

| Alternative TR1AE - 0 MW at Calumet<br>(Peak Load) |   |                            | 2nd SLV-Poncha single circuit 230kV Line<br>Extended to Malta with Poncha 230/115 kV<br>Transformer<br>Calumet-Comanche double circuit 345kV |       |       |
|--|---|----------------------------|--|-------|-------|
| Loaded Element                                     | Contingency                                 | Injection Level in Calumet | 0  | 0     | 0     |
|  |   | Injection Level in SLV     | 825  | 850   | 875   |
|  |   | Rating (MVA)               | Percent Overload (%)   |       |       |
| 70197 GEORGETN 115<br>70218 HENDERPS 115 1         | 70156 DILLON 230<br>70072 CABINCRK 230 1    | 80                         | 107.9  | 109.8 | 111.7 |
| 70086 CANONCTY 115<br>70390 SKALA 115 1            | 73413 MIDWAYBR 230<br>73551 W CANON 230 1   | 122                        | 0.0  | 0.0   | 102.8 |
| 73412 MIDWAYBR 115<br>73413 MIDWAYBR 230 1         | 73413 MIDWAYBR 230<br>73419 RD NIXON 230 1  | 100                        | 109.9  | 110.3 | 110.8 |
| 79020 CURECANT 115<br>79192 SOCANAL 115 1          | 79021 CURECANT 230<br>79045 LOSTCANY 230 1  | 133                        | 0.0  | 0.0   | 100.1 |
| 70121 COMANCHE 115<br>70122 COMANCHE 230 T1        | 70121 COMANCHE 115<br>70122 COMANCHE 230 T2 | 176                        | 118.3  | 118.0 | 117.8 |
| 70374 SANLSVLY 115<br>70375 SANLSVLY 230 T1        | 70374 SANLSVLY 115<br>70375 SANLSVLY 230 T2 | 150                        | 103.5  | 104.8 | 106.2 |
| 70121 COMANCHE 115<br>70122 COMANCHE 230 T2        | 70121 COMANCHE 115<br>70122 COMANCHE 230 T1 | 185                        | 112.9  | 112.6 | 112.4 |
| 70374 SANLSVLY 115<br>70375 SANLSVLY 230 T2        | 70374 SANLSVLY 115<br>70375 SANLSVLY 230 T1 | 150                        | 103.5  | 104.8 | 106.2 |

| Alternative TR1AE - 0 MW at Calumet<br>(Light Load) |  |                            | 2nd SLV-Poncha single circuit 230kV Line<br>Extended to Malta with Poncha 230/115 kV<br>Transformer<br>Calumet-Comanche double circuit 345kV |       |       |
|---|--|----------------------------|--|-------|-------|
| Loaded Element                                      | Contingency                                | Injection Level in Calumet | 0  | 0     | 0     |
|   |  | Injection Level in SLV     | 725  | 750   | 775   |
|   |  | Rating (MVA)               | Percent Overload (%)   |       |       |
| 70072 CABINCRK 230<br>70156 DILLON 230 1            | 70274 MALTA 230<br>70927 HARTSELT 230 1    | 478                        | 0.0  | 0.0   | 101.1 |
| 70197 GEORGETN 115<br>70218 HENDERPS 115 1          | 70156 DILLON 230<br>70072 CABINCRK 230 1   | 80                         | 0.0  | 143.0 | 145.1 |
| 70072 CABINCRK 230<br>70266 LOOKOUT 230 1           | 70072 CABINCRK 230<br>70237 IDAHOSPG 230 1 | 478                        | 0.0  | 0.0   | 100.5 |
| 70030 PORTLAND 115<br>70390 SKALA 115 1             | 73413 MIDWATBR 230<br>73551 W CANON 230 1  | 122                        | 0.0  | 0.0   | 100.0 |
| 70086 CANONCTY 115<br>70390 SKALA 115 1             | 73413 MIDWATBR 230<br>73551 W CANON 230 1  | 122                        | 0.0  | 100.7 | 103.6 |
| 70330 PORTLAND 115<br>70456 W.STATON 115 1          | 73413 MIDWATBR 230<br>73551 W CANON 230 1  | 80                         | 0.0  | 100.5 | 105.0 |

| Alternative TR1AE - 850 MW at SLV<br>(Peak Load) |  |                            | 2nd SLV-Poncha single circuit 230kV Line Extended<br>to Malta with Poncha 230/115 kV Transformer<br>Calumet-Comanche double circuit 345kV |       |       |       |
|--|--|----------------------------|---|-------|-------|-------|
| Loaded Element                                   | Contingency                                | Injection Level in Calumet | 0   | 275   | 300   | 325   |
|  |  | Injection Level in SLV     | 850   | 850   | 850   | 850   |
|  |  | Rating (MVA)               | Percent Overload (%)  |       |       |       |
| 70072 CABINCRK 230<br>70156 DILLON 230 1         | 70274 MALTA 230<br>70927 HARTSELT 230 1    | 478                        | 0.0   | 103.3 | 103.5 | 103.7 |
| 70197 GEORGETN 115<br>70218 HENDERPS 115 1       | 70156 DILLON 230<br>70072 CABINCRK 230 1   | 80                         | 143.0   | 149.3 | 149.6 | 150.0 |
| 70072 CABINCRK 230<br>70237 IDAHOSPG 230 1       | 70072 CABINCRK 230<br>70266 LOOKOUT 230 2  | 478                        | 0.0   | 101.7 | 101.9 | 102.1 |
| 70072 CABINCRK 230<br>70266 LOOKOUT 230 1        | 70072 CABINCRK 230<br>70237 IDAHOSPG 230 1 | 478                        | 0.0   | 103.2 | 103.4 | 103.6 |
| 70212 GREENWD 230<br>70323 PRAIRIE2 230 1        | 70139 DANIELPK 230<br>70331 PRAIRIE 230 1  | 478                        | 0.0   | 0.0   | 100.1 | 101.5 |
| 70086 CANONCTY 115<br>70390 SKALA 115 1          | 73413 MIDWATBR 230<br>73551 W CANON 230 1  | 122                        | 100.7   | 0.0   | 0.0   | 0.0   |
| 70330 PORTLAND 115<br>70456 W.STATON 115 1       | 73413 MIDWATBR 230<br>73551 W CANON 230 1  | 80                         | 100.5   | 0.0   | 0.0   | 0.0   |
| 70071 CABINCRK 115<br>70072 CABINCRK 230 T2      | 70156 DILLON 230<br>70072 CABINCRK 230 1   | 60                         | 0.0   | 0.0   | 100.1 | 100.3 |

# Alternative TR1AE - 750 MW at SLV (Light Load)

2nd SLV-Poncha single circuit 230kV Line Extended to  
Malta with Poncha 230/115 kV Transformer  
Calumet-Comanche double circuit 345kV

| Loaded Element                              | Contingency                                | Injection Level in Calumet | 0                    | 500   | 525   | 550   |
|---|--|----------------------------|----------------------|-------|-------|-------|
|   |  | Injection Level in SLV     | 750                  | 750   | 750   | 750   |
|   |  | Rating (MVA)               | Percent Overload (%) |       |       |       |
| 70072 CABINCRK 230<br>70156 DILLON 230 1    | 70274 MALTA 230<br>70927 HARTSELT 230 1    | 478                        | 0.0                  | 103.3 | 103.5 | 103.7 |
| 70197 GEORGETN 115<br>70218 HENDERPS 115 1  | 70156 DILLON 230<br>70072 CABINCRK 230 1   | 80                         | 143.0                | 149.3 | 149.6 | 150.0 |
| 70072 CABINCRK 230<br>70237 IDAHOSPG 230 1  | 70072 CABINCRK 230<br>70266 LOOKOUT 230 2  | 478                        | 0.0                  | 101.7 | 101.9 | 102.1 |
| 70072 CABINCRK 230<br>70266 LOOKOUT 230 1   | 70072 CABINCRK 230<br>70237 IDAHOSPG 230 1 | 478                        | 0.0                  | 103.2 | 103.4 | 103.6 |
| 70212 GREENWD 230<br>70323 PRAIRIE2 230 1   | 70139 DANIELPK 230<br>70331 PRAIRIE 230 1  | 478                        | 0.0                  | 0.0   | 100.1 | 101.5 |
| 70086 CANONCTY 115<br>70390 SKALA 115 1     | 73413 MIDWATBR 230<br>73551 W CANON 230 1  | 122                        | 100.7                | 0.0   | 0.0   | 0.0   |
| 70330 PORTLAND 115<br>70456 W.STATON 115 1  | 73413 MIDWATER 230<br>73551 W CANON 230 1  | 80                         | 100.5                | 0.0   | 0.0   | 0.0   |
| 70071 CABINCRK 115<br>70072 CABINCRK 230 T2 | 70156 DILLON 230<br>70072 CABINCRK 230 1   | 60                         | 0.0                  | 0.0   | 100.1 | 100.3 |