.94 | 599.94 | Amps | | 109.94 | | 106.51 | | |
| Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | | | 599.94 | 599.94 | Amps | | 114.39 | 110.34 | 110.14 | | |
| Open Line FOURCORN 345.00-WESTMESA 345.00 #1 | 357 | | | 599.94 | 599.94 | Amps | | 110.19 | 106.82 | 106.63 | | |
| Open Line SAN_JUAN 345.00-OJO 345.00 #1 | 358 | | | 599.94 | 599.94 | Amps | | 135.98 | 133.60 | 133.47 | | |
| Open Xfmr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | | | 599.94 | 599.94 | Amps | | 108.96 | | | | |
| Open Line FT.CRAIG 500.00-LUNA 500.00 #1 | 396 | | | 599.94 | 599.94 | Amps | | 128.96 | 125.19 | 124.80 | | |
| Open Line LUNA 500.00-WINCHSTR 500.00 #1 | 397 | | | 599.94 | 599.94 | Amps | | 120.49 | 116.90 | 116.67 | | |
| Open Line WINCHSTR 500.00-PINAL_S 500.00 #1 | 398 | | | 599.94 | 599.94 | Amps | | 111.17 | 107.81 | 107.60 | | |
| Open Line SNTAROSA 500.00-PINAL_W 500.00 #1 | 26 | | | 599.94 | 599.94 | Amps | | 108.87 | 105.59 | 105.38 | | |
| Open Line SPRINGR 345.00-CORONADO 345.00 #1 | 32 | | | 599.94 | 599.94 | Amps | | 110.08 | 106.79 | 106.58 | | |
| Open Line OJO 345.00-TAOS 345.00 #1 | 92 | | | 599.94 | 599.94 | Amps | | 114.46 | 111.79 | 111.63 | | |
| Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | | | 599.94 | 599.94 | Amps | | 109.98 | 106.78 | 106.55 | | |
| Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | | | 599.94 | 599.94 | Amps | | 111.02 | | 107.50 | | |
| Open Line FT.CRAIG 345.00-WESTMESA 345.00 #1 | 368 | | | 599.94 | 599.94 | Amps | | 112.50 | 109.02 | 108.82 | | |
| Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | | | 599.94 | 599.94 | Amps | | 117.96 | 114.35 | 114.18 | | |
| Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | | | 599.94 | 599.94 | Amps | | 116.63 | 112.61 | 112.40 | | |
| Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | | | 599.94 | 599.94 | Amps | | 127.42 | 123.54 | 123.22 | | |
| Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | | | 599.94 | 599.94 | Amps | | 122.70 | 118.93 | 118.58 | | |
| Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | | | 599.94 | 599.94 | Amps | | 125.50 | 121.24 | 120.79 | | |
| Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | | | 599.94 | 599.94 | Amps | | 127.42 | 123.54 | 123.22 | | |
| Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | | | 599.94 | 599.94 | Amps | | 122.70 | 118.93 | 118.58 | | |
| Open Xfmr WINCHSTR 500.00/WINCHSTR 345.00 #1 | 401 | | | 599.94 | 599.94 | Amps | | 109.70 | 106.42 | 106.20 | | |
| Open Line AMBROSIA 230.00-WESTMESA 230.00 #1 | 83 | | | 599.94 | 599.94 | Amps | | 108.92 | | | | |
| Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | | | 599.94 | 599.94 | Amps | | 114.52 | 110.45 | 110.25 | | |
| Open Line WINCHSTR 345.00-VAIL 345.00 #1 | 37 | | | 599.94 | 599.94 | Amps | | 110.32 | 107.06 | 106.84 | | |
| Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | | | 599.94 | 599.94 | Amps | | 109.09 | 105.91 | 105.68 | | |
| Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | | | 599.94 | 599.94 | Amps | | 109.51 | 106.36 | 106.12 | | |
| Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | | | 599.94 | 599.94 | Amps | | 109.53 | 106.38 | 106.13 | | |
| Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | | | 599.94 | 599.94 | Amps | | 109.22 | 106.08 | 105.84 | | |
| Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | | | 599.94 | 599.94 | Amps | | 109.15 | 105.99 | 105.75 | | |
| Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 599.94 | 599.94 | Amps | | 116.86 | 113.23 | 112.99 | | | | |
| Open Line SPRINGR 500.00-SES 500.00 #1 | 383 | 599.94 | 599.94 | Amps | | 113.15 | 109.86 | 109.64 | | | | |
| Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 599.94 | 599.94 | Amps | | 108.92 | | | | | | |

| | | | | |
|--------------|----------------------------|---|---------------|-------------------------------------|
| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project |
| ZONE | (All) | At least a 3% decrease from previous case | 12b40c7d1d | 4000 MW gen, 70% Comp, 1d |
| TYPE | (All) | Change of less than ± 3% from previous case | 14b40c7d1d-e | 4000 MW gen, 70% Comp, 1d, EPTP Sen |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 14b40c7d1d-e2 | 4000 MW gen, 70% Comp, 1d, EPTP Sen |

| E PCT | | | | | | BASECASE | | | | |
|--|---|-------------|---------|---------|--------|----------|---------------|----------------|------------------|-------------------|
| OVERLOADED ELEMENT | | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 12b40c7d1d.sav | 14b40c7d1d-e.sav | 14b40c7d1d-e2.sav |
| GLADSTON 115.00-SPRINGER 115.00 #1 1 | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 599.94 | 599.94 | Amps | | 116.86 | 113.23 | 112.99 | |
| | Open Line FOURCORN 500.00-FCW 500.00 #1 | 66 | 599.94 | 599.94 | Amps | | 108.97 | 105.74 | 105.53 | |
| | Open Xfmr LUNA 500.00/LUNA 345.00 #1 | 400 | 599.94 | 599.94 | Amps | | 109.28 | 106.04 | 105.81 | |
| | Open Line DAVEJOHN 230.00-DIFICULT 230.00 #1 | 131 | 599.94 | 599.94 | Amps | | 110.15 | 107.04 | 106.78 | |
| GLADSTON 500.00-GUADLUPE 500.00 #1 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 3464.1 | 3810.51 | Amps | | 108.10 | 104.28 | 104.00 | |
| GLADSTON 500.00-GUADLUPE 500.00 #1 2 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 3464.1 | 3810.51 | Amps | | 108.10 | 104.28 | 104.00 | |
| GLADSTON 500.00-GUADLUPE 500.00 #1 3 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 3464.1 | 3810.51 | Amps | | 108.10 | 104.28 | 104.00 | |
| GLADSTON 500.00-GUADLUPE 500.00 #2 1 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 3464.1 | 3810.51 | Amps | | 108.10 | 104.28 | 104.00 | |
| GLADSTON 500.00-GUADLUPE 500.00 #2 2 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 3464.1 | 3810.51 | Amps | | 108.10 | 104.28 | 104.00 | |
| GLADSTON 500.00-GUADLUPE 500.00 #2 3 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 3464.1 | 3810.51 | Amps | | 108.10 | 104.28 | 104.00 | |
| GLENCANY 345.00-FLAGSTAF 345.00 #1 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1348 | 1819 | Amps | 113.38 | 122.98 | 123.77 | 123.72 | |
| GLENCANY 345.00-FLAGSTAF 345.00 #1 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1837 | 2021 | Amps | 102.05 | | | | |
| | | | 1836.99 | 2020.99 | Amps | | 110.69 | 111.40 | 111.35 | |
| GLENCANY 345.00-FLAGSTAF 345.00 #2 1 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1348 | 1819 | Amps | 113.18 | 122.77 | 123.56 | 123.51 | |
| GLENCANY 345.00-FLAGSTAF 345.00 #2 2 | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1837 | 2021 | Amps | 101.87 | | | | |
| | | | 1836.99 | 2020.99 | Amps | | 110.50 | 111.21 | 111.16 | |
| GR 115.00-VISTA # 115.00 #1 1 | Open Line CALIENTE 345.00-NC1 345.00 #1 | 74 | 590.91 | 800.26 | Amps | 149.06 | 149.81 | 149.45 | 149.37 | |
| GREEN-AE 345.00-GREEN-AE 230.00 #1 0 | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 150 | 193 | MVA | 155.75 | 142.47 | 142.35 | 142.39 | |
| | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 150 | 193 | MVA | 156.07 | 142.68 | 142.56 | 142.60 | |
| | Open Line APACHE 230.00-RED TAIL 230.00 #1 | 41 | 150 | 193 | MVA | 108.88 | 104.75 | 104.59 | 104.57 | |
| | Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 150 | 193 | MVA | 132.42 | 120.55 | 120.40 | 120.43 | |
| | Open Line GREENLEE 345.00-WINCHSTR 345.00 #1 | 110 | 150 | 193 | MVA | 103.74 | | | | |
| GUADLUPE 500.00-CORONA 500.00 #1 1 | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 3464.1 | 3810.51 | Amps | | 109.41 | 105.95 | 105.72 | |
| GUADLUPE 500.00-CORONA 500.00 #1 2 | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 3464.1 | 3810.51 | Amps | | 109.41 | 105.95 | 105.72 | |
| GUADLUPE 500.00-CORONA 500.00 #1 3 | Open Line GUADLUPE 500.00-CORONA 500.00 #2 | 394 | 3464.1 | 3810.51 | Amps | | 109.41 | 105.95 | 105.72 | |
| GUADLUPE 500.00-CORONA 500.00 #2 1 | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 3464.1 | 3810.51 | Amps | | 109.41 | 105.95 | 105.72 | |
| GUADLUPE 500.00-CORONA 500.00 #2 2 | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 3464.1 | 3810.51 | Amps | | 109.41 | 105.95 | 105.72 | |
| GUADLUPE 500.00-CORONA 500.00 #2 3 | Open Line GUADLUPE 500.00-CORONA 500.00 #1 | 380 | 3464.1 | 3810.51 | Amps | | 109.41 | 105.95 | 105.72 | |
| JLGREEN 230.00-FTLUPTON 230.00 #1 1 | Open Line BARRLAKE 230.00-GREENVAL 230.00 #1 | 215 | 1242.56 | 1242.56 | Amps | | 101.12 | 102.13 | 102.19 | |
| | Open Line BARRLAKE 230.00-REUNION 230.00 #1 | 216 | 1242.56 | 1242.56 | Amps | | | 100.93 | 100.99 | |
| | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 1242.56 | 1242.56 | Amps | | 101.03 | 102.09 | 102.16 | |
| | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 1242.56 | 1242.56 | Amps | 100.00 | 109.05 | 110.09 | 110.15 | |
| | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 1242.56 | 1242.56 | Amps | | 106.39 | 107.44 | 107.50 | |
| | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1242.56 | 1242.56 | Amps | | 101.59 | 102.51 | 102.56 | |
| | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 1242.56 | 1242.56 | Amps | | 101.89 | 102.83 | 102.88 | |
| | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 100 | 100 | MVA | 114.22 | | | | |
| | Open Line BOONE 230.00-LAMAR CO 230.00 #1 | 143 | 100 | 100 | MVA | 123.90 | | 108.03 | | |
| | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 100 | 100 | MVA | 113.02 | | | | |
| LAMAR CO 230.00-LAMAR CO 115.00 #1 0 | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 100 | 100 | MVA | 113.28 | | | | |
| | Open Line LAR.RIVR 345.00-ARCHER 345.00 #1 | 182 | 100 | 100 | MVA | | | 100.97 | | |
| | Open Line MIDWAYBR 230.00-LINCOLNT 230.00 #1 | 193 | 100 | 100 | MVA | 113.99 | | 100.77 | | |
| | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 100 | 100 | MVA | 130.65 | | 101.67 | | |
| | Open Line EGYCNTR 500.00-BOONE 500.00 #1 | 202 | 100 | 100 | MVA | 148.34 | | 106.51 | | |
| | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 100 | 100 | MVA | 129.74 | | 101.39 | | |
| | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 100 | 100 | MVA | 115.66 | | | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 100 | 100 | MVA | 112.00 | | 101.17 | | |
| | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 100 | 100 | MVA | 112.00 | | 101.17 | | |
| | Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A1 | 314 | 100 | 100 | MVA | 112.89 | | 101.59 | | |
| | Open Xfmr COMANCHE 115.00/COMANCHE 230.00 #A2 | 315 | 100 | 100 | MVA | 112.92 | | 101.62 | | |
| | Open Xfmr BOONE 115.00/BOONE 230.00 #1 | 355 | 100 | 100 | MVA | 132.53 | 114.81 | 112.72 | 104.76 | |
| | Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 100 | 100 | MVA | | | 101.66 | | |
| | Open Line DAVEJOHN 500.00-PAWNEE 500.00 #1 | 375 | 100 | 100 | MVA | | | 101.95 | | |
| | Open Line B.SANDY 500.00-BOONE 500.00 #1 | 377 | 100 | 100 | MVA | | 101.83 | | | |
| | Open Xfmr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | 100 | 100 | MVA | | | 102.91 | | |
| | Open Line LAMAR CO 500.00-GLADSTON 500.00 #1 | 392 | 100 | 100 | MVA | | 124.08 | | | |
| Open Line FT.CRAIG 500.00-LUNA 500.00 #1 | 396 | 100 | 100 | MVA | | | 101.66 | | | |
| Open Xfmr LAMAR CO 500.00/LAMAR CO 230.00 #1 | 403 | 100 | 100 | MVA | | 102.10 | | | | |
| Open Xfmr LAR.RIVR 500.00/LAR.RIVR 345.00 #1 | 399 | 100 | 100 | MVA | | | 101.11 | | | |

| | | | | |
|--------------|----------------------------|---|---------------|-------------------------------------|
| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project |
| ZONE | (All) | At least a 3% decrease from previous case | 12b40c7d1d | 4000 MW gen, 70% Comp, 1d |
| TYPE | (All) | Change of less than ± 3% from previous case | 14b40c7d1d-e | 4000 MW gen, 70% Comp, 1d, EPTP Sen |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 14b40c7d1d-e2 | 4000 MW gen, 70% Comp, 1d, EPTP Sen |

| E PCT | | | | | | BASECASE | | | | |
|--------------------|-----------------------------|---|-----------------------------|--|---------|----------|---------------|----------------|------------------|-------------------|
| OVERLOADED ELEMENT | | CONTINGENCY | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 12b40c7d1d.sav | 14b40c7d1d-e.sav | 14b40c7d1d-e2.sav |
| LAMAR CO | 230.00-LAMAR CO 115.00 #1 0 | Open Line GLADSTON 500.00-GUADLUPE 500.00 #1 | 379 | 100 | 100 | MVA | | | 101.27 | |
| | | Open Line CORONA 500.00-FT.CRAIG 500.00 #1 | 381 | 100 | 100 | MVA | | | 101.02 | |
| | | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 100 | 100 | MVA | | | 101.31 | |
| | | Open Line GLADSTON 500.00-GUADLUPE 500.00 #2 | 393 | 100 | 100 | MVA | | | 101.27 | |
| | | Open Line CORONA 500.00-FT.CRAIG 500.00 #2 | 395 | 100 | 100 | MVA | | | 101.02 | |
| | | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 100 | 100 | MVA | 112.11 | | | |
| | | Open Line BURLNGTN 500.00-BURLSC1 500.00 #1 | 199 | 100 | 100 | MVA | 114.06 | | | |
| | | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 100 | 100 | MVA | 117.32 | | | |
| | | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 100 | 100 | MVA | 118.03 | | | |
| | | Open Line LAMAR CO 230.00-EGYCNTR 230.00 #1 | 151 | 100 | 100 | MVA | | | 104.63 | |
| | | Open Line LAMAR CO 230.00-EGYCNTR 230.00 #2 | 152 | 100 | 100 | MVA | | | 104.48 | |
| | | Open Line EGYCNTR 500.00-GLADSTON 500.00 #1 | 436 | 100 | 100 | MVA | | | 136.78 | 126.95 |
| | | Open Line MIDWAYRM 500.00-B.SANDY 500.00 #1 | 437 | 100 | 100 | MVA | | | 106.53 | |
| | | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 224 | 224 | MVA | 103.32 | | | |
| LUNA | 345.00-LUNA 115.00 #1 0 | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 783.19 | 783.19 | Amps | | 111.26 | 111.84 | 111.55 |
| MARIPOSA | 115.00-WESTMS_2 115.00 #1 1 | Open Line GREENVAL 230.00-B.SANDY 230.00 #1 | 141 | 1209.93 | 1209.93 | Amps | 103.41 | | | |
| MIDWAYBR | 230.00-RD_NIXON 230.00 #1 1 | Open Line COMANCHE 230.00-WALSENGB 230.00 #1 | 148 | 1209.93 | 1209.93 | Amps | 101.85 | | | |
| | | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 1209.93 | 1209.93 | Amps | 110.61 | 101.17 | | |
| | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 1209.93 | 1209.93 | Amps | 105.66 | | | |
| | | Open Line B.SANDY 230.00-125ROAD 230.00 #1 | 177 | 1209.93 | 1209.93 | Amps | 107.21 | | | |
| | | Open Line BURLNGTN 500.00-BSNDYSC1 500.00 #1 | 200 | 1209.93 | 1209.93 | Amps | 103.44 | | | |
| | | Open Line B.SANDY 500.00-BSNDYSC1 500.00 #1 | 205 | 1209.93 | 1209.93 | Amps | 102.82 | | | |
| | | Open Line BURLSC1 500.00-HOLCOMB 500.00 #1 | 206 | 1209.93 | 1209.93 | Amps | 100.31 | | | |
| | | Open Line EGYCNTR 500.00-BURLSC2 500.00 #1 | 203 | 1209.93 | 1209.93 | Amps | 101.06 | | | |
| | | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 101.84 | 105.33 | 104.77 | 104.48 |
| | | Open Line NC1 345.00-NEWMAN 345.00 #1 | 75 | 184 | 230 | MVA | 100.98 | 103.99 | 103.53 | 103.27 |
| NEWMAN | 115.00-NEWMAN_B 345.00 #1 0 | Open Line RIOPUERC 345.00-WESTMESA 345.00 #2 | 89 | 778.17 | 778.17 | Amps | | 104.98 | 104.49 | 104.38 |
| NEWMAN_B | 345.00-NEWMAN 345.00 #1 0 | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 778.17 | 778.17 | Amps | | 110.71 | 110.82 | 110.62 |
| NO_BERN | 115.00-AVILA_T 115.00 #1 1 | Open Line FOURCORN 345.00-WESTMESA 345.00 #1 | 357 | 180 | 180 | MVA | 103.46 | | | |
| NO_BERN | 115.00-B-A 115.00 #1 1 | Open Line OJO 345.00-TAOS 345.00 #1 | 92 | 180 | 180 | MVA | 107.43 | | | |
| OJO | 345.00-OJO 115.00 #1 C | Open Line FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 676.75 | 676.75 | Amps | 105.04 | 104.33 | 104.23 | 104.19 |
| P_VALLEY | 115.00-TODD CRE 115.00 #1 1 | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 783.19 | 783.19 | Amps | | 106.51 | 107.08 | 106.80 |
| PARADIS2 | 115.00-MARIPOSA 115.00 #1 1 | Open Line RACEWAY 500.00-PNPKAPS 500.00 #r1 | 109 | 1599 | 1998.13 | Amps | 113.50 | | | |
| PNPKAPS | 230.00-PINPK 230.00 #1 1 | | | 1599.01 | 1998.13 | Amps | | 111.97 | 112.15 | 112.13 |
| | | | | | | Amps | | 101.72 | 102.19 | 101.95 |
| PRAGER | 115.00-ASPEN 115.00 #1 1 | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 1616.58 | 1616.58 | Amps | | | | |
| RD_NIXON | 230.00-MIDWAYBR 230.00 #1 1 | Open Line MIDWAYPS 230.00-MIDWAYBR 230.00 #1 | 156 | 1209.93 | 1209.93 | Amps | 104.57 | | | |
| | | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 1209.93 | 1209.93 | Amps | 135.24 | 124.34 | | |
| | | Open Line TARRYALL 230.00-HARTSELT 230.00 #1 | 161 | 1209.93 | 1209.93 | Amps | 100.11 | | | |
| | | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 1209.93 | 1209.93 | Amps | 100.60 | | | |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 1209.93 | 1209.93 | Amps | 100.04 | | | |
| | | Open Line MIDWAYPS 345.00-WATERTON 345.00 #1 | 308 | 1209.93 | 1209.93 | Amps | 108.17 | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #1 | 309 | 1209.93 | 1209.93 | Amps | 100.33 | | | |
| | | Open Line PAWNEE 345.00-BRICKCTR 345.00 #2 | 310 | 1209.93 | 1209.93 | Amps | 100.33 | | | |
| | | Open Xfmr DANIELPK 115.00/DANIELPK 230.00 #T1 | 318 | 1209.93 | 1209.93 | Amps | 100.68 | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #1 | 319 | 1209.93 | 1209.93 | Amps | 100.11 | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #2 | 320 | 1209.93 | 1209.93 | Amps | 100.11 | | | |
| | | Open Xfmr DANIELPK 230.00/DANIELPK 345.00 #3 | 321 | 1209.93 | 1209.93 | Amps | 100.11 | | | |
| | | Open Xfmr MIDWAYPS 230.00/MIDWAYPS 345.00 #T1 | 328 | 1209.93 | 1209.93 | Amps | 107.89 | | | |
| | | Open Xfmr TARRYALL 115.00/TARRYALL 230.00 #T1 | 337 | 1209.93 | 1209.93 | Amps | 100.76 | | | |
| | | Open Xfmr WATERTON 230.00/WATERTON 345.00 #T1 | 344 | 1209.93 | 1209.93 | Amps | 107.93 | | | |
| | | Open Line GLADSTON 230.00-WALSENGB 230.00 #1 | 115 | 1209.93 | 1209.93 | Amps | 100.19 | | | |
| | | Open Line B.SANDY 230.00-BEAVERCK 230.00 #1 | 176 | 1209.93 | 1209.93 | Amps | 100.27 | | | |
| | | Open Line BURLNGTN 500.00-BURLSC2 500.00 #1 | 201 | 1209.93 | 1209.93 | Amps | 100.77 | | | |
| | | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 720.93 | 982 | Amps | 100.65 | | | |
| | | ROCKISLD | 115.00-KELKER W 115.00 #1 1 | Open Line MIDWAYPS 230.00-FULLER 230.00 #1 | 157 | 798.25 | 798.25 | Amps | 100.84 | |
| ROGSWAPA | 230.00-ROGERS 230.00 #1 1 | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1099.3 | 1099.3 | Amps | 100.39 | | | |
| ROGSWAPA | 230.00-ROGERS 230.00 #2 1 | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 1099.3 | 1099.3 | Amps | 100.39 | | | |
| S_JOSEPH | 115.00-WESTMS_2 115.00 #1 1 | Open Line WESTMESA 345.00-SANDIA 345.00 #1 | 95 | 1616.58 | 1616.58 | Amps | | 110.50 | 111.01 | 110.75 |

| | | | | |
|--------------|----------------------------|---|---------------|-------------------------------------|
| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project |
| ZONE | (All) | At least a 3% decrease from previous case | 12b40c7d1d | 4000 MW gen, 70% Comp, 1d |
| TYPE | (All) | Change of less than ± 3% from previous case | 14b40c7d1d-e | 4000 MW gen, 70% Comp, 1d, EPTP Sen |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 14b40c7d1d-e2 | 4000 MW gen, 70% Comp, 1d, EPTP Sen |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | |
|-------|--------------------------------------|---|-----|---------|---------|------|---------------|----------------|------------------|-------------------|
| | | | | | | | pre10hs17.sav | 12b40c7d1d.sav | 14b40c7d1d-e.sav | 14b40c7d1d-e2.sav |
| | SHIPROCK 230.00-SHIPROCK 345.00 #1 0 | Open Line RME 500.00-FCW 500.00 #1 | 71 | 300 | 300 | MVA | | 109.31 | 104.06 | 104.23 |
| | SILVSADL 230.00-REUNION 230.00 #1 1 | Open Line GREENVAL 230.00-IMBODEN 230.00 #1 | 220 | 818.33 | 818.33 | Amps | 101.12 | | | |
| | | Open Line GREENVAL 230.00-SPRUCE 230.00 #1 | 221 | 818.33 | 818.33 | Amps | 103.75 | | | |
| | | Open Line CHEROKEE 230.00-GLENN PS 230.00 #1 | 227 | 818.33 | 818.33 | Amps | 100.96 | | | |
| | | Open Line CHEROKEE 230.00-RIVERDAL 230.00 #1 | 230 | 818.33 | 818.33 | Amps | 100.94 | | | |
| | | Open Line FTLUPTON 230.00-JLGREEN 230.00 #1 | 251 | 818.33 | 818.33 | Amps | 113.67 | 103.15 | 104.54 | 104.58 |
| | | Open Line FTLUPTON 230.00-HENRYLAK 230.00 #1 | 252 | 818.33 | 818.33 | Amps | 107.53 | | | |
| | | Open Line GLENN PS 230.00-WASHINGT 230.00 #1 | 253 | 818.33 | 818.33 | Amps | 106.41 | | | |
| | | Open Line RIVERDAL 230.00-HENRYLAK 230.00 #1 | 276 | 818.33 | 818.33 | Amps | 105.35 | | | |
| | | Open Line SKYRANCT 230.00-IMBODEN 230.00 #1 | 278 | 818.33 | 818.33 | Amps | 100.86 | | | |
| | | Open Line SKYRANCT 230.00-SPRUCE 230.00 #1 | 279 | 818.33 | 818.33 | Amps | 100.87 | | | |
| | | Open Line SMOKYHIL 230.00-SPRUCE 230.00 #2 | 280 | 818.33 | 818.33 | Amps | 101.30 | | | |
| | | Open Line SMOKYHIL 230.00-POWHATON 230.00 #1 | 281 | 818.33 | 818.33 | Amps | 101.18 | | | |
| | | Open Line ST.VRAIN 230.00-ISABELLE 230.00 #1 | 285 | 818.33 | 818.33 | Amps | 100.02 | | | |
| | | Open Line VALMONT 230.00-SPNDLE 230.00 #1 | 293 | 818.33 | 818.33 | Amps | 103.68 | | | |
| | | Open Line WASHINGT 230.00-JLGREEN 230.00 #1 | 294 | 818.33 | 818.33 | Amps | 112.44 | 101.95 | 103.34 | 103.39 |
| | | Open Line SPRUCE 230.00-POWHATON 230.00 #1 | 299 | 818.33 | 818.33 | Amps | 101.39 | | | |
| | | Open Xfmr FTLUPTON 115.00/FTLUPTON 230.00 #T3 | 323 | 818.33 | 818.33 | Amps | 100.02 | | | |
| | | Open Xfmr CHAMBERS 115.00/CHAMBERS 230.00 #1 | 348 | 818.33 | 818.33 | Amps | 102.26 | | | |
| | SPKHILTP 230.00-COOLIDGE 230.00 #1 1 | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 800.76 | 853.47 | Amps | | 116.41 | 115.91 | 115.99 |
| | | Open Line JOJOBA 500.00-KYRENE 500.00 #1 | 27 | 800.76 | 853.47 | Amps | | 107.60 | 107.10 | 107.15 |
| | | Open Line RME 500.00-FCW 500.00 #1 | 71 | 800.76 | 853.47 | Amps | | 101.03 | 100.59 | 100.65 |
| | | Open Line RACEWAY 500.00-PNPKAPS 500.00 #r1 | 109 | 800.76 | 853.47 | Amps | | 106.62 | 106.21 | 106.28 |
| | | Open Line HASSYAMP 500.00-JOJOBA 500.00 #1 | 28 | 800.76 | 853.47 | Amps | | 106.39 | 105.92 | 105.98 |
| | | Open Line CHOLLA 345.00-PNPKAPS 345.00 #1 | 6 | 800.76 | 853.47 | Amps | | 102.78 | 102.34 | 102.41 |
| | | Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 | 7 | 800.76 | 853.47 | Amps | | 103.14 | 102.71 | 102.78 |
| | | Open Line SNTAROSA 500.00-PINAL W 500.00 #1 | 26 | 800.76 | 853.47 | Amps | | | 102.50 | 102.59 |
| | | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 529.66 | 529.66 | Amps | 121.99 | 122.98 | 122.97 | 122.96 |
| | VERDE S 230.00-COCONINO 230.00 #1 1 | Open Xfmr WALSENBG 230.00/WALSENBG 115.00 #2 | 341 | 100 | 100 | MVA | | 103.57 | | |
| | WALSENBG 230.00-WALSENBG 115.00 #1 0 | Open Xfmr WALSENBG 230.00/WALSENBG 115.00 #1 | 340 | 100 | 100 | MVA | | 103.80 | | |
| | WALSENBG 230.00-WALSENBG 115.00 #2 0 | Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 | 2 | 1547.97 | 1857.56 | Amps | | 102.22 | 101.19 | 101.17 |
| | WINCHSTR 345.00-VAIL 345.00 #1 1 | Open Line MOENKOPI 500.00-YAVAPAI 500.00 #1 | 3 | 1547.97 | 1857.56 | Amps | | 101.96 | 100.94 | 100.92 |
| | | Open Line FOURCORN 345.00-CHOLLA 345.00 #1 | 8 | 1547.97 | 1857.56 | Amps | | 101.44 | 100.43 | 100.41 |
| | | Open Line FOURCORN 345.00-CHOLLA 345.00 #2 | 9 | 1547.97 | 1857.56 | Amps | | 101.43 | 100.42 | 100.40 |
| | | Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 1547.97 | 1857.56 | Amps | | 100.74 | | |
| | | Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1547.97 | 1857.56 | Amps | | 103.50 | 102.44 | 102.41 |
| | | Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 1547.97 | 1857.56 | Amps | | 100.82 | | |
| | | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | Amps | | 125.58 | 124.46 | 124.43 |
| | | Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 1547.97 | 1857.56 | Amps | | 100.78 | | |
| | | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 1547.97 | 1857.56 | Amps | | 112.65 | 111.63 | 111.61 |
| | | Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 1547.97 | 1857.56 | Amps | | 100.71 | | |
| | | Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 1547.97 | 1857.56 | Amps | | 100.71 | | |
| | | Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 1547.97 | 1857.56 | Amps | | 100.66 | | |
| | | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1547.97 | 1857.56 | Amps | | 101.02 | 100.00 | |
| | | Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1547.97 | 1857.56 | Amps | | 101.01 | | |
| | | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1547.97 | 1857.56 | Amps | | 100.96 | | |
| | | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1547.97 | 1857.56 | Amps | | 100.95 | | |
| | | Open Line RME 500.00-FCW 500.00 #1 | 71 | 1547.97 | 1857.56 | Amps | | 103.38 | 102.34 | 102.31 |
| | | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 1547.97 | 1857.56 | Amps | | 101.03 | | |
| | | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 1547.97 | 1857.56 | Amps | | 103.18 | 102.05 | 102.01 |
| | | Open Line CF&IFURN 230.00-COMANCHE 230.00 #1 | 145 | 1547.97 | 1857.56 | Amps | | 101.14 | | 100.11 |
| | | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 1547.97 | 1857.56 | Amps | | 100.92 | | |
| | | Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 1547.97 | 1857.56 | Amps | | 100.67 | | |
| | | Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 1547.97 | 1857.56 | Amps | | 100.96 | | |
| | | Open Xfmr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | 1547.97 | 1857.56 | Amps | | 100.74 | | |
| | | Open Line SNTAROSA 230.00-DBG 230.00 #1 | 22 | 1547.97 | 1857.56 | Amps | | 101.10 | 100.08 | 100.05 |
| | | Open Line WINCHSTR 500.00-PINAL S 500.00 #1 | 398 | 1547.97 | 1857.56 | Amps | | 131.20 | 129.28 | 129.29 |
| | | Open Line CHOLLA 500.00-SAGUARO 500.00 #1 | 1 | 1547.97 | 1857.56 | Amps | | 103.67 | 102.63 | 102.60 |

| | | | | |
|--------------|----------------------------|---|---------------|-------------------------------------|
| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project |
| ZONE | (All) | At least a 3% decrease from previous case | 12b40c7d1d | 4000 MW gen, 70% Comp, 1d |
| TYPE | (All) | Change of less than ± 3% from previous case | 14b40c7d1d-e | 4000 MW gen, 70% Comp, 1d, EPTP Sen |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 14b40c7d1d-e2 | 4000 MW gen, 70% Comp, 1d, EPTP Sen |

| E PCT | | | | | | | | BASECASE | | | | | | | |
|--|-------------|-----------|---------|--|---------------|---------------|-------------|--|-----------------------|-------------------------|--------------------------|------|--------|--------|--------|
| OVERLOADED ELEMENT | | | | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 12b40c7d1d.sav | 14b40c7d1d-e.sav | 14b40c7d1d-e2.sav | | | | |
| WINCHSTR | 345.00-VAIL | 345.00 #1 | 1 | Open Line YAVAPAI 500.00-WESTWING 500.00 #1 | 5 | 1547.97 | 1857.56 | Amps | 101.31 | 100.30 | 100.27 | | | | |
| | | | | Open Line CHOLLA 345.00-PNPKAPS 345.00 #1 | 6 | 1547.97 | 1857.56 | Amps | 101.05 | 100.03 | 100.01 | | | | |
| | | | | Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 | 7 | 1547.97 | 1857.56 | Amps | 101.12 | 100.09 | 100.07 | | | | |
| | | | | Open Line BROWNING 500.00-KYRENE 500.00 #1 | 25 | 1547.97 | 1857.56 | Amps | 101.73 | 100.69 | 100.67 | | | | |
| | | | | Open Line SNTAROSA 500.00-PINAL_W 500.00 #1 | 26 | 1547.97 | 1857.56 | Amps | 105.48 | 104.20 | 104.18 | | | | |
| | | | | Open Line SPRINGR 345.00-CORONADO 345.00 #1 | 32 | 1547.97 | 1857.56 | Amps | 102.52 | 101.45 | 101.43 | | | | |
| | | | | Open Line PINALWES 345.00-SOUTH 345.00 #1 | 38 | 1547.97 | 1857.56 | Amps | 102.24 | 101.44 | 101.39 | | | | |
| | | | | Open Line BUTERFLD 230.00-G.SLOAN 230.00 #1 | 44 | 1547.97 | 1857.56 | Amps | 107.60 | 106.58 | 106.56 | | | | |
| | | | | Open Line G.SLOAN 230.00-PANTANO 230.00 #1 | 45 | 1547.97 | 1857.56 | Amps | 105.73 | 104.70 | 104.68 | | | | |
| | | | | Open Line BUTERFLD 230.00-SAN RAF 230.00 #1 | 46 | 1547.97 | 1857.56 | Amps | 100.85 | | | | | | |
| | | | | Open Line PANTANO 230.00-NEWTUCSN 230.00 #1 | 52 | 1547.97 | 1857.56 | Amps | 103.64 | 102.61 | 102.59 | | | | |
| | | | | Open Line GLEN PS 230.00-NAVAJO 230.00 #1 | 61 | 1547.97 | 1857.56 | Amps | 101.12 | 100.10 | 100.07 | | | | |
| | | | | Open Line KAYENTA 230.00-SHIPROCK 230.00 #1 | 62 | 1547.97 | 1857.56 | Amps | 101.34 | 100.32 | 100.29 | | | | |
| | | | | Open Line KAYENTA 230.00-LNGHOUSE 230.00 #1 | 63 | 1547.97 | 1857.56 | Amps | 101.22 | 100.20 | 100.18 | | | | |
| | | | | Open Line NAVAJO 230.00-LNGHOUSE 230.00 #1 | 65 | 1547.97 | 1857.56 | Amps | 101.12 | 100.10 | 100.07 | | | | |
| | | | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 1547.97 | 1857.56 | Amps | 101.52 | | 100.46 | | | | |
| | | | | Open Line FT.CRAIG 345.00-WESTMESA 345.00 #1 | 368 | 1547.97 | 1857.56 | Amps | 101.40 | 100.31 | 100.29 | | | | |
| | | | | Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | 1547.97 | 1857.56 | Amps | 101.32 | 100.27 | 100.24 | | | | |
| | | | | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 1547.97 | 1857.56 | Amps | 101.37 | 100.27 | 100.24 | | | | |
| | | | | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 1547.97 | 1857.56 | Amps | 111.55 | 110.10 | 110.08 | | | | |
| | | | | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 1547.97 | 1857.56 | Amps | 101.40 | 100.37 | 100.35 | | | | |
| | | | | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 1547.97 | 1857.56 | Amps | 100.99 | | | | | | |
| | | | | Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | 1547.97 | 1857.56 | Amps | 100.83 | | | | | | |
| | | | | Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | 1547.97 | 1857.56 | Amps | 100.95 | | | | | | |
| | | | | Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | 1547.97 | 1857.56 | Amps | 100.95 | | | | | | |
| | | | | Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | 1547.97 | 1857.56 | Amps | 100.86 | | | | | | |
| | | | | Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | 1547.97 | 1857.56 | Amps | 100.82 | | | | | | |
| | | | | Open Line SPRINGR 500.00-SES 500.00 #1 | 383 | 1547.97 | 1857.56 | Amps | 103.35 | 102.33 | 102.32 | | | | |
| | | | | Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 1547.97 | 1857.56 | Amps | 100.79 | | | | | | |
| | | | | Open Line NEWTUCSN 230.00-SAHUARIT 230.00 #1 | 53 | 1547.97 | 1857.56 | Amps | 103.07 | 102.04 | 102.02 | | | | |
| | | | | Open Line SILVERKG 500.00-BROWNING 500.00 #1 | 24 | 1547.97 | 1857.56 | Amps | 101.43 | 100.40 | 100.38 | | | | |
| | | | | Open Line SAHUARIT 230.00-BICKNELL 230.00 #1 | 56 | 1547.97 | 1857.56 | Amps | 101.98 | 100.95 | 100.93 | | | | |
| | | | | Open Line MOENKOPI 500.00-RME 500.00 #1 | 67 | 1547.97 | 1857.56 | Amps | 100.92 | | | | | | |
| | | | | Open Line LUNA 345.00-AFTON 345.00 #1 | 78 | 1547.97 | 1857.56 | Amps | 101.06 | 100.02 | | | | | |
| | | | | Open Line HACKBERRY 230.00-MORENCI 230.00 #1 | 48 | 1547.97 | 1857.56 | Amps | 100.91 | | | | | | |
| | | | | Open Line DAVEJOHN 230.00-DIFICULT 230.00 #1 | 131 | 1547.97 | 1857.56 | Amps | 101.12 | 100.12 | 100.10 | | | | |
| | | | | Open Line SHIPROCK 345.00-SAN_JUAN 345.00 #1 | 105 | 1547.97 | 1857.56 | Amps | 100.64 | | | | | | |
| | | | | Open Line GUNBARRE 230.00-NIWOT 230.00 #1 | 258 | 1547.97 | 1857.56 | Amps | 100.65 | | | | | | |
| | | | | Open Line FT.CRAIG 345.00-SPRINGR 345.00 #1 | 370 | 1547.97 | 1857.56 | Amps | 100.90 | | | | | | |
| | | | | WINCHSTR | 345.00-VAIL | 345.00 #1 | 2 | Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1499.44 | 2024.91 | Amps | 115.20 | 114.18 | 114.15 |
| | | | | | | | | Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 1499.44 | 2024.91 | Amps | 103.34 | 102.41 | 102.39 |
| | | | | | | | | Open Line WINCHSTR 500.00-PINAL_S 500.00 #1 | 398 | 1499.44 | 2024.91 | Amps | 120.36 | 118.60 | 118.61 |
| | | | | | | | | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 1499.44 | 2024.91 | Amps | 102.34 | 101.00 | 100.98 |
| | | | | WINCHSTR | 345.00-VAIL | 345.00 #1 | 3 | Open Line FOURCORN 500.00-MOENKOPI 500.00 #1 | 2 | 1547.97 | 1857.56 | Amps | 102.22 | 101.19 | 101.17 |
| Open Line MOENKOPI 500.00-YAVAPAI 500.00 #1 | 3 | 1547.97 | 1857.56 | | | | | Amps | 101.96 | 100.94 | 100.92 | | | | |
| Open Line FOURCORN 345.00-CHOLLA 345.00 #1 | 8 | 1547.97 | 1857.56 | | | | | Amps | 101.44 | 100.43 | 100.41 | | | | |
| Open Line FOURCORN 345.00-CHOLLA 345.00 #2 | 9 | 1547.97 | 1857.56 | | | | | Amps | 101.43 | 100.42 | 100.40 | | | | |
| Open Line CHOLLA 230.00-LEUPP 230.00 #1 | 12 | 1547.97 | 1857.56 | | | | | Amps | 100.74 | | | | | | |
| Open Line CORONADO 500.00-SILVERKG 500.00 #1 | 23 | 1547.97 | 1857.56 | | | | | Amps | 103.50 | 102.44 | 102.41 | | | | |
| Open Line GREENLEE 345.00-COPPERVR 345.00 #1 | 29 | 1547.97 | 1857.56 | | | | | Amps | 100.82 | | | | | | |
| Open Line SPRINGR 345.00-VAIL2 345.00 #1 | 34 | 1547.97 | 1857.56 | | | | | Amps | 125.58 | 124.46 | 124.43 | | | | |
| Open Line COPPERVR 230.00-FRISCO 230.00 #1 | 39 | 1547.97 | 1857.56 | | | | | Amps | 100.78 | | | | | | |
| Open Line APACHE 230.00-BUTERFLD 230.00 #1 | 40 | 1547.97 | 1857.56 | | | | | Amps | 112.65 | 111.63 | 111.61 | | | | |
| Open Line GREEN-AE 345.00-GREENLEE 345.00 #1 | 49 | 1547.97 | 1857.56 | | | | | Amps | 100.71 | | | | | | |
| Open Line MORENCI 230.00-GREEN-AE 230.00 #1 | 50 | 1547.97 | 1857.56 | | | | | Amps | 100.71 | | | | | | |
| Open Line PD-MORNC 230.00-FRISCO 230.00 #1 | 54 | 1547.97 | 1857.56 | | | | | Amps | 100.66 | | | | | | |
| Open Line FLAGSTAF 345.00-GLENCANY 345.00 #1 | 57 | 1547.97 | 1857.56 | | | | | Amps | 101.02 | 100.00 | | | | | |
| Open Line FLAGSTAF 345.00-GLENCANY 345.00 #2 | 58 | 1547.97 | 1857.56 | | | | | Amps | 101.01 | | | | | | |

| | | | | |
|--------------|----------------------------|---|---------------|-------------------------------------|
| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project |
| ZONE | (All) | At least a 3% decrease from previous case | 12b40c7d1d | 4000 MW gen, 70% Comp, 1d |
| TYPE | (All) | Change of less than ± 3% from previous case | 14b40c7d1d-e | 4000 MW gen, 70% Comp, 1d, EPTP Sen |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 14b40c7d1d-e2 | 4000 MW gen, 70% Comp, 1d, EPTP Sen |

| E PCT | OVERLOADED ELEMENT | CONTINGENCY | NO | N RATE | E RATE | UNIT | BASECASE | | | |
|--|-----------------------------|--|---------|---------|---------|--------|---------------|----------------|------------------|-------------------|
| | | | | | | | pre10hs17.sav | 12b40c7d1d.sav | 14b40c7d1d-e.sav | 14b40c7d1d-e2.sav |
| WINCHSTR | 345.00-VAIL 345.00 #1 3 | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #1 | 59 | 1547.97 | 1857.56 | Amps | 100.96 | | | |
| | | Open Line FLAGSTAF 345.00-PINPKBRB 345.00 #2 | 60 | 1547.97 | 1857.56 | Amps | 100.95 | | | |
| | | Open Line RME 500.00-FCW 500.00 #1 | 71 | 1547.97 | 1857.56 | Amps | 103.38 | 102.34 | 102.31 | |
| | | Open Line LUNA 345.00-DIABLO 345.00 #1 | 76 | 1547.97 | 1857.56 | Amps | 101.03 | | | |
| | | Open Line B-A 345.00-GUADLUPE 345.00 #1 | 84 | 1547.97 | 1857.56 | Amps | 103.18 | 102.05 | 102.01 | |
| | | Open Line CF&IFURN 230.00-COMANCHE 230.00 #1 | 145 | 1547.97 | 1857.56 | Amps | 101.14 | | 100.11 | |
| | | Open Line COMANCHE 230.00-WALSENBG 230.00 #1 | 148 | 1547.97 | 1857.56 | Amps | 100.92 | | | |
| | | Open Xfmr HENRYLAK 115.00/HENRYLAK 230.00 #1 | 352 | 1547.97 | 1857.56 | Amps | 100.67 | | | |
| | | Open Xfmr GLADSTON 500.00/GLADSTON 230.00 #1 | 374 | 1547.97 | 1857.56 | Amps | 100.96 | | | |
| | | Open Xfmr PAWNEE 500.00/PAWNEE 230.00 #1 | 387 | 1547.97 | 1857.56 | Amps | 100.74 | | | |
| | | Open Line SNTAROSA 230.00-DBG 230.00 #1 | 22 | 1547.97 | 1857.56 | Amps | 101.10 | 100.08 | 100.05 | |
| | | Open Line WINCHSTR 500.00-PINAL S 500.00 #1 | 398 | 1547.97 | 1857.56 | Amps | 131.20 | 129.28 | 129.29 | |
| | | Open Line CHOLLA 500.00-SAGUARO 500.00 #1 | 1 | 1547.97 | 1857.56 | Amps | 103.67 | 102.63 | 102.60 | |
| | | Open Line YAVAPAI 500.00-WESTWING 500.00 #1 | 5 | 1547.97 | 1857.56 | Amps | 101.31 | 100.30 | 100.27 | |
| | | Open Line CHOLLA 345.00-PNPKAPS 345.00 #1 | 6 | 1547.97 | 1857.56 | Amps | 101.05 | 100.03 | 100.01 | |
| | | Open Line CHOLLA 345.00-PRECHCYN 345.00 #1 | 7 | 1547.97 | 1857.56 | Amps | 101.12 | 100.09 | 100.07 | |
| | | Open Line BROWNING 500.00-KYRENE 500.00 #1 | 25 | 1547.97 | 1857.56 | Amps | 101.73 | 100.69 | 100.67 | |
| | | Open Line SNTAROSA 500.00-PINAL W 500.00 #1 | 26 | 1547.97 | 1857.56 | Amps | 105.48 | 104.20 | 104.18 | |
| | | Open Line SPRINGR 345.00-CORONADO 345.00 #1 | 32 | 1547.97 | 1857.56 | Amps | 102.52 | 101.45 | 101.43 | |
| | | Open Line PINALWES 345.00-SOUTH 345.00 #1 | 38 | 1547.97 | 1857.56 | Amps | 102.24 | 101.44 | 101.39 | |
| | | Open Line BUTERFLD 230.00-G.SLOAN 230.00 #1 | 44 | 1547.97 | 1857.56 | Amps | 107.60 | 106.58 | 106.56 | |
| | | Open Line G.SLOAN 230.00-PANTANO 230.00 #1 | 45 | 1547.97 | 1857.56 | Amps | 105.73 | 104.70 | 104.68 | |
| | | Open Line BUTERFLD 230.00-SAN RAF 230.00 #1 | 46 | 1547.97 | 1857.56 | Amps | 100.85 | | | |
| | | Open Line PANTANO 230.00-NEWTUCSN 230.00 #1 | 52 | 1547.97 | 1857.56 | Amps | 103.64 | 102.61 | 102.59 | |
| | | Open Line GLEN PS 230.00-NAVAJO 230.00 #1 | 61 | 1547.97 | 1857.56 | Amps | 101.12 | 100.10 | 100.07 | |
| | | Open Line KAYENTA 230.00-SHIPROCK 230.00 #1 | 62 | 1547.97 | 1857.56 | Amps | 101.34 | 100.32 | 100.29 | |
| | | Open Line KAYENTA 230.00-LNGHOUSE 230.00 #1 | 63 | 1547.97 | 1857.56 | Amps | 101.22 | 100.20 | 100.18 | |
| | | Open Line NAVAJO 230.00-LNGHOUSE 230.00 #1 | 65 | 1547.97 | 1857.56 | Amps | 101.12 | 100.10 | 100.07 | |
| | | Open Line SIDNEY 230.00-SIDNEYDC 230.00 #1 | 186 | 1547.97 | 1857.56 | Amps | 101.52 | | 100.46 | |
| | | Open Line FT.CRAIG 345.00-WESTMESA 345.00 #1 | 368 | 1547.97 | 1857.56 | Amps | 101.40 | 100.31 | 100.29 | |
| | | Open Xfmr FT.CRAIG 500.00/FT.CRAIG 345.00 #1 | 372 | 1547.97 | 1857.56 | Amps | 101.32 | 100.27 | 100.24 | |
| | | Open Xfmr GUADLUPE 500.00/GUADLUPE 345.00 #1 | 373 | 1547.97 | 1857.56 | Amps | 101.37 | 100.27 | 100.24 | |
| | | Open Line FT.CRAIG 500.00-SPRINGR 500.00 #1 | 382 | 1547.97 | 1857.56 | Amps | 111.55 | 110.10 | 110.08 | |
| | | Open Line NEWMAN 345.00-AFTON 345.00 #1 | 80 | 1547.97 | 1857.56 | Amps | 101.40 | 100.37 | 100.35 | |
| | | Open Line GLADSTON 230.00-WALSENBG 230.00 #1 | 115 | 1547.97 | 1857.56 | Amps | 100.99 | | | |
| | | Open Line CASPERPP 230.00-RIVERTON 230.00 #1 | 126 | 1547.97 | 1857.56 | Amps | 100.83 | | | |
| | | Open Line DAVEJO&1 230.00-DAVEJOHN 230.00 #1 | 129 | 1547.97 | 1857.56 | Amps | 100.95 | | | |
| | | Open Line DAVEJO&1 230.00-SPENCE 230.00 #1 | 130 | 1547.97 | 1857.56 | Amps | 100.95 | | | |
| | | Open Line MUSTANG 230.00-SPENCE 230.00 #1 | 135 | 1547.97 | 1857.56 | Amps | 100.86 | | | |
| | | Open Line RIVERTON 230.00-WYOPO 230.00 #1 | 137 | 1547.97 | 1857.56 | Amps | 100.82 | | | |
| | | Open Line SPRINGR 500.00-SES 500.00 #1 | 383 | 1547.97 | 1857.56 | Amps | 103.35 | 102.33 | 102.32 | |
| | | Open Xfmr DAVEJOHN 500.00/DAVEJOHN 230.00 #1 | 386 | 1547.97 | 1857.56 | Amps | 100.79 | | | |
| | | Open Line NEWTUCSN 230.00-SAHUARIT 230.00 #1 | 53 | 1547.97 | 1857.56 | Amps | 103.07 | 102.04 | 102.02 | |
| | | Open Line SILVERKG 500.00-BROWNING 500.00 #1 | 24 | 1547.97 | 1857.56 | Amps | 101.43 | 100.40 | 100.38 | |
| | | Open Line SAHUARIT 230.00-BICKNELL 230.00 #1 | 56 | 1547.97 | 1857.56 | Amps | 101.98 | 100.95 | 100.93 | |
| Open Line MOENKOPI 500.00-RME 500.00 #1 | 67 | 1547.97 | 1857.56 | Amps | 100.92 | | | | | |
| Open Line LUNA 345.00-AFTON 345.00 #1 | 78 | 1547.97 | 1857.56 | Amps | 101.06 | 100.02 | | | | |
| Open Line HACKBERY 230.00-MORENCI 230.00 #1 | 48 | 1547.97 | 1857.56 | Amps | 100.91 | | | | | |
| Open Line DAVEJOHN 230.00-DIFICULT 230.00 #1 | 131 | 1547.97 | 1857.56 | Amps | 101.12 | 100.12 | 100.10 | | | |
| Open Line SHIPROCK 345.00-SAN JUAN 345.00 #1 | 105 | 1547.97 | 1857.56 | Amps | 100.64 | | | | | |
| Open Line GUNBARRE 230.00-NIWOT 230.00 #1 | 258 | 1547.97 | 1857.56 | Amps | 100.65 | | | | | |
| Open Line FT.CRAIG 345.00-SPRINGR 345.00 #1 | 370 | 1547.97 | 1857.56 | Amps | 100.90 | | | | | |
| WINCHSTR | 345.00-WINCHSTR 500.00 #1 0 | Open Line WINCHSTR 500.00-PINAL S 500.00 #1 | 398 | 840 | 1200 | MVA | 101.52 | 100.09 | 100.15 | |
| WRAY | 230.00-N.YUMA 230.00 #1 1 | Open Line WRAY 500.00-BURLNGTN 500.00 #1 | 390 | 705.37 | 705.37 | Amps | 110.82 | 110.48 | 110.50 | |
| WRAY | 230.00-WRAY 115.00 #1 0 | Open Line DANIELPK 345.00-SQUIRLCR 345.00 #1 | 165 | 186 | 186 | MVA | 124.69 | 122.33 | 122.89 | |
| | | Open Line DANIELPK 345.00-COMANCHE 345.00 #2 | 166 | 186 | 186 | MVA | 124.13 | 121.79 | 122.34 | |
| | | Open Line BURLNGTN 230.00-WRAY 230.00 #1 | 178 | 186 | 186 | MVA | 125.88 | 123.62 | 124.15 | |
| | | Open Line WESTHILL 230.00-STEGALL 230.00 #1 | 179 | 186 | 186 | MVA | 124.06 | 121.75 | 122.29 | |

| | | | | |
|--------------|----------------------------|---|---------------|-------------------------------------|
| AREA | (All) | High Plains Express Contingency | pre10hs17 | Pre Project |
| ZONE | (All) | At least a 3% decrease from previous case | 12b40c7d1d | 4000 MW gen, 70% Comp, 1d |
| TYPE | (All) | Change of less than ± 3% from previous case | 14b40c7d1d-e | 4000 MW gen, 70% Comp, 1d, EPTP Sen |
| NOTES | EMERGENCY RATING VIOLATION | At least a 3% increase from previous case | 14b40c7d1d-e2 | 4000 MW gen, 70% Comp, 1d, EPTP Sen |

| E PCT | | | | | BASECASE | | | | | | | |
|--------------------|----------------------------|--------------------------|------------|--|----------|--------|--------|------|---------------|----------------|------------------|-------------------|
| OVERLOADED ELEMENT | | | | | NO | N RATE | E RATE | UNIT | pre10hs17.sav | 12b40c7d1d.sav | 14b40c7d1d-e.sav | 14b40c7d1d-e2.sav |
| WRAY | 230.00-WRAY | 115.00 #1 | 0 | | 180 | 186 | 186 | MVA | 124.87 | 122.51 | 123.07 | |
| | Open Line LAR.RIVR | 230.00-STEGALL | 230.00 #1 | | 181 | 186 | 186 | MVA | 124.74 | 122.32 | 122.87 | |
| | Open Line ARCHER | 345.00-STORY | 345.00 #1 | | 182 | 186 | 186 | MVA | 126.84 | 124.07 | 124.74 | |
| | Open Line LAR.RIVR | 345.00-ARCHER | 345.00 #1 | | 184 | 186 | 186 | MVA | 138.45 | 134.83 | 135.65 | |
| | Open Line N.YUMA | 230.00-WRAY | 230.00 #1 | | 187 | 186 | 186 | MVA | 127.98 | 125.60 | 126.15 | |
| | Open Line SIDNEY | 230.00-STEGALL | 230.00 #1 | | 191 | 186 | 186 | MVA | 124.74 | 122.32 | 122.87 | |
| | Open Line STORY | 345.00-ARCHER | 345.00 #1 | | 200 | 186 | 186 | MVA | 127.85 | 124.24 | 124.97 | |
| | Open Line BURLNGTN | 500.00-BSNDYSC1 | 500.00 #1 | | 202 | 186 | 186 | MVA | 124.09 | | | |
| | Open Line EGYCNTR | 500.00-BOONE | 500.00 #1 | | 205 | 186 | 186 | MVA | 128.44 | 125.09 | 125.74 | |
| | Open Line B.SANDY | 500.00-BSNDYSC1 | 500.00 #1 | | 308 | 186 | 186 | MVA | | 121.74 | 122.29 | |
| | Open Line MIDWAYPS | 345.00-WATERTON | 345.00 #1 | | 328 | 186 | 186 | MVA | | 121.75 | 122.29 | |
| | Open Xfmr MIDWAYPS | 230.00/MIDWAYPS | 345.00 #T1 | | 344 | 186 | 186 | MVA | | 121.85 | 122.38 | |
| | Open Xfmr WATERTON | 230.00/WATERTON | 345.00 #T1 | | 387 | 186 | 186 | MVA | 131.86 | 129.35 | 130.01 | |
| | Open Xfmr PAWNEE | 500.00/PAWNEE | 230.00 #1 | | 390 | 186 | 186 | MVA | 164.67 | 165.09 | 165.08 | |
| | Open Line WRAY | 500.00-BURLNGTN | 500.00 #1 | | 391 | 186 | 186 | MVA | 127.36 | | | |
| | Open Line BURLNGTN | 500.00-LAMAR CO | 500.00 #1 | | 392 | 186 | 186 | MVA | 129.74 | | | |
| | Open Line LAMAR CO | 500.00-GLADSTON | 500.00 #1 | | 397 | 186 | 186 | MVA | 124.23 | 121.99 | 122.53 | |
| | Open Line LUNA | 500.00-WINCHSTR | 500.00 #1 | | 404 | 186 | 186 | MVA | 124.44 | 122.64 | 123.01 | |
| | Drop Generator at DJ GEN 1 | 16.00 #1, 500 MW Dropped | | | 409 | 186 | 186 | MVA | 124.25 | 122.45 | 122.81 | |
| | Drop Generator at LR GEN 1 | 16.00 #1, 500 MW Dropped | | | 415 | 186 | 186 | MVA | 123.97 | 121.89 | 122.34 | |
| | Drop Generator at PN GEN 1 | 18.00 #1, 300 MW Dropped | | | 399 | 186 | 186 | MVA | 126.26 | 123.39 | 124.09 | |
| | Open Xfmr LAR.RIVR | 500.00/LAR.RIVR | 345.00 #1 | | 405 | 186 | 186 | MVA | 124.44 | 122.64 | 123.01 | |
| | Drop Generator at DJ GEN 2 | 16.00 #1, 500 MW Dropped | | | 410 | 186 | 186 | MVA | 124.25 | 122.45 | 122.81 | |
| | Drop Generator at LR GEN 2 | 16.00 #1, 500 MW Dropped | | | 134 | 186 | 186 | MVA | 124.01 | 121.68 | 122.23 | |
| | Open Line DAVEJOHN | 230.00-STEGALL | 230.00 #1 | | 406 | 186 | 186 | MVA | 124.44 | 122.64 | 123.01 | |
| | Drop Generator at DJ GEN 3 | 16.00 #1, 500 MW Dropped | | | 411 | 186 | 186 | MVA | 124.25 | 122.45 | 122.81 | |
| | Drop Generator at LR GEN 3 | 16.00 #1, 500 MW Dropped | | | 201 | 186 | 186 | MVA | | 125.42 | 125.74 | |
| | Open Line BURLNGTN | 500.00-BURLSC2 | 500.00 #1 | | 203 | 186 | 186 | MVA | | 124.43 | 124.79 | |
| | Open Line EGYCNTR | 500.00-BURLSC2 | 500.00 #1 | | 407 | 186 | 186 | MVA | 124.44 | 122.64 | 123.01 | |
| | Drop Generator at DJ GEN 4 | 16.00 #1, 500 MW Dropped | | | 412 | 186 | 186 | MVA | 124.25 | 122.45 | 122.81 | |
| | Drop Generator at LR GEN 4 | 16.00 #1, 500 MW Dropped | | | 436 | 186 | 186 | MVA | | 126.30 | 127.02 | |
| | Open Line EGYCNTR | 500.00-GLADSTON | 500.00 #1 | | | | | | | | | |