

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| Keavy 2 | | ABC | SRC-Keavy | 7.50Y | 125.0 | 0.00 | 0.00 | 522.62 | 0 | 11170 | 3673 | 95 | 0.00 | 0.0 | 0.000 | 0.000 | 0 | 0 | 0 | 1487 |
| PL.59428 | Keavy 2 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.00 | 0.00 | 168.60 | 32 | 3613 | 1157 | 95 | 0.06 | 0.0 | 0.003 | 0.003 | 0 | 0 | 0 | 458 |
| PL.59420 | PL.59428 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.00 | 0.01 | 168.60 | 32 | 3612 | 1157 | 95 | 0.06 | 0.0 | 0.005 | 0.003 | 0 | 0 | 0 | 458 |
| ----- Feeder No. 3 (Level Green F3) Beginning with Device PD.8768 ----- | | | | | | | | | | | | | | | | | | | | |
| PD.8768 | PL.59420 | ABC | 400VWE | 7.50Y | 125.0 | 0.00 | 0.01 | 168.60 | 0 | 3612 | 1157 | 95 | 0.00 | 0.0 | 0.005 | 0.003 | 0 | 0 | 0 | 458 |
| PL.59285 | PD.8768 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.00 | 0.01 | 168.60 | 32 | 3612 | 1157 | 95 | 0.08 | 0.0 | 0.008 | 0.003 | 0 | 0 | 1 | 458 |
| PL.59286 | PL.59285 | ABC | 336 MCM AC | 7.47Y | 124.6 | 0.43 | 0.45 | 168.60 | 32 | 3612 | 1157 | 95 | 7.94 | 0.2 | 0.340 | 0.332 | 7 | 2 | 1 | 457 |
| PL.42177 | PL.59286 | ABC | 336 MCM AC | 7.46Y | 124.3 | 0.25 | 0.69 | 168.26 | 32 | 3597 | 1136 | 95 | 4.53 | 0.1 | 0.530 | 0.190 | 0 | 0 | 0 | 456 |
| PL.42179 | PL.42177 | C | 6 A (CWC) | 7.46Y | 124.3 | 0.00 | 0.69 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.536 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6643 | PL.42179 | C | 75QA | 7.46Y | 124.3 | 0.00 | 0.69 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.536 | 0.006 | 0 | 0 | 0 | 0 |
| PL.56489 | PD.6643 | C | 6 A (CWC) | 7.46Y | 124.3 | 0.00 | 0.69 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.567 | 0.031 | 0 | 0 | 0 | 0 |
| PL.57174 | PL.56489 | C | 6 A (CWC) | 7.46Y | 124.3 | 0.00 | 0.69 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.651 | 0.084 | 0 | 0 | 0 | 0 |
| PL.42178 | PL.42177 | ABC | 336 MCM AC | 7.45Y | 124.2 | 0.09 | 0.78 | 168.26 | 32 | 3593 | 1126 | 95 | 1.59 | 0.0 | 0.597 | 0.067 | 10 | 3 | 2 | 456 |
| PL.41280 | PL.42178 | ABC | 6 A (CWC) | 7.45Y | 124.2 | 0.01 | 0.78 | 3.05 | 2 | 61 | 30 | 90 | 0.00 | 0.0 | 0.640 | 0.043 | 0 | 0 | 0 | 1 |
| PL.41893 | PL.41280 | C | 1/0 AL URD | 7.45Y | 124.2 | 0.00 | 0.79 | 9.14 | 5 | 61 | 30 | 90 | 0.00 | 0.0 | 0.646 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6477 | PL.41893 | C | 60QA | 7.45Y | 124.2 | 0.00 | 0.79 | 9.14 | 15 | 61 | 30 | 90 | 0.00 | 0.0 | 0.646 | 0.006 | 0 | 0 | 0 | 1 |
| PL.41894 | PD.6477 | C | 1/0 AL URD | 7.45Y | 124.2 | 0.00 | 0.79 | 9.14 | 5 | 61 | 30 | 90 | 0.00 | 0.0 | 0.661 | 0.015 | 61 | 30 | 1 | 1 |
| PL.41895 | PL.42178 | ABC | 336 MCM AC | 7.45Y | 124.2 | 0.03 | 0.81 | 164.78 | 32 | 3519 | 1090 | 96 | 0.59 | 0.0 | 0.623 | 0.026 | 0 | 0 | 0 | 453 |
| PL.41896 | PL.41895 | ABC | #4 ACSR | 7.45Y | 124.2 | 0.00 | 0.81 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.628 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6644 | PL.41896 | ABC | 20QA | 7.45Y | 124.2 | 0.00 | 0.81 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.628 | 0.006 | 0 | 0 | 0 | 0 |
| PL.41897 | PD.6644 | ABC | #4 ACSR | 7.45Y | 124.2 | 0.00 | 0.81 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.666 | 0.037 | 0 | 0 | 0 | 0 |
| PL.56653 | PL.41895 | ABC | 336 MCM AC | 7.44Y | 123.9 | 0.25 | 1.06 | 164.78 | 32 | 3519 | 1088 | 96 | 4.46 | 0.1 | 0.818 | 0.195 | 2 | 0 | 1 | 453 |
| PL.56654 | PL.56653 | ABC | 336 MCM AC | 7.43Y | 123.9 | 0.06 | 1.12 | 164.70 | 32 | 3513 | 1077 | 96 | 1.09 | 0.0 | 0.865 | 0.047 | 0 | 0 | 0 | 452 |
| PL.58931 | PL.56654 | ABC | 336 MCM AC | 7.42Y | 123.6 | 0.23 | 1.35 | 164.70 | 32 | 3512 | 1075 | 96 | 4.22 | 0.1 | 1.050 | 0.185 | 8 | 2 | 1 | 452 |
| PL.62343 | PL.58931 | ABC | 336 MCM AC | 7.42Y | 123.6 | 0.00 | 1.35 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.050 | 0.000 | 0 | 0 | 0 | 0 |
| PD.9332 | PL.62343 | C | 30T | 7.42Y | 123.6 | 0.00 | 1.35 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.050 | 0.000 | 0 | 0 | 0 | 0 |
| PL.62346 | PD.9332 | C | 6 A (CWC) | 7.42Y | 123.6 | 0.00 | 1.35 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.051 | 0.000 | 0 | 0 | 0 | 0 |
| PL.62344 | PL.62346 | C | 6 A (CWC) | 7.42Y | 123.6 | 0.00 | 1.35 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.088 | 0.037 | 0 | 0 | 0 | 0 |
| PL.62345 | PL.62346 | C | 6 A (CWC) | 7.42Y | 123.6 | 0.00 | 1.35 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.120 | 0.069 | 0 | 0 | 0 | 0 |
| PL.59363 | PL.58931 | ABC | 336 MCM AC | 7.41Y | 123.5 | 0.12 | 1.47 | 164.31 | 32 | 3499 | 1063 | 96 | 2.19 | 0.1 | 1.147 | 0.096 | 10 | 3 | 1 | 451 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

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Source: Keavy 2

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Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.59365 | PL.59363 | ABC | #3/0 ACSR | 7.40Y | 123.3 | 0.21 | 1.69 | 150.23 | 50 | 3194 | 976 | 96 | 4.18 | 0.1 | 1.257 | 0.111 | 19 | 5 | 2 | 406 |
| PL.56225 | PL.59365 | A | 6 A (CWC) | 7.40Y | 123.3 | 0.00 | 1.69 | 1.48 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 1.263 | 0.006 | 0 | 0 | 0 | 1 |
| PD.8315 | PL.56225 | A | 60QA | 7.40Y | 123.3 | 0.00 | 1.69 | 1.48 | 2 | 11 | 3 | 96 | 0.00 | 0.0 | 1.263 | 0.006 | 0 | 0 | 0 | 1 |
| PL.56226 | PD.8315 | A | 6 A (CWC) | 7.40Y | 123.3 | 0.00 | 1.69 | 1.48 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 1.320 | 0.057 | 11 | 3 | 1 | 1 |
| PL.56501 | PL.59365 | ABC | #3/0 ACSR | 7.39Y | 123.2 | 0.13 | 1.82 | 148.85 | 50 | 3161 | 962 | 96 | 2.50 | 0.1 | 1.325 | 0.067 | 7 | 2 | 1 | 403 |
| PL.56502 | PL.56501 | ABC | #3/0 ACSR | 7.38Y | 123.1 | 0.11 | 1.92 | 148.51 | 50 | 3151 | 957 | 96 | 2.10 | 0.1 | 1.381 | 0.057 | 12 | 3 | 3 | 402 |
| PL.41784 | PL.56502 | ABC | #3/0 ACSR | 7.38Y | 123.0 | 0.12 | 2.05 | 147.94 | 49 | 3137 | 951 | 96 | 2.41 | 0.1 | 1.447 | 0.066 | 12 | 3 | 1 | 399 |
| PL.56504 | PL.41784 | ABC | #3/0 ACSR | 7.37Y | 122.8 | 0.19 | 2.24 | 147.40 | 49 | 3123 | 944 | 96 | 3.59 | 0.1 | 1.546 | 0.098 | 5 | 1 | 1 | 398 |
| PL.56726 | PL.56504 | A | 6 A (CWC) | 7.37Y | 122.8 | 0.00 | 2.24 | 0.55 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 1.573 | 0.028 | 0 | 0 | 0 | 1 |
| PL.56725 | PL.56726 | A | #1/0 ACSR | 7.37Y | 122.8 | 0.00 | 2.24 | 0.55 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 1.777 | 0.204 | 4 | 1 | 1 | 1 |
| PL.56730 | PL.56726 | A | 6 A (CWC) | 7.37Y | 122.8 | 0.00 | 2.24 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.610 | 0.037 | 0 | 0 | 0 | 0 |
| PL.56505 | PL.56504 | A | 6 A (CWC) | 7.37Y | 122.8 | 0.00 | 2.24 | 1.39 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 1.551 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6766 | PL.56505 | A | 60QA | 7.37Y | 122.8 | 0.00 | 2.24 | 1.39 | 2 | 10 | 3 | 96 | 0.00 | 0.0 | 1.551 | 0.006 | 0 | 0 | 0 | 1 |
| PL.56224 | PD.6766 | A | 6 A (CWC) | 7.37Y | 122.8 | 0.00 | 2.24 | 1.39 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 1.588 | 0.036 | 10 | 3 | 1 | 1 |
| PL.56506 | PL.56504 | ABC | #3/0 ACSR | 7.35Y | 122.6 | 0.19 | 2.43 | 146.49 | 49 | 3100 | 934 | 96 | 3.70 | 0.1 | 1.648 | 0.103 | 8 | 2 | 1 | 395 |
| PL.41786 | PL.56506 | ABC | #3/0 ACSR | 7.34Y | 122.4 | 0.19 | 2.62 | 145.05 | 48 | 3065 | 920 | 96 | 3.58 | 0.1 | 1.750 | 0.101 | 0 | 0 | 0 | 391 |
| PL.42532 | PL.41786 | ABC | #3/0 ACSR | 7.34Y | 122.3 | 0.05 | 2.67 | 143.86 | 48 | 3036 | 908 | 96 | 0.98 | 0.0 | 1.778 | 0.028 | 7 | 2 | 1 | 389 |
| PL.42533 | PL.42532 | ABC | #3/0 ACSR | 7.33Y | 122.2 | 0.10 | 2.77 | 143.55 | 48 | 3029 | 905 | 96 | 1.84 | 0.1 | 1.831 | 0.053 | 10 | 3 | 1 | 388 |
| PL.42534 | PL.42533 | B | 6 A (CWC) | 7.33Y | 122.2 | 0.01 | 2.77 | 22.85 | 16 | 162 | 43 | 97 | 0.01 | 0.0 | 1.837 | 0.006 | 0 | 0 | 0 | 24 |
| PD.6612 | PL.42534 | B | 60QA | 7.33Y | 122.2 | 0.00 | 2.77 | 22.85 | 38 | 162 | 42 | 97 | 0.00 | 0.0 | 1.837 | 0.006 | 0 | 0 | 0 | 24 |
| PL.57978 | PD.6612 | B | 6 A (CWC) | 7.33Y | 122.1 | 0.11 | 2.88 | 22.85 | 16 | 162 | 42 | 97 | 0.12 | 0.1 | 1.949 | 0.112 | 29 | 8 | 3 | 24 |
| PL.61173 | PL.57978 | B | 1/0 AL URD | 7.33Y | 122.1 | 0.00 | 2.88 | 0.88 | 1 | 6 | 1 | 99 | 0.00 | 0.0 | 1.983 | 0.034 | 0 | 0 | 0 | 2 |
| PL.61174 | PL.61173 | B | 1/0 AL URD | 7.33Y | 122.1 | 0.00 | 2.88 | 0.88 | 1 | 6 | 1 | 99 | 0.00 | 0.0 | 2.062 | 0.079 | 6 | 2 | 2 | 2 |
| PL.57980 | PL.57978 | B | 6 A (CWC) | 7.33Y | 122.1 | 0.03 | 2.91 | 17.81 | 13 | 126 | 33 | 97 | 0.03 | 0.0 | 1.987 | 0.038 | 0 | 0 | 0 | 19 |
| PL.57981 | PL.57980 | B | 6 A (CWC) | 7.32Y | 122.0 | 0.07 | 2.98 | 14.42 | 10 | 102 | 27 | 97 | 0.06 | 0.1 | 2.107 | 0.120 | 11 | 3 | 1 | 16 |
| PL.57979 | PL.57981 | B | 6 A (CWC) | 7.32Y | 122.0 | 0.03 | 3.02 | 11.24 | 8 | 79 | 21 | 97 | 0.02 | 0.0 | 2.177 | 0.070 | 17 | 4 | 1 | 14 |
| PL.56930 | PL.57979 | B | 6 A (CWC) | 7.32Y | 122.0 | 0.02 | 3.03 | 8.88 | 6 | 63 | 17 | 97 | 0.01 | 0.0 | 2.221 | 0.044 | 8 | 2 | 1 | 13 |
| PL.56931 | PL.56930 | B | 6 A (CWC) | 7.32Y | 121.9 | 0.02 | 3.05 | 7.81 | 6 | 55 | 15 | 96 | 0.01 | 0.0 | 2.291 | 0.070 | 16 | 4 | 2 | 12 |
| PL.56932 | PL.56931 | B | 6 A (CWC) | 7.32Y | 121.9 | 0.01 | 3.06 | 5.57 | 4 | 39 | 11 | 96 | 0.00 | 0.0 | 2.327 | 0.036 | 0 | 0 | 0 | 10 |
| PL.56708 | PL.56932 | B | 6 A (CWC) | 7.32Y | 121.9 | 0.01 | 3.08 | 5.13 | 4 | 36 | 10 | 96 | 0.00 | 0.0 | 2.381 | 0.054 | 0 | 0 | 0 | 8 |
| PL.56709 | PL.56708 | B | 6 A (CWC) | 7.32Y | 121.9 | 0.00 | 3.08 | 1.91 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 2.433 | 0.052 | 5 | 1 | 3 | 5 |

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| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.56707 | PL.56709 | B | #2 ACSR | 7.32Y | 121.9 | 0.00 | 3.08 | 1.17 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 2.480 | 0.047 | 8 | 2 | 2 | 2 |
| PL.56706 | PL.56709 | B | 6 A (CWC) | 7.32Y | 121.9 | 0.00 | 3.08 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.447 | 0.014 | 0 | 0 | 0 | 0 |
| PL.56710 | PL.56708 | B | #1/0 ACSR | 7.32Y | 121.9 | 0.00 | 3.08 | 3.22 | 1 | 23 | 6 | 97 | 0.00 | 0.0 | 2.406 | 0.025 | 0 | 0 | 0 | 3 |
| PL.56711 | PL.56710 | B | #1/0 ACSR | 7.32Y | 121.9 | 0.00 | 3.08 | 3.22 | 1 | 23 | 6 | 97 | 0.00 | 0.0 | 2.429 | 0.023 | 8 | 2 | 1 | 3 |
| PL.62033 | PL.56711 | B | #1/0 ACSR | 7.31Y | 121.9 | 0.00 | 3.08 | 2.02 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 2.547 | 0.118 | 5 | 1 | 1 | 2 |
| PL.62034 | PL.62033 | B | #1/0 ACSR | 7.31Y | 121.9 | 0.00 | 3.09 | 1.32 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.619 | 0.072 | 9 | 2 | 1 | 1 |
| PL.56705 | PL.56932 | B | #1/0 ACSR | 7.32Y | 121.9 | 0.00 | 3.06 | 0.45 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 2.370 | 0.043 | 3 | 1 | 2 | 2 |
| PL.72484 | PL.57979 | B | #2 ACSR | 7.32Y | 122.0 | 0.00 | 3.02 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.201 | 0.023 | 0 | 0 | 0 | 0 |
| PL.57977 | PL.57981 | B | #4 ACSR | 7.32Y | 122.0 | 0.00 | 2.99 | 1.65 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 2.140 | 0.033 | 12 | 3 | 1 | 1 |
| PL.57982 | PL.57980 | B | 4/0 AL URD | 7.33Y | 122.1 | 0.00 | 2.91 | 3.39 | 1 | 24 | 6 | 97 | 0.00 | 0.0 | 1.987 | 0.000 | 15 | 4 | 2 | 3 |
| PL.63222 | PL.57982 | B | 1/0 AL URD | 7.33Y | 122.1 | 0.00 | 2.91 | 1.22 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.033 | 0.047 | 0 | 0 | 0 | 1 |
| PL.63472 | PL.63222 | B | 1/0 AL URD | 7.33Y | 122.1 | 0.00 | 2.91 | 1.23 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.117 | 0.083 | 0 | 0 | 0 | 1 |
| PL.63473 | PL.63472 | B | 1/0 AL URD | 7.33Y | 122.1 | 0.00 | 2.91 | 1.24 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.117 | 0.000 | 9 | 2 | 1 | 1 |
| PL.56961 | PL.42533 | ABC | #3/0 ACSR | 7.32Y | 122.0 | 0.25 | 3.02 | 135.48 | 45 | 2855 | 857 | 96 | 4.52 | 0.2 | 1.978 | 0.147 | 10 | 3 | 1 | 363 |
| PL.56962 | PL.56961 | ABC | #3/0 ACSR | 7.31Y | 121.9 | 0.12 | 3.14 | 134.76 | 45 | 2835 | 846 | 96 | 2.14 | 0.1 | 2.048 | 0.070 | 0 | 0 | 0 | 360 |
| PL.56934 | PL.56962 | A | #4 ACSR | 7.31Y | 121.9 | 0.00 | 3.14 | 2.93 | 2 | 21 | 6 | 96 | 0.00 | 0.0 | 2.054 | 0.006 | 0 | 0 | 0 | 2 |
| PD.8335 | PL.56934 | A | 20QA | 7.31Y | 121.9 | 0.00 | 3.14 | 2.93 | 15 | 21 | 6 | 96 | 0.00 | 0.0 | 2.054 | 0.006 | 0 | 0 | 0 | 2 |
| PL.56927 | PD.8335 | A | #4 ACSR | 7.31Y | 121.8 | 0.01 | 3.15 | 2.93 | 2 | 21 | 6 | 96 | 0.00 | 0.0 | 2.115 | 0.060 | 0 | 0 | 0 | 2 |
| PL.56926 | PL.56927 | A | #4 ACSR | 7.31Y | 121.8 | 0.00 | 3.15 | 2.93 | 2 | 21 | 6 | 96 | 0.00 | 0.0 | 2.142 | 0.027 | 21 | 6 | 2 | 2 |
| PL.42037 | PL.56962 | ABC | #1/0 ACSR | 7.30Y | 121.6 | 0.21 | 3.35 | 96.36 | 42 | 2019 | 624 | 96 | 2.91 | 0.1 | 2.166 | 0.118 | 4 | 1 | 1 | 253 |
| PL.56734 | PL.42037 | ABC | #1/0 ACSR | 7.29Y | 121.5 | 0.18 | 3.53 | 96.00 | 42 | 2009 | 619 | 96 | 2.54 | 0.1 | 2.270 | 0.103 | 0 | 0 | 0 | 251 |
| PL.56735 | PL.56734 | C | #4 ACSR | 7.29Y | 121.5 | 0.00 | 3.53 | 4.31 | 3 | 30 | 8 | 97 | 0.00 | 0.0 | 2.275 | 0.006 | 0 | 0 | 0 | 4 |
| PD.6636 | PL.56735 | C | 60QA | 7.29Y | 121.5 | 0.00 | 3.53 | 4.31 | 7 | 30 | 8 | 97 | 0.00 | 0.0 | 2.275 | 0.006 | 0 | 0 | 0 | 4 |
| PL.42038 | PD.6636 | C | #4 ACSR | 7.29Y | 121.5 | 0.01 | 3.54 | 4.31 | 3 | 30 | 8 | 97 | 0.00 | 0.0 | 2.321 | 0.046 | 23 | 6 | 2 | 4 |
| PL.42039 | PL.42038 | C | #4 ACSR | 7.29Y | 121.5 | 0.00 | 3.54 | 1.10 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 2.373 | 0.051 | 8 | 2 | 2 | 2 |
| PL.56736 | PL.56734 | ABC | #1/0 ACSR | 7.29Y | 121.4 | 0.05 | 3.58 | 94.57 | 41 | 1976 | 609 | 96 | 0.62 | 0.0 | 2.296 | 0.026 | 1 | 0 | 1 | 247 |
| PL.56724 | PL.56736 | ABC | #1/0 ACSR | 7.28Y | 121.3 | 0.16 | 3.74 | 94.53 | 41 | 1975 | 608 | 96 | 2.21 | 0.1 | 2.389 | 0.093 | 0 | 0 | 0 | 246 |
| PL.56723 | PL.56724 | ABC | #1/0 ACSR | 7.27Y | 121.2 | 0.08 | 3.82 | 93.77 | 41 | 1956 | 601 | 96 | 1.06 | 0.1 | 2.434 | 0.046 | 10 | 3 | 1 | 243 |
| PL.56490 | PL.56723 | ABC | #1/0 ACSR | 7.27Y | 121.1 | 0.06 | 3.88 | 93.32 | 41 | 1946 | 598 | 96 | 0.83 | 0.0 | 2.470 | 0.036 | 3 | 1 | 1 | 242 |
| PL.58488 | PL.56490 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.88 | 3.29 | 3 | 23 | 6 | 97 | 0.00 | 0.0 | 2.474 | 0.003 | 0 | 0 | 0 | 5 |
| PD.8693 | PL.58488 | C | 25T | 7.27Y | 121.1 | 0.00 | 3.88 | 3.29 | 0 | 23 | 6 | 97 | 0.00 | 0.0 | 2.474 | 0.003 | 0 | 0 | 0 | 5 |

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| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.58489 | PD.8693 | C | #4 ACSR | 7.27Y | 121.1 | 0.01 | 3.88 | 3.29 | 3 | 23 | 6 | 97 | 0.00 | 0.0 | 2.513 | 0.040 | 0 | 0 | 1 | 5 |
| PL.58487 | PL.58489 | C | #4 ACSR | 7.27Y | 121.1 | 0.01 | 3.90 | 3.23 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 2.600 | 0.087 | 0 | 0 | 0 | 4 |
| PL.52128 | PL.58487 | C | #4 ACSR | 7.27Y | 121.1 | 0.01 | 3.91 | 3.23 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 2.672 | 0.072 | 6 | 2 | 1 | 4 |
| PL.62020 | PL.52128 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.91 | 2.36 | 2 | 17 | 4 | 97 | 0.00 | 0.0 | 2.731 | 0.059 | 9 | 2 | 1 | 3 |
| PL.62021 | PL.62020 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.91 | 1.14 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 2.773 | 0.042 | 3 | 1 | 1 | 2 |
| PL.62022 | PL.62021 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.91 | 0.65 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 2.786 | 0.012 | 5 | 1 | 1 | 1 |
| PL.52127 | PL.58487 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.90 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.652 | 0.052 | 0 | 0 | 0 | 0 |
| PL.56839 | PL.56490 | ABC | #1/0 ACSR | 7.25Y | 120.9 | 0.27 | 4.15 | 92.07 | 40 | 1919 | 590 | 96 | 3.62 | 0.2 | 2.631 | 0.160 | 0 | 0 | 1 | 236 |
| PL.56840 | PL.56839 | ABC | #1/0 ACSR | 7.25Y | 120.8 | 0.08 | 4.23 | 91.53 | 40 | 1904 | 584 | 96 | 1.09 | 0.1 | 2.679 | 0.049 | 0 | 0 | 0 | 234 |
| PL.52125 | PL.56840 | A | 6 A (CWC) | 7.25Y | 120.8 | 0.01 | 4.24 | 2.32 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 2.799 | 0.119 | 16 | 4 | 3 | 3 |
| PL.56922 | PL.56840 | ABC | #1/0 ACSR | 7.23Y | 120.6 | 0.20 | 4.43 | 90.76 | 39 | 1886 | 578 | 96 | 2.60 | 0.1 | 2.798 | 0.119 | 10 | 3 | 2 | 231 |
| PL.56450 | PL.56922 | ABC | #1/0 ACSR | 7.23Y | 120.4 | 0.14 | 4.56 | 62.30 | 27 | 1287 | 415 | 95 | 1.24 | 0.1 | 2.918 | 0.120 | 0 | 0 | 0 | 138 |
| PL.56451 | PL.56450 | ABC | #1/0 ACSR | 7.22Y | 120.4 | 0.07 | 4.63 | 30.36 | 13 | 635 | 172 | 97 | 0.30 | 0.0 | 3.041 | 0.123 | 0 | 0 | 0 | 85 |
| PL.56951 | PL.56451 | ABC | #1/0 ACSR | 7.22Y | 120.4 | 0.01 | 4.64 | 30.36 | 13 | 635 | 172 | 97 | 0.05 | 0.0 | 3.063 | 0.022 | 0 | 0 | 0 | 85 |
| PL.42155 | PL.56951 | ABC | #1/0 ACSR | 7.22Y | 120.4 | 0.00 | 4.65 | 30.36 | 13 | 635 | 172 | 97 | 0.01 | 0.0 | 3.069 | 0.006 | 0 | 0 | 0 | 85 |
| PD.6804 | PL.42155 | ABC | 100L | 7.22Y | 120.4 | 0.00 | 4.65 | 30.36 | 30 | 635 | 172 | 97 | 0.00 | 0.0 | 3.069 | 0.006 | 0 | 0 | 0 | 85 |
| PL.42156 | PD.6804 | ABC | #1/0 ACSR | 7.22Y | 120.3 | 0.02 | 4.67 | 30.36 | 13 | 635 | 172 | 97 | 0.11 | 0.0 | 3.114 | 0.045 | 0 | 0 | 0 | 85 |
| PL.42157 | PL.42156 | A | #4 ACSR | 7.22Y | 120.3 | 0.00 | 4.67 | 2.18 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 3.119 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6471 | PL.42157 | A | 50QA | 7.22Y | 120.3 | 0.00 | 4.67 | 2.18 | 4 | 15 | 4 | 97 | 0.00 | 0.0 | 3.119 | 0.006 | 0 | 0 | 0 | 2 |
| PL.56491 | PD.6471 | A | #4 ACSR | 7.22Y | 120.3 | 0.00 | 4.67 | 2.18 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 3.145 | 0.026 | 15 | 4 | 2 | 2 |
| PL.42158 | PL.42156 | ABC | #1/0 ACSR | 7.22Y | 120.3 | 0.06 | 4.73 | 29.63 | 13 | 620 | 167 | 97 | 0.26 | 0.0 | 3.224 | 0.110 | 1 | 0 | 2 | 83 |
| PL.42159 | PL.42158 | ABC | #1/0 ACSR | 7.21Y | 120.2 | 0.02 | 4.75 | 29.57 | 13 | 618 | 167 | 97 | 0.09 | 0.0 | 3.264 | 0.040 | 0 | 0 | 0 | 81 |
| PL.42160 | PL.42159 | A | #4 ACSR | 7.21Y | 120.2 | 0.00 | 4.75 | 0.75 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 3.269 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6536 | PL.42160 | A | 50QA | 7.21Y | 120.2 | 0.00 | 4.75 | 0.75 | 2 | 5 | 1 | 98 | 0.00 | 0.0 | 3.269 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42161 | PD.6536 | A | #4 ACSR | 7.21Y | 120.2 | 0.00 | 4.75 | 0.75 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 3.299 | 0.030 | 5 | 1 | 1 | 1 |
| PL.42572 | PL.42159 | ABC | #1/0 ACSR | 7.21Y | 120.2 | 0.05 | 4.80 | 29.32 | 13 | 613 | 165 | 97 | 0.23 | 0.0 | 3.362 | 0.099 | 0 | 0 | 0 | 80 |
| PL.41355 | PL.42572 | B | #4 ACSR | 7.21Y | 120.2 | 0.00 | 4.81 | 1.71 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 3.427 | 0.064 | 12 | 3 | 1 | 1 |
| PL.42573 | PL.42572 | ABC | #1/0 ACSR | 7.21Y | 120.1 | 0.05 | 4.86 | 28.75 | 12 | 601 | 162 | 97 | 0.23 | 0.0 | 3.468 | 0.105 | 0 | 0 | 0 | 79 |
| PL.42574 | PL.42573 | A | #4 ACSR | 7.21Y | 120.1 | 0.00 | 4.86 | 1.56 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 3.473 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6778 | PL.42574 | A | 50QA | 7.21Y | 120.1 | 0.00 | 4.86 | 1.56 | 3 | 11 | 3 | 96 | 0.00 | 0.0 | 3.473 | 0.006 | 0 | 0 | 0 | 1 |
| PL.57582 | PD.6778 | A | #4 ACSR | 7.21Y | 120.1 | 0.00 | 4.86 | 1.56 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 3.500 | 0.026 | 11 | 3 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42575 | PL.42573 | C | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.86 | 4.78 | 3 | 33 | 9 | 96 | 0.00 | 0.0 | 3.473 | 0.006 | 0 | 0 | 0 | 4 |
| PD.6705 | PL.42575 | C | 50QA | 7.21Y | 120.1 | 0.00 | 4.86 | 4.78 | 10 | 33 | 9 | 96 | 0.00 | 0.0 | 3.473 | 0.006 | 0 | 0 | 0 | 4 |
| PL.42576 | PD.6705 | C | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.86 | 4.78 | 3 | 33 | 9 | 96 | 0.00 | 0.0 | 3.500 | 0.026 | 14 | 4 | 1 | 4 |
| PL.42577 | PL.42576 | C | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.87 | 2.79 | 2 | 19 | 5 | 97 | 0.00 | 0.0 | 3.563 | 0.063 | 19 | 5 | 3 | 3 |
| PL.42578 | PL.42573 | ABC | #1/0 ACSR | 7.21Y | 120.1 | 0.02 | 4.88 | 26.63 | 12 | 556 | 150 | 97 | 0.08 | 0.0 | 3.512 | 0.044 | 6 | 2 | 1 | 74 |
| PL.42579 | PL.42578 | ABC | #1/0 ACSR | 7.21Y | 120.1 | 0.01 | 4.89 | 26.32 | 11 | 550 | 148 | 97 | 0.04 | 0.0 | 3.534 | 0.022 | 4 | 1 | 1 | 73 |
| PL.42581 | PL.42579 | ABC | #1/0 ACSR | 7.21Y | 120.1 | 0.02 | 4.91 | 26.12 | 11 | 545 | 147 | 97 | 0.06 | 0.0 | 3.568 | 0.034 | 0 | 0 | 0 | 72 |
| PL.42580 | PL.42581 | C | #4 ACSR | 7.21Y | 120.1 | 0.00 | 4.91 | 1.19 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 3.574 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6446 | PL.42580 | C | 50QA | 7.21Y | 120.1 | 0.00 | 4.91 | 1.19 | 2 | 8 | 2 | 97 | 0.00 | 0.0 | 3.574 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42582 | PD.6446 | C | #4 ACSR | 7.21Y | 120.1 | 0.00 | 4.91 | 1.19 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 3.624 | 0.050 | 0 | 0 | 0 | 1 |
| PL.42583 | PL.42582 | C | #4 ACSR | 7.21Y | 120.1 | 0.00 | 4.91 | 1.19 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 3.668 | 0.044 | 8 | 2 | 1 | 1 |
| PL.42584 | PL.42581 | ABC | #1/0 ACSR | 7.20Y | 120.1 | 0.01 | 4.92 | 25.73 | 11 | 537 | 145 | 97 | 0.05 | 0.0 | 3.597 | 0.029 | 0 | 0 | 0 | 71 |
| PL.42585 | PL.42584 | A | 6 A (CWC) | 7.20Y | 120.1 | 0.00 | 4.92 | 0.44 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 3.602 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6522 | PL.42585 | A | 50QA | 7.20Y | 120.1 | 0.00 | 4.92 | 0.44 | 1 | 3 | 1 | 95 | 0.00 | 0.0 | 3.602 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42586 | PD.6522 | A | 6 A (CWC) | 7.20Y | 120.1 | 0.00 | 4.92 | 0.44 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 3.668 | 0.066 | 3 | 1 | 1 | 1 |
| PL.52711 | PL.42584 | ABC | #1/0 ACSR | 7.20Y | 120.1 | 0.01 | 4.93 | 25.58 | 11 | 534 | 144 | 97 | 0.05 | 0.0 | 3.622 | 0.026 | 0 | 0 | 0 | 70 |
| PL.57184 | PL.52711 | ABC | #1/0 ACSR | 7.20Y | 120.1 | 0.02 | 4.95 | 25.58 | 11 | 534 | 144 | 97 | 0.07 | 0.0 | 3.665 | 0.042 | 0 | 0 | 0 | 70 |
| PL.59378 | PL.57184 | ABC | #1/0 ACSR | 7.20Y | 120.0 | 0.04 | 4.99 | 23.35 | 10 | 487 | 131 | 97 | 0.14 | 0.0 | 3.761 | 0.097 | 7 | 2 | 1 | 65 |
| PL.59379 | PL.59378 | A | #4 ACSR | 7.20Y | 120.0 | 0.00 | 4.99 | 4.32 | 3 | 30 | 8 | 97 | 0.00 | 0.0 | 3.767 | 0.006 | 0 | 0 | 0 | 4 |
| PD.6539 | PL.59379 | A | 20T | 7.20Y | 120.0 | 0.00 | 4.99 | 4.32 | 0 | 30 | 8 | 97 | 0.00 | 0.0 | 3.767 | 0.006 | 0 | 0 | 0 | 4 |
| PL.57011 | PD.6539 | A | #4 ACSR | 7.20Y | 120.0 | 0.02 | 5.01 | 4.32 | 3 | 30 | 8 | 97 | 0.00 | 0.0 | 3.857 | 0.090 | 7 | 2 | 1 | 4 |
| PL.57013 | PL.57011 | A | #4 ACSR | 7.20Y | 120.0 | 0.00 | 5.01 | 1.13 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 3.897 | 0.040 | 8 | 2 | 1 | 1 |
| PL.57014 | PL.57013 | A | #4 ACSR | 7.20Y | 120.0 | 0.00 | 5.01 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.950 | 0.053 | 0 | 0 | 0 | 0 |
| PL.57012 | PL.57011 | A | #2 ACSR | 7.20Y | 120.0 | 0.00 | 5.01 | 2.10 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 3.863 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6472 | PL.57012 | A | 25QA | 7.20Y | 120.0 | 0.00 | 5.01 | 2.10 | 8 | 15 | 4 | 97 | 0.00 | 0.0 | 3.863 | 0.006 | 0 | 0 | 0 | 2 |
| PL.57007 | PD.6472 | A | #2 ACSR | 7.20Y | 120.0 | 0.00 | 5.01 | 2.10 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 3.892 | 0.029 | 15 | 4 | 2 | 2 |
| PL.59380 | PL.59378 | ABC | #1/0 ACSR | 7.20Y | 120.0 | 0.02 | 5.01 | 21.59 | 9 | 450 | 121 | 97 | 0.07 | 0.0 | 3.817 | 0.055 | 13 | 4 | 4 | 60 |
| PL.57008 | PL.59380 | ABC | #1/0 ACSR | 7.20Y | 120.0 | 0.02 | 5.03 | 20.94 | 9 | 437 | 118 | 97 | 0.06 | 0.0 | 3.870 | 0.053 | 7 | 2 | 1 | 56 |
| PL.56522 | PL.57008 | B | 6 A (CWC) | 7.20Y | 119.9 | 0.04 | 5.07 | 60.28 | 43 | 419 | 113 | 97 | 0.13 | 0.0 | 3.885 | 0.015 | 0 | 0 | 0 | 54 |
| PL.42587 | PL.56522 | B | 6 A (CWC) | 7.19Y | 119.9 | 0.02 | 5.09 | 58.63 | 42 | 407 | 110 | 97 | 0.05 | 0.0 | 3.891 | 0.006 | 0 | 0 | 0 | 53 |
| C PD.6805 | PL.42587 | B | 70L | 7.19Y | 119.9 | 0.00 | 5.09 | 58.63 | 84 | 407 | 110 | 97 | 0.00 | 0.0 | 3.891 | 0.006 | 0 | 0 | 0 | 53 C |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42588 | PD.6805 | B | 6 A (CWC) | 7.19Y | 119.8 | 0.08 | 5.17 | 58.63 | 42 | 407 | 110 | 97 | 0.26 | 0.1 | 3.923 | 0.032 | 12 | 3 | 1 | 53 |
| PL.42590 | PL.42588 | B | 6 A (CWC) | 7.18Y | 119.7 | 0.08 | 5.26 | 52.49 | 37 | 364 | 98 | 97 | 0.22 | 0.1 | 3.960 | 0.037 | 42 | 11 | 5 | 46 |
| PL.42591 | PL.42590 | B | 6 A (CWC) | 7.18Y | 119.7 | 0.04 | 5.29 | 46.42 | 33 | 322 | 87 | 97 | 0.09 | 0.0 | 3.977 | 0.017 | 0 | 0 | 0 | 41 |
| PL.42592 | PL.42591 | B | #4 ACSR | 7.18Y | 119.7 | 0.01 | 5.30 | 11.03 | 8 | 77 | 20 | 97 | 0.01 | 0.0 | 4.001 | 0.024 | 15 | 4 | 2 | 9 |
| PL.42593 | PL.42592 | B | #4 ACSR | 7.18Y | 119.7 | 0.01 | 5.32 | 8.91 | 7 | 62 | 17 | 96 | 0.01 | 0.0 | 4.047 | 0.045 | 24 | 6 | 3 | 7 |
| PL.56902 | PL.42593 | B | #4 ACSR | 7.18Y | 119.7 | 0.01 | 5.33 | 5.48 | 4 | 38 | 10 | 97 | 0.00 | 0.0 | 4.094 | 0.048 | 0 | 0 | 0 | 4 |
| PL.56903 | PL.56902 | B | #4 ACSR | 7.18Y | 119.7 | 0.00 | 5.33 | 2.26 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 4.134 | 0.040 | 8 | 2 | 1 | 2 |
| PL.42594 | PL.56903 | B | #4 ACSR | 7.18Y | 119.7 | 0.00 | 5.33 | 1.04 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 4.172 | 0.038 | 7 | 2 | 1 | 1 |
| PL.56904 | PL.56902 | B | #4 ACSR | 7.18Y | 119.7 | 0.00 | 5.33 | 3.22 | 2 | 22 | 6 | 96 | 0.00 | 0.0 | 4.130 | 0.036 | 22 | 6 | 2 | 2 |
| PL.62224 | PL.42591 | B | 6 A (CWC) | 7.18Y | 119.6 | 0.10 | 5.39 | 35.39 | 25 | 245 | 66 | 97 | 0.18 | 0.1 | 4.038 | 0.061 | 12 | 3 | 3 | 32 |
| PL.63461 | PL.62224 | B | 6 A (CWC) | 7.17Y | 119.5 | 0.12 | 5.51 | 33.70 | 24 | 234 | 63 | 97 | 0.22 | 0.1 | 4.117 | 0.079 | 0 | 0 | 0 | 29 |
| PL.63462 | PL.63461 | B | 6 A (CWC) | 7.16Y | 119.3 | 0.22 | 5.73 | 31.72 | 23 | 220 | 59 | 97 | 0.37 | 0.2 | 4.267 | 0.150 | 0 | 0 | 0 | 28 |
| PL.62225 | PL.63462 | B | #4 ACSR | 7.16Y | 119.3 | 0.00 | 5.73 | 1.33 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 4.322 | 0.055 | 1 | 0 | 1 | 2 |
| PL.42595 | PL.62225 | B | #4 ACSR | 7.16Y | 119.3 | 0.00 | 5.73 | 1.23 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 4.354 | 0.032 | 9 | 2 | 1 | 1 |
| PL.62226 | PL.63462 | B | 6 A (CWC) | 7.15Y | 119.2 | 0.11 | 5.83 | 30.40 | 22 | 210 | 56 | 97 | 0.17 | 0.1 | 4.346 | 0.079 | 11 | 3 | 1 | 26 |
| PL.57120 | PL.62226 | B | 6 A (CWC) | 7.15Y | 119.1 | 0.07 | 5.90 | 28.83 | 21 | 199 | 53 | 97 | 0.11 | 0.1 | 4.401 | 0.055 | 14 | 4 | 4 | 25 |
| PL.57118 | PL.57120 | B | #4 ACSR | 7.14Y | 119.1 | 0.01 | 5.92 | 9.02 | 7 | 62 | 17 | 96 | 0.01 | 0.0 | 4.438 | 0.037 | 13 | 4 | 1 | 6 |
| PL.57114 | PL.57118 | B | #4 ACSR | 7.14Y | 119.1 | 0.01 | 5.92 | 7.11 | 5 | 49 | 13 | 97 | 0.00 | 0.0 | 4.466 | 0.028 | 23 | 6 | 2 | 5 |
| PL.57182 | PL.57114 | B | #2 ACSR | 7.14Y | 119.1 | 0.01 | 5.93 | 3.72 | 2 | 26 | 7 | 97 | 0.00 | 0.0 | 4.536 | 0.070 | 12 | 3 | 1 | 3 |
| PL.57183 | PL.57182 | B | #2 ACSR | 7.14Y | 119.1 | 0.00 | 5.93 | 2.03 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 4.625 | 0.089 | 14 | 4 | 2 | 2 |
| PL.56691 | PL.57183 | B | #4 ACSR | 7.14Y | 119.1 | 0.00 | 5.93 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.671 | 0.046 | 0 | 0 | 0 | 0 |
| PL.57119 | PL.57120 | B | #1/0 ACSR | 7.15Y | 119.1 | 0.00 | 5.91 | 2.05 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 4.414 | 0.013 | 14 | 4 | 1 | 1 |
| PL.57117 | PL.57120 | B | 6 A (CWC) | 7.14Y | 119.0 | 0.09 | 6.00 | 15.75 | 11 | 109 | 29 | 97 | 0.08 | 0.1 | 4.529 | 0.128 | 0 | 0 | 0 | 14 |
| PL.57115 | PL.57117 | B | 6 A (CWC) | 7.14Y | 119.0 | 0.00 | 6.00 | 14.58 | 10 | 101 | 27 | 97 | 0.00 | 0.0 | 4.535 | 0.006 | 0 | 0 | 0 | 13 |
| PD.6524 | PL.57115 | B | 40QA | 7.14Y | 119.0 | 0.00 | 6.00 | 14.58 | 36 | 101 | 27 | 97 | 0.00 | 0.0 | 4.535 | 0.006 | 0 | 0 | 0 | 13 |
| PL.42196 | PD.6524 | B | 6 A (CWC) | 7.14Y | 118.9 | 0.06 | 6.06 | 14.58 | 10 | 101 | 27 | 97 | 0.04 | 0.0 | 4.618 | 0.083 | 0 | 0 | 0 | 13 |
| PL.41831 | PL.42196 | B | #1/0 ACSR | 7.14Y | 118.9 | 0.00 | 6.06 | 1.38 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 4.694 | 0.075 | 10 | 3 | 1 | 1 |
| PL.42197 | PL.42196 | B | 6 A (CWC) | 7.13Y | 118.8 | 0.13 | 6.18 | 11.62 | 8 | 80 | 21 | 97 | 0.08 | 0.1 | 4.877 | 0.259 | 10 | 3 | 1 | 10 |
| PL.56850 | PL.42197 | B | 6 A (CWC) | 7.13Y | 118.8 | 0.06 | 6.24 | 10.12 | 7 | 70 | 19 | 97 | 0.03 | 0.0 | 5.006 | 0.129 | 0 | 0 | 0 | 9 |
| PL.61143 | PL.56850 | B | 6 A (CWC) | 7.13Y | 118.8 | 0.00 | 6.25 | 4.57 | 3 | 31 | 8 | 97 | 0.00 | 0.0 | 5.033 | 0.026 | 13 | 3 | 2 | 4 |
| PL.61144 | PL.61143 | B | 6 A (CWC) | 7.13Y | 118.8 | 0.00 | 6.25 | 1.22 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 5.066 | 0.033 | 8 | 2 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.61145 | PL.61144 | B | 6 A (CWC) | 7.13Y | 118.8 | 0.00 | 6.25 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.124 | 0.058 | 0 | 0 | 0 | 0 |
| PL.61142 | PL.61143 | B | 6 A (CWC) | 7.12Y | 118.7 | 0.01 | 6.26 | 1.46 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 5.145 | 0.112 | 0 | 0 | 0 | 1 |
| PL.51773 | PL.61142 | B | 6 A (CWC) | 7.12Y | 118.7 | 0.00 | 6.26 | 1.46 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 5.197 | 0.052 | 0 | 0 | 0 | 1 |
| PL.51774 | PL.51773 | B | 6 A (CWC) | 7.12Y | 118.7 | 0.00 | 6.26 | 1.46 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 5.265 | 0.069 | 0 | 0 | 0 | 1 |
| PL.51775 | PL.51774 | B | 6 A (CWC) | 7.12Y | 118.7 | 0.00 | 6.27 | 1.46 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 5.287 | 0.021 | 10 | 3 | 1 | 1 |
| PL.56952 | PL.56850 | B | 6 A (CWC) | 7.12Y | 118.7 | 0.04 | 6.28 | 5.56 | 4 | 38 | 10 | 97 | 0.01 | 0.0 | 5.202 | 0.195 | 17 | 5 | 1 | 5 |
| PL.56953 | PL.56952 | B | 6 A (CWC) | 7.12Y | 118.7 | 0.01 | 6.29 | 3.09 | 2 | 21 | 6 | 96 | 0.00 | 0.0 | 5.263 | 0.061 | 0 | 0 | 1 | 4 |
| PL.57104 | PL.56953 | B | 6 A (CWC) | 7.12Y | 118.7 | 0.05 | 6.34 | 3.04 | 2 | 21 | 6 | 96 | 0.01 | 0.0 | 5.608 | 0.345 | 0 | 0 | 0 | 3 |
| PL.57103 | PL.57104 | B | 6 A (CWC) | 7.12Y | 118.7 | 0.01 | 6.35 | 3.04 | 2 | 21 | 6 | 96 | 0.00 | 0.0 | 5.690 | 0.082 | 11 | 3 | 2 | 3 |
| PL.63470 | PL.57103 | B | #1/0 ACSR | 7.12Y | 118.6 | 0.00 | 6.35 | 1.51 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 5.748 | 0.058 | 0 | 0 | 0 | 1 |
| PL.63471 | PL.63470 | B | #1/0 ACSR | 7.12Y | 118.6 | 0.00 | 6.35 | 1.51 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 5.800 | 0.051 | 10 | 3 | 1 | 1 |
| PL.57105 | PL.57104 | B | 6 A (CWC) | 7.12Y | 118.7 | 0.00 | 6.34 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.812 | 0.203 | 0 | 0 | 0 | 0 |
| PL.57274 | PL.57105 | B | 6 A (CWC) | 7.12Y | 118.7 | 0.00 | 6.34 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.879 | 0.068 | 0 | 0 | 0 | 0 |
| PL.56712 | PL.42196 | B | #4 ACSR | 7.14Y | 118.9 | 0.00 | 6.06 | 1.58 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 4.711 | 0.093 | 11 | 3 | 2 | 2 |
| PL.57116 | PL.57117 | B | #4 ACSR | 7.14Y | 119.0 | 0.00 | 6.00 | 1.16 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 4.577 | 0.048 | 8 | 2 | 1 | 1 |
| PL.42195 | PL.57116 | B | #4 ACSR | 7.14Y | 119.0 | 0.00 | 6.00 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.652 | 0.075 | 0 | 0 | 0 | 0 |
| PL.63463 | PL.63461 | B | #1/0 ACSR | 7.17Y | 119.5 | 0.00 | 5.51 | 1.97 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 4.121 | 0.004 | 0 | 0 | 0 | 1 |
| PD.9424 | PL.63463 | B | 10T | 7.17Y | 119.5 | 0.00 | 5.51 | 1.97 | 0 | 14 | 4 | 96 | 0.00 | 0.0 | 4.121 | 0.004 | 0 | 0 | 0 | 1 |
| PL.63474 | PD.9424 | B | #1/0 ACSR | 7.17Y | 119.5 | 0.00 | 5.51 | 1.97 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 4.195 | 0.075 | 14 | 4 | 1 | 1 |
| PL.57009 | PL.42588 | B | 6 A (CWC) | 7.19Y | 119.8 | 0.01 | 5.18 | 4.42 | 3 | 31 | 8 | 97 | 0.00 | 0.0 | 3.980 | 0.058 | 2 | 0 | 1 | 6 |
| PL.57010 | PL.57009 | B | 6 A (CWC) | 7.19Y | 119.8 | 0.01 | 5.20 | 4.16 | 3 | 29 | 8 | 96 | 0.00 | 0.0 | 4.086 | 0.105 | 19 | 5 | 3 | 5 |
| PL.42589 | PL.57010 | B | 6 A (CWC) | 7.19Y | 119.8 | 0.00 | 5.20 | 1.37 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 4.147 | 0.062 | 10 | 3 | 2 | 2 |
| PL.41696 | PL.56522 | B | #2 ACSR | 7.20Y | 119.9 | 0.00 | 5.07 | 1.65 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 3.944 | 0.059 | 11 | 3 | 1 | 1 |
| PL.64546 | PL.41696 | B | #1/0 ACSR | 7.20Y | 119.9 | 0.00 | 5.07 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.952 | 0.008 | 0 | 0 | 0 | 0 |
| PL.64547 | PL.64546 | B | #1/0 ACSR | 7.20Y | 119.9 | 0.00 | 5.07 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.986 | 0.033 | 0 | 0 | 0 | 0 |
| PL.56523 | PL.57008 | C | #1/0 ACSR | 7.20Y | 120.0 | 0.00 | 5.03 | 1.49 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 3.896 | 0.026 | 10 | 3 | 1 | 1 |
| PL.56521 | PL.57008 | ABC | #1/0 ACSR | 7.20Y | 120.0 | 0.00 | 5.03 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.906 | 0.036 | 0 | 0 | 0 | 0 |
| PD.6815-B | PL.56521 | ABC | Open | 7.20Y | 120.0 | 0.00 | 5.03 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.906 | 0.036 | 0 | 0 | 0 | 0 |
| PL.57186 | PL.57184 | B | 6 A (CWC) | 7.20Y | 120.0 | 0.00 | 4.95 | 6.68 | 5 | 46 | 12 | 97 | 0.00 | 0.0 | 3.669 | 0.004 | 0 | 0 | 0 | 5 |
| PD.8271 | PL.57186 | B | 20QA | 7.20Y | 120.0 | 0.00 | 4.95 | 6.68 | 33 | 46 | 12 | 97 | 0.00 | 0.0 | 3.669 | 0.004 | 0 | 0 | 0 | 5 |
| PL.57187 | PD.8271 | B | 6 A (CWC) | 7.20Y | 120.0 | 0.02 | 4.97 | 6.68 | 5 | 46 | 12 | 97 | 0.01 | 0.0 | 3.729 | 0.060 | 4 | 1 | 1 | 5 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.57185 | PL.57187 | B | 6 A (CWC) | 7.20Y | 120.0 | 0.02 | 4.99 | 6.09 | 4 | 42 | 11 | 97 | 0.01 | 0.0 | 3.798 | 0.069 | 10 | 3 | 1 | 4 |
| PL.57093 | PL.57185 | B | 6 A (CWC) | 7.20Y | 120.0 | 0.00 | 4.99 | 4.60 | 3 | 32 | 9 | 96 | 0.00 | 0.0 | 3.814 | 0.016 | 4 | 1 | 1 | 3 |
| PL.57092 | PL.57093 | B | 6 A (CWC) | 7.20Y | 120.0 | 0.01 | 5.00 | 4.08 | 3 | 28 | 8 | 96 | 0.00 | 0.0 | 3.901 | 0.087 | 12 | 3 | 1 | 2 |
| PL.56870 | PL.57092 | B | #1/0 ACSR | 7.20Y | 120.0 | 0.00 | 5.00 | 2.39 | 1 | 17 | 4 | 97 | 0.00 | 0.0 | 4.016 | 0.115 | 17 | 4 | 1 | 1 |
| CP.83 | PL.52711 | ABC | Cap (300) | 7.20Y | 120.1 | 0.00 | 4.93 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.622 | 0.115 | 0 | 0 | 0 | 0 |
| PL.56448 | PL.56450 | ABC | #1/0 ACSR | 7.22Y | 120.4 | 0.06 | 4.63 | 31.90 | 14 | 648 | 241 | 94 | 0.28 | 0.0 | 3.022 | 0.103 | 4 | 1 | 1 | 52 |
| PL.56452 | PL.56448 | B | 6 A (CWC) | 7.22Y | 120.4 | 0.01 | 4.64 | 69.04 | 49 | 473 | 159 | 95 | 0.04 | 0.0 | 3.026 | 0.004 | 0 | 0 | 0 | 49 |
| C PD.8244 | PL.56452 | B | 40QA | 7.22Y | 120.4 | 0.00 | 4.64 | 69.04 | 173 | 473 | 159 | 95 | 0.00 | 0.0 | 3.026 | 0.004 | 0 | 0 | 0 | 49 C |
| PL.57108 | PD.8244 | B | 6 A (CWC) | 7.21Y | 120.1 | 0.27 | 4.91 | 69.04 | 49 | 473 | 159 | 95 | 0.99 | 0.2 | 3.111 | 0.086 | 0 | 0 | 0 | 49 |
| PL.57106 | PL.57108 | B | 6 A (CWC) | 7.20Y | 120.1 | 0.02 | 4.93 | 69.04 | 49 | 472 | 158 | 95 | 0.07 | 0.0 | 3.117 | 0.006 | 0 | 0 | 0 | 49 |
| C PD.8333 | PL.57106 | B | 50L | 7.20Y | 120.1 | 0.00 | 4.93 | 69.04 | 138 | 472 | 158 | 95 | 0.00 | 0.0 | 3.117 | 0.006 | 0 | 0 | 0 | 49 C |
| PL.57107 | PD.8333 | B | 6 A (CWC) | 7.19Y | 119.8 | 0.23 | 5.16 | 69.04 | 49 | 472 | 158 | 95 | 0.82 | 0.2 | 3.189 | 0.072 | 6 | 1 | 1 | 49 |
| PL.56925 | PL.57107 | B | 6 A (CWC) | 7.18Y | 119.6 | 0.20 | 5.36 | 67.01 | 48 | 457 | 154 | 95 | 0.68 | 0.1 | 3.251 | 0.063 | 0 | 0 | 0 | 47 |
| PL.56846 | PL.56925 | B | 6 A (CWC) | 7.18Y | 119.6 | 0.00 | 5.36 | 1.61 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 3.362 | 0.110 | 11 | 3 | 1 | 1 |
| PL.56847 | PL.56925 | B | 6 A (CWC) | 7.17Y | 119.6 | 0.07 | 5.42 | 65.39 | 47 | 445 | 151 | 95 | 0.23 | 0.1 | 3.274 | 0.023 | 0 | 0 | 0 | 46 |
| PL.56605 | PL.56847 | B | 1/0 AL URD | 7.17Y | 119.6 | 0.00 | 5.43 | 1.54 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 3.316 | 0.042 | 11 | 3 | 1 | 1 |
| PL.56604 | PL.56847 | B | 6 A (CWC) | 7.17Y | 119.5 | 0.10 | 5.52 | 63.86 | 46 | 434 | 148 | 95 | 0.29 | 0.1 | 3.317 | 0.043 | 168 | 76 | 4 | 45 |
| PL.56603 | PL.56604 | B | 6 A (CWC) | 7.16Y | 119.3 | 0.15 | 5.68 | 38.35 | 27 | 265 | 72 | 97 | 0.32 | 0.1 | 3.405 | 0.088 | 0 | 0 | 0 | 41 |
| PL.42262 | PL.56603 | B | 6 A (CWC) | 7.15Y | 119.2 | 0.14 | 5.82 | 37.64 | 27 | 260 | 70 | 97 | 0.28 | 0.1 | 3.485 | 0.080 | 0 | 0 | 0 | 40 |
| PL.42144 | PL.42262 | B | 6 A (CWC) | 7.15Y | 119.2 | 0.01 | 5.83 | 5.32 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 3.527 | 0.042 | 0 | 0 | 0 | 3 |
| PL.42145 | PL.42144 | B | 6 A (CWC) | 7.15Y | 119.2 | 0.00 | 5.83 | 2.91 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 3.593 | 0.066 | 20 | 5 | 1 | 2 |
| PL.42146 | PL.42145 | B | 6 A (CWC) | 7.15Y | 119.2 | 0.00 | 5.83 | 0.09 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 3.648 | 0.056 | 1 | 0 | 1 | 1 |
| PL.41015 | PL.42144 | B | 6 A (CWC) | 7.15Y | 119.2 | 0.00 | 5.83 | 2.40 | 2 | 17 | 4 | 97 | 0.00 | 0.0 | 3.616 | 0.090 | 17 | 4 | 1 | 1 |
| PL.42147 | PL.42262 | B | 6 A (CWC) | 7.13Y | 118.8 | 0.35 | 6.17 | 32.32 | 23 | 223 | 60 | 97 | 0.61 | 0.3 | 3.726 | 0.241 | 3 | 1 | 1 | 37 |
| PL.57121 | PL.42147 | B | 6 A (CWC) | 7.11Y | 118.5 | 0.29 | 6.46 | 31.94 | 23 | 220 | 59 | 97 | 0.49 | 0.2 | 3.928 | 0.202 | 5 | 1 | 1 | 36 |
| PL.59394 | PL.57121 | B | #4 ACSR | 7.11Y | 118.5 | 0.00 | 6.47 | 2.19 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 4.024 | 0.096 | 15 | 4 | 1 | 1 |
| PL.57122 | PL.57121 | B | 6 A (CWC) | 7.11Y | 118.4 | 0.11 | 6.58 | 29.05 | 21 | 199 | 54 | 97 | 0.18 | 0.1 | 4.014 | 0.087 | 0 | 0 | 0 | 34 |
| PL.42148 | PL.57122 | B | 6 A (CWC) | 7.09Y | 118.2 | 0.22 | 6.80 | 28.72 | 21 | 197 | 53 | 97 | 0.34 | 0.2 | 4.185 | 0.170 | 0 | 0 | 0 | 33 |
| PL.42151 | PL.42148 | B | 6 A (CWC) | 7.09Y | 118.1 | 0.08 | 6.88 | 26.07 | 19 | 179 | 48 | 97 | 0.11 | 0.1 | 4.253 | 0.068 | 2 | 1 | 1 | 29 |
| L PL.42152 | PL.42151 | B | 6 A (CWC) | 7.07Y | 117.8 | 0.29 | 7.17 | 25.74 | 18 | 176 | 47 | 97 | 0.40 | 0.2 | 4.500 | 0.248 | 1 | 0 | 2 | 28 L |
| L PL.42119 | PL.42152 | B | #2 ACSR | 7.07Y | 117.8 | 0.00 | 7.17 | 0.04 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.550 | 0.050 | 0 | 0 | 3 | 3 L |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| L PL.42153 | PL.42152 | B | 6 A (CWC) | 7.06Y | 117.7 | 0.13 | 7.30 | 25.53 | 18 | 174 | 47 | 97 | 0.18 | 0.1 | 4.615 | 0.114 | 0 | 0 | 0 | 23 L |
| L PL.56618 | PL.42153 | B | #1/0 ACSR | 7.06Y | 117.7 | 0.00 | 7.31 | 3.27 | 1 | 22 | 6 | 96 | 0.00 | 0.0 | 4.646 | 0.031 | 22 | 6 | 2 | 2 L |
| L PL.42154 | PL.42153 | B | 6 A (CWC) | 7.06Y | 117.6 | 0.07 | 7.38 | 22.27 | 16 | 152 | 41 | 97 | 0.09 | 0.1 | 4.688 | 0.073 | 6 | 2 | 1 | 21 L |
| L PL.56499 | PL.42154 | B | 6 A (CWC) | 7.06Y | 117.6 | 0.04 | 7.41 | 21.39 | 15 | 146 | 39 | 97 | 0.04 | 0.0 | 4.725 | 0.037 | 8 | 2 | 1 | 20 L |
| L PL.56500 | PL.56499 | B | 6 A (CWC) | 7.05Y | 117.5 | 0.07 | 7.48 | 20.24 | 14 | 138 | 37 | 97 | 0.07 | 0.1 | 4.800 | 0.075 | 3 | 1 | 1 | 19 L |
| L PL.56492 | PL.56500 | B | #4 ACSR | 7.05Y | 117.5 | 0.02 | 7.50 | 6.11 | 5 | 42 | 11 | 97 | 0.01 | 0.0 | 4.867 | 0.067 | 0 | 0 | 0 | 8 L |
| L PL.56493 | PL.56492 | B | #4 ACSR | 7.05Y | 117.5 | 0.00 | 7.50 | 0.73 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 4.907 | 0.041 | 5 | 1 | 1 | 1 L |
| L PL.56741 | PL.56493 | B | #4 ACSR | 7.05Y | 117.5 | 0.00 | 7.50 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.970 | 0.063 | 0 | 0 | 0 | 0 L |
| L PL.56496 | PL.56492 | B | #4 ACSR | 7.05Y | 117.5 | 0.01 | 7.51 | 2.91 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 4.921 | 0.054 | 0 | 0 | 0 | 6 L |
| L PL.56498 | PL.56496 | B | #2 ACSR | 7.05Y | 117.5 | 0.00 | 7.51 | 1.89 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 4.940 | 0.019 | 13 | 3 | 2 | 2 L |
| L PL.56497 | PL.56496 | B | #4 ACSR | 7.05Y | 117.5 | 0.00 | 7.51 | 1.02 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 5.000 | 0.079 | 1 | 0 | 2 | 4 L |
| L PL.56494 | PL.56497 | B | #4 ACSR | 7.05Y | 117.5 | 0.00 | 7.51 | 0.84 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 5.014 | 0.013 | 6 | 2 | 2 | 2 L |
| L PL.64314 | PL.56492 | B | #1/0 ACSR | 7.05Y | 117.5 | 0.00 | 7.50 | 2.47 | 1 | 17 | 4 | 97 | 0.00 | 0.0 | 4.933 | 0.066 | 0 | 0 | 0 | 1 L |
| L PL.64315 | PL.64314 | B | #1/0 ACSR | 7.05Y | 117.5 | 0.00 | 7.50 | 2.47 | 1 | 17 | 4 | 97 | 0.00 | 0.0 | 4.995 | 0.062 | 17 | 4 | 1 | 1 L |
| L PL.56740 | PL.56500 | B | #2 ACSR | 7.05Y | 117.5 | 0.04 | 7.52 | 13.72 | 8 | 93 | 25 | 97 | 0.03 | 0.0 | 4.891 | 0.091 | 0 | 0 | 0 | 10 L |
| L PL.56592 | PL.56740 | B | 6 A (CWC) | 7.05Y | 117.5 | 0.00 | 7.52 | 2.54 | 2 | 17 | 5 | 96 | 0.00 | 0.0 | 4.935 | 0.044 | 17 | 5 | 4 | 4 L |
| L PL.56593 | PL.56740 | B | #2 ACSR | 7.05Y | 117.5 | 0.01 | 7.53 | 11.18 | 6 | 76 | 20 | 97 | 0.01 | 0.0 | 4.929 | 0.038 | 0 | 0 | 0 | 6 L |
| L PL.56595 | PL.56593 | B | #1/0 ACSR | 7.05Y | 117.5 | 0.00 | 7.53 | 1.44 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 4.945 | 0.016 | 10 | 3 | 1 | 1 L |
| L PL.56594 | PL.56593 | B | #2 ACSR | 7.05Y | 117.4 | 0.02 | 7.56 | 9.74 | 6 | 66 | 18 | 96 | 0.01 | 0.0 | 5.004 | 0.075 | 0 | 0 | 0 | 5 L |
| L PL.56222 | PL.56594 | B | #1/0 ACSR | 7.05Y | 117.4 | 0.00 | 7.56 | 2.51 | 1 | 17 | 5 | 96 | 0.00 | 0.0 | 5.015 | 0.012 | 17 | 5 | 1 | 1 L |
| L PL.56221 | PL.56594 | B | #2 ACSR | 7.05Y | 117.4 | 0.02 | 7.57 | 7.23 | 4 | 49 | 13 | 97 | 0.01 | 0.0 | 5.080 | 0.076 | 0 | 0 | 0 | 4 L |
| L PL.56743 | PL.56221 | B | #2 ACSR | 7.05Y | 117.4 | 0.01 | 7.58 | 2.50 | 1 | 17 | 5 | 96 | 0.00 | 0.0 | 5.163 | 0.084 | 5 | 1 | 1 | 2 L |
| L PL.56744 | PL.56743 | B | #1/0 ACSR | 7.05Y | 117.4 | 0.00 | 7.58 | 1.70 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 5.223 | 0.060 | 0 | 0 | 0 | 1 L |
| L PL.56745 | PL.56744 | B | #1/0 ACSR | 7.05Y | 117.4 | 0.00 | 7.58 | 1.70 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 5.329 | 0.106 | 12 | 3 | 1 | 1 L |
| L PL.56746 | PL.56745 | B | #1/0 ACSR | 7.05Y | 117.4 | 0.00 | 7.58 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.356 | 0.027 | 0 | 0 | 0 | 0 L |
| L PL.63469 | PL.56221 | B | 1/0 AL URD | 7.05Y | 117.4 | 0.00 | 7.57 | 2.29 | 1 | 16 | 4 | 97 | 0.00 | 0.0 | 5.120 | 0.041 | 16 | 4 | 1 | 1 L |
| L PL.56742 | PL.56221 | B | #2 ACSR | 7.05Y | 117.4 | 0.00 | 7.58 | 2.43 | 1 | 17 | 4 | 97 | 0.00 | 0.0 | 5.144 | 0.064 | 17 | 4 | 1 | 1 L |
| PL.42149 | PL.42148 | B | #4 ACSR | 7.09Y | 118.2 | 0.01 | 6.81 | 2.65 | 2 | 18 | 5 | 96 | 0.00 | 0.0 | 4.311 | 0.126 | 5 | 1 | 3 | 4 |
| PL.42150 | PL.42149 | B | #4 ACSR | 7.09Y | 118.2 | 0.00 | 6.81 | 1.86 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 4.342 | 0.031 | 13 | 3 | 1 | 1 |
| PL.56228 | PL.57122 | B | #4 ACSR | 7.11Y | 118.4 | 0.00 | 6.58 | 0.33 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 4.134 | 0.119 | 2 | 1 | 1 | 1 |
| PL.56713 | PL.56603 | B | #1/0 ACSR | 7.16Y | 119.3 | 0.00 | 5.68 | 0.71 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 3.424 | 0.019 | 5 | 1 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.59354 | PL.57107 | B | 6 A (CWC) | 7.19Y | 119.8 | 0.00 | 5.16 | 1.24 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 3.304 | 0.115 | 9 | 2 | 1 | 1 |
| PL.56449 | PL.56448 | ABC | #1/0 ACSR | 7.22Y | 120.3 | 0.03 | 4.66 | 8.29 | 4 | 162 | 78 | 90 | 0.03 | 0.0 | 3.200 | 0.179 | 0 | 0 | 0 | 1 |
| PL.56920 | PL.56449 | ABC | #2 ACSR | 7.22Y | 120.3 | 0.00 | 4.66 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.246 | 0.045 | 0 | 0 | 0 | 0 |
| PL.56921 | PL.56449 | ABC | #1/0 ACSR | 7.22Y | 120.3 | 0.00 | 4.66 | 8.29 | 4 | 162 | 78 | 90 | 0.00 | 0.0 | 3.210 | 0.010 | 162 | 78 | 1 | 1 |
| PL.56453 | PL.56448 | A | #2 ACSR | 7.22Y | 120.4 | 0.00 | 4.63 | 1.40 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 3.027 | 0.005 | 0 | 0 | 0 | 1 |
| PD.8245 | PL.56453 | A | 40QA | 7.22Y | 120.4 | 0.00 | 4.63 | 1.40 | 3 | 10 | 3 | 96 | 0.00 | 0.0 | 3.027 | 0.005 | 0 | 0 | 0 | 1 |
| PL.56851 | PD.8245 | A | #2 ACSR | 7.22Y | 120.4 | 0.00 | 4.63 | 1.40 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 3.116 | 0.089 | 10 | 3 | 1 | 1 |
| PL.56454 | PL.56450 | C | #1/0 ACSR | 7.23Y | 120.4 | 0.00 | 4.56 | 0.34 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 2.924 | 0.006 | 0 | 0 | 0 | 1 |
| PD.8331 | PL.56454 | C | 20QA | 7.23Y | 120.4 | 0.00 | 4.56 | 0.34 | 2 | 2 | 1 | 89 | 0.00 | 0.0 | 2.924 | 0.006 | 0 | 0 | 0 | 1 |
| PL.56780 | PD.8331 | C | #1/0 ACSR | 7.23Y | 120.4 | 0.00 | 4.57 | 0.34 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 2.971 | 0.047 | 2 | 1 | 1 | 1 |
| PL.56923 | PL.56922 | ABC | #1/0 ACSR | 7.23Y | 120.6 | 0.02 | 4.45 | 27.62 | 12 | 579 | 156 | 97 | 0.08 | 0.0 | 2.840 | 0.042 | 0 | 0 | 0 | 90 |
| PL.42041 | PL.56923 | ABC | #1/0 ACSR | 7.23Y | 120.5 | 0.00 | 4.45 | 27.62 | 12 | 579 | 156 | 97 | 0.01 | 0.0 | 2.846 | 0.006 | 0 | 0 | 0 | 90 |
| PD.6813 | PL.42041 | ABC | 50L | 7.23Y | 120.5 | 0.00 | 4.45 | 27.62 | 55 | 579 | 156 | 97 | 0.00 | 0.0 | 2.846 | 0.006 | 0 | 0 | 0 | 90 |
| PL.42042 | PD.6813 | ABC | #1/0 ACSR | 7.23Y | 120.5 | 0.02 | 4.47 | 27.62 | 12 | 579 | 156 | 97 | 0.08 | 0.0 | 2.884 | 0.038 | 7 | 2 | 1 | 90 |
| PL.41817 | PL.42042 | A | #1/0 ACSR | 7.23Y | 120.5 | 0.00 | 4.47 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.987 | 0.103 | 0 | 0 | 1 | 1 |
| PL.56392 | PL.42042 | ABC | #1/0 ACSR | 7.23Y | 120.5 | 0.04 | 4.51 | 27.26 | 12 | 571 | 154 | 97 | 0.15 | 0.0 | 2.962 | 0.078 | 0 | 0 | 0 | 88 |
| PL.56393 | PL.56392 | C | #1/0 ACSR | 7.23Y | 120.5 | 0.00 | 4.51 | 0.54 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 2.968 | 0.006 | 0 | 0 | 0 | 1 |
| PD.8005 | PL.56393 | C | 40QA | 7.23Y | 120.5 | 0.00 | 4.51 | 0.54 | 1 | 4 | 1 | 97 | 0.00 | 0.0 | 2.968 | 0.006 | 0 | 0 | 0 | 1 |
| PL.52054 | PD.8005 | C | #1/0 ACSR | 7.23Y | 120.5 | 0.00 | 4.51 | 0.54 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 3.011 | 0.044 | 4 | 1 | 1 | 1 |
| PL.56394 | PL.56392 | ABC | #1/0 ACSR | 7.23Y | 120.5 | 0.03 | 4.54 | 25.41 | 11 | 532 | 143 | 97 | 0.13 | 0.0 | 3.037 | 0.075 | 11 | 3 | 2 | 82 |
| PL.42043 | PL.56394 | A | #2 ACSR | 7.23Y | 120.5 | 0.00 | 4.54 | 0.84 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 3.043 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6639 | PL.42043 | A | 40QA | 7.23Y | 120.5 | 0.00 | 4.54 | 0.84 | 2 | 6 | 2 | 95 | 0.00 | 0.0 | 3.043 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42044 | PD.6639 | A | #2 ACSR | 7.23Y | 120.5 | 0.00 | 4.54 | 0.84 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 3.095 | 0.052 | 6 | 2 | 1 | 1 |
| PL.42045 | PL.56394 | A | #2 ACSR | 7.23Y | 120.5 | 0.00 | 4.54 | 0.98 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 3.043 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6768 | PL.42045 | A | 40QA | 7.23Y | 120.5 | 0.00 | 4.54 | 0.98 | 2 | 7 | 2 | 96 | 0.00 | 0.0 | 3.043 | 0.006 | 0 | 0 | 0 | 3 |
| PL.62046 | PD.6768 | A | #2 ACSR | 7.23Y | 120.5 | 0.00 | 4.54 | 0.98 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 3.105 | 0.063 | 4 | 1 | 2 | 3 |
| PL.62047 | PL.62046 | A | #2 ACSR | 7.23Y | 120.5 | 0.00 | 4.54 | 0.36 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 3.131 | 0.025 | 3 | 1 | 1 | 1 |
| PL.42046 | PL.56394 | ABC | #1/0 ACSR | 7.23Y | 120.4 | 0.03 | 4.57 | 24.29 | 11 | 509 | 137 | 97 | 0.12 | 0.0 | 3.111 | 0.074 | 5 | 1 | 1 | 76 |
| PL.42047 | PL.42046 | ABC | #1/0 ACSR | 7.22Y | 120.4 | 0.07 | 4.65 | 24.04 | 10 | 503 | 135 | 97 | 0.26 | 0.1 | 3.281 | 0.170 | 0 | 0 | 0 | 75 |
| PL.42049 | PL.42047 | A | #2 ACSR | 7.22Y | 120.4 | 0.00 | 4.65 | 0.96 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 3.287 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6426 | PL.42049 | A | 40QA | 7.22Y | 120.4 | 0.00 | 4.65 | 0.96 | 2 | 7 | 2 | 96 | 0.00 | 0.0 | 3.287 | 0.006 | 0 | 0 | 0 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42050 | PD.6426 | A | #2 ACSR | 7.22Y | 120.4 | 0.00 | 4.65 | 0.96 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 3.312 | 0.025 | 7 | 2 | 1 | 1 |
| PL.42051 | PL.42047 | ABC | #1/0 ACSR | 7.22Y | 120.3 | 0.01 | 4.66 | 23.45 | 10 | 491 | 132 | 97 | 0.04 | 0.0 | 3.311 | 0.030 | 0 | 0 | 0 | 73 |
| PL.42053 | PL.42051 | A | #4 ACSR | 7.22Y | 120.3 | 0.00 | 4.66 | 1.12 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 3.317 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6638 | PL.42053 | A | 40QA | 7.22Y | 120.3 | 0.00 | 4.66 | 1.12 | 3 | 8 | 2 | 97 | 0.00 | 0.0 | 3.317 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42054 | PD.6638 | A | #2 ACSR | 7.22Y | 120.3 | 0.00 | 4.66 | 1.12 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 3.360 | 0.043 | 8 | 2 | 1 | 1 |
| PL.42055 | PL.42051 | A | #2 ACSR | 7.22Y | 120.3 | 0.00 | 4.66 | 1.27 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 3.317 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6640 | PL.42055 | A | 40QA | 7.22Y | 120.3 | 0.00 | 4.66 | 1.27 | 3 | 9 | 2 | 98 | 0.00 | 0.0 | 3.317 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42056 | PD.6640 | A | #2 ACSR | 7.22Y | 120.3 | 0.00 | 4.66 | 1.27 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 3.344 | 0.027 | 9 | 2 | 1 | 1 |
| PL.42052 | PL.42051 | ABC | #1/0 ACSR | 7.22Y | 120.3 | 0.04 | 4.70 | 22.65 | 10 | 474 | 127 | 97 | 0.15 | 0.0 | 3.418 | 0.107 | 0 | 0 | 0 | 71 |
| PL.42057 | PL.42052 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.01 | 4.71 | 20.40 | 15 | 142 | 38 | 97 | 0.01 | 0.0 | 3.424 | 0.006 | 0 | 0 | 0 | 17 |
| PD.6535 | PL.42057 | A | 40QA | 7.22Y | 120.3 | 0.00 | 4.71 | 20.40 | 51 | 142 | 38 | 97 | 0.00 | 0.0 | 3.424 | 0.006 | 0 | 0 | 0 | 17 |
| PL.42058 | PD.6535 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.03 | 4.73 | 20.40 | 15 | 142 | 38 | 97 | 0.03 | 0.0 | 3.453 | 0.029 | 14 | 4 | 1 | 17 |
| PL.42059 | PL.42058 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.05 | 4.78 | 18.45 | 13 | 129 | 34 | 97 | 0.05 | 0.0 | 3.512 | 0.059 | 0 | 0 | 0 | 16 |
| PL.42060 | PL.42059 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.04 | 4.82 | 18.45 | 13 | 129 | 34 | 97 | 0.04 | 0.0 | 3.555 | 0.042 | 0 | 0 | 1 | 16 |
| PL.42061 | PL.42060 | A | 6 A (CWC) | 7.21Y | 120.1 | 0.04 | 4.86 | 18.45 | 13 | 128 | 34 | 97 | 0.04 | 0.0 | 3.604 | 0.049 | 3 | 1 | 1 | 15 |
| PL.56645 | PL.42061 | A | 6 A (CWC) | 7.20Y | 120.1 | 0.08 | 4.94 | 18.03 | 13 | 126 | 34 | 97 | 0.07 | 0.1 | 3.707 | 0.103 | 12 | 3 | 2 | 14 |
| PL.56646 | PL.56645 | A | #4 ACSR | 7.20Y | 120.0 | 0.05 | 4.99 | 10.39 | 8 | 72 | 19 | 97 | 0.03 | 0.0 | 3.830 | 0.123 | 13 | 3 | 1 | 8 |
| PL.42015 | PL.56646 | A | #4 ACSR | 7.20Y | 120.0 | 0.04 | 5.04 | 8.51 | 7 | 59 | 16 | 97 | 0.02 | 0.0 | 3.954 | 0.125 | 11 | 3 | 1 | 7 |
| PL.42016 | PL.42015 | A | #4 ACSR | 7.20Y | 120.0 | 0.01 | 5.05 | 5.73 | 4 | 40 | 11 | 96 | 0.00 | 0.0 | 4.006 | 0.052 | 6 | 2 | 1 | 5 |
| PL.41556 | PL.42016 | A | #4 ACSR | 7.20Y | 119.9 | 0.00 | 5.05 | 2.16 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 4.086 | 0.080 | 15 | 4 | 2 | 2 |
| PL.56714 | PL.42016 | A | 6 A (CWC) | 7.20Y | 120.0 | 0.00 | 5.05 | 1.30 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 4.041 | 0.035 | 9 | 2 | 1 | 1 |
| PL.56715 | PL.56714 | A | 6 A (CWC) | 7.20Y | 120.0 | 0.00 | 5.05 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.095 | 0.055 | 0 | 0 | 0 | 0 |
| PL.56596 | PL.42016 | A | #4 ACSR | 7.20Y | 119.9 | 0.00 | 5.05 | 1.38 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 4.162 | 0.156 | 10 | 3 | 1 | 1 |
| PL.41555 | PL.42015 | A | #4 ACSR | 7.20Y | 120.0 | 0.00 | 5.04 | 1.19 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 4.121 | 0.167 | 8 | 2 | 1 | 1 |
| PL.64675 | PL.56645 | A | #4 ACSR | 7.20Y | 120.0 | 0.01 | 4.95 | 5.91 | 5 | 41 | 11 | 97 | 0.00 | 0.0 | 3.752 | 0.046 | 0 | 0 | 0 | 4 |
| PL.64676 | PL.64675 | A | #4 ACSR | 7.20Y | 120.0 | 0.00 | 4.95 | 5.91 | 5 | 41 | 11 | 97 | 0.00 | 0.0 | 3.752 | 0.000 | 10 | 3 | 1 | 4 |
| PL.41418 | PL.64676 | A | #4 ACSR | 7.20Y | 120.0 | 0.01 | 4.96 | 4.51 | 3 | 31 | 8 | 97 | 0.00 | 0.0 | 3.806 | 0.054 | 9 | 2 | 1 | 3 |
| PL.56647 | PL.41418 | A | #1/0 ACSR | 7.20Y | 120.0 | 0.01 | 4.97 | 3.26 | 1 | 23 | 6 | 97 | 0.00 | 0.0 | 3.957 | 0.151 | 9 | 2 | 1 | 2 |
| PL.56648 | PL.56647 | A | #1/0 ACSR | 7.20Y | 120.0 | 0.00 | 4.97 | 1.97 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 4.008 | 0.051 | 0 | 0 | 0 | 1 |
| PL.56649 | PL.56648 | A | #1/0 ACSR | 7.20Y | 120.0 | 0.01 | 4.98 | 1.97 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 4.323 | 0.315 | 14 | 4 | 1 | 1 |
| PL.56643 | PL.64676 | A | #4 ACSR | 7.20Y | 120.0 | 0.00 | 4.95 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.824 | 0.072 | 0 | 0 | 0 | 0 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.56644 | PL.56643 | A | #4 ACSR | 7.20Y | 120.0 | 0.00 | 4.95 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.904 | 0.080 | 0 | 0 | 0 | 0 |
| PL.41802 | PL.56644 | A | #4 ACSR | 7.20Y | 120.0 | 0.00 | 4.95 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.020 | 0.116 | 0 | 0 | 0 | 0 |
| PL.41577 | PL.42052 | ABC | #1/0 ACSR | 7.22Y | 120.3 | 0.02 | 4.73 | 15.86 | 7 | 332 | 89 | 97 | 0.06 | 0.0 | 3.503 | 0.084 | 0 | 0 | 0 | 54 |
| PL.59295 | PL.41577 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.73 | 31.51 | 23 | 220 | 59 | 97 | 0.01 | 0.0 | 3.506 | 0.003 | 0 | 0 | 0 | 36 |
| PD.8774 | PL.59295 | A | 40T | 7.22Y | 120.3 | 0.00 | 4.73 | 31.51 | 0 | 220 | 59 | 97 | 0.00 | 0.0 | 3.506 | 0.003 | 0 | 0 | 0 | 36 |
| PL.59296 | PD.8774 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.07 | 4.80 | 31.51 | 23 | 220 | 59 | 97 | 0.12 | 0.1 | 3.556 | 0.051 | 4 | 1 | 2 | 36 |
| PL.56601 | PL.59296 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.01 | 4.82 | 5.92 | 4 | 41 | 11 | 97 | 0.00 | 0.0 | 3.647 | 0.091 | 41 | 11 | 5 | 5 |
| PL.56602 | PL.59296 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.04 | 4.85 | 25.03 | 18 | 174 | 47 | 97 | 0.05 | 0.0 | 3.594 | 0.038 | 15 | 4 | 2 | 29 |
| PL.56698 | PL.56602 | A | 6 A (CWC) | 7.21Y | 120.1 | 0.07 | 4.91 | 22.80 | 16 | 159 | 43 | 97 | 0.08 | 0.1 | 3.657 | 0.063 | 0 | 0 | 0 | 27 |
| PL.59396 | PL.56698 | A | 6 A (CWC) | 7.20Y | 120.0 | 0.07 | 4.98 | 22.80 | 16 | 159 | 43 | 97 | 0.09 | 0.1 | 3.730 | 0.074 | 9 | 2 | 1 | 27 |
| PL.59397 | PL.59396 | A | 6 A (CWC) | 7.19Y | 119.9 | 0.12 | 5.10 | 21.51 | 15 | 150 | 40 | 97 | 0.13 | 0.1 | 3.855 | 0.125 | 8 | 2 | 1 | 26 |
| PL.56597 | PL.59397 | A | #4 ACSR | 7.19Y | 119.9 | 0.01 | 5.12 | 3.88 | 3 | 27 | 7 | 97 | 0.00 | 0.0 | 3.954 | 0.099 | 16 | 4 | 2 | 3 |
| PL.56598 | PL.56597 | A | #1/0 ACSR | 7.19Y | 119.9 | 0.00 | 5.12 | 1.53 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 4.033 | 0.078 | 11 | 3 | 1 | 1 |
| PL.56238 | PL.59397 | A | 6 A (CWC) | 7.19Y | 119.9 | 0.04 | 5.14 | 10.93 | 8 | 76 | 20 | 97 | 0.02 | 0.0 | 3.939 | 0.084 | 10 | 3 | 2 | 16 |
| PL.57823 | PL.56238 | A | 6 A (CWC) | 7.19Y | 119.8 | 0.02 | 5.16 | 5.86 | 4 | 41 | 11 | 97 | 0.01 | 0.0 | 4.018 | 0.080 | 10 | 3 | 3 | 12 |
| PL.57822 | PL.57823 | A | 6 A (CWC) | 7.19Y | 119.8 | 0.00 | 5.16 | 0.59 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 4.155 | 0.136 | 4 | 1 | 1 | 1 |
| PL.57824 | PL.57823 | A | 6 A (CWC) | 7.19Y | 119.8 | 0.00 | 5.17 | 3.84 | 3 | 27 | 7 | 97 | 0.00 | 0.0 | 4.046 | 0.027 | 6 | 2 | 2 | 8 |
| PL.56509 | PL.57824 | A | 6 A (CWC) | 7.19Y | 119.8 | 0.01 | 5.18 | 2.93 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 4.135 | 0.089 | 0 | 0 | 0 | 6 |
| PL.56510 | PL.56509 | A | 6 A (CWC) | 7.19Y | 119.8 | 0.00 | 5.18 | 2.05 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 4.168 | 0.033 | 0 | 0 | 0 | 1 |
| PL.42259 | PL.56510 | A | 6 A (CWC) | 7.19Y | 119.8 | 0.01 | 5.19 | 2.05 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 4.295 | 0.127 | 14 | 4 | 1 | 1 |
| PL.56689 | PL.56509 | A | #1/0 ACSR | 7.19Y | 119.8 | 0.00 | 5.18 | 0.88 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 4.175 | 0.040 | 1 | 0 | 1 | 5 |
| PL.56690 | PL.56689 | A | #1/0 ACSR | 7.19Y | 119.8 | 0.00 | 5.18 | 0.75 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 4.207 | 0.032 | 2 | 1 | 2 | 4 |
| PL.56511 | PL.56690 | A | #1/0 ACSR | 7.19Y | 119.8 | 0.00 | 5.18 | 0.44 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 4.219 | 0.013 | 2 | 1 | 1 | 2 |
| PL.42143 | PL.56511 | A | #1/0 ACSR | 7.19Y | 119.8 | 0.00 | 5.18 | 0.15 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 4.276 | 0.057 | 1 | 0 | 1 | 1 |
| PL.56495 | PL.56238 | A | #2 ACSR | 7.19Y | 119.9 | 0.00 | 5.14 | 3.65 | 2 | 25 | 7 | 96 | 0.00 | 0.0 | 3.968 | 0.030 | 25 | 7 | 2 | 2 |
| PL.56236 | PL.59397 | A | 6 A (CWC) | 7.19Y | 119.9 | 0.00 | 5.11 | 2.27 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 3.906 | 0.051 | 16 | 4 | 3 | 3 |
| PL.56237 | PL.59397 | A | 6 A (CWC) | 7.19Y | 119.9 | 0.01 | 5.11 | 3.22 | 2 | 22 | 6 | 96 | 0.00 | 0.0 | 3.941 | 0.086 | 22 | 6 | 3 | 3 |
| PL.42252 | PL.41577 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.73 | 16.06 | 11 | 112 | 30 | 97 | 0.00 | 0.0 | 3.508 | 0.006 | 0 | 0 | 0 | 18 |
| PD.6478 | PL.42252 | A | 40QA | 7.22Y | 120.3 | 0.00 | 4.73 | 16.06 | 40 | 112 | 30 | 97 | 0.00 | 0.0 | 3.508 | 0.006 | 0 | 0 | 0 | 18 |
| PL.56599 | PD.6478 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.02 | 4.75 | 16.06 | 11 | 112 | 30 | 97 | 0.01 | 0.0 | 3.531 | 0.023 | 19 | 5 | 2 | 18 |
| PL.56702 | PL.56599 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.03 | 4.77 | 9.93 | 7 | 69 | 19 | 96 | 0.01 | 0.0 | 3.593 | 0.062 | 7 | 2 | 1 | 8 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.56701 | PL.56702 | A | #2 ACSR | 7.21Y | 120.2 | 0.00 | 4.77 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.619 | 0.026 | 0 | 0 | 0 | 0 |
| PL.56703 | PL.56702 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.00 | 4.78 | 8.97 | 6 | 62 | 17 | 96 | 0.00 | 0.0 | 3.598 | 0.006 | 0 | 0 | 0 | 7 |
| PD.6744 | PL.56703 | A | 40QA | 7.21Y | 120.2 | 0.00 | 4.78 | 8.97 | 22 | 62 | 17 | 96 | 0.00 | 0.0 | 3.598 | 0.006 | 0 | 0 | 0 | 7 |
| PL.56700 | PD.6744 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.02 | 4.79 | 8.97 | 6 | 62 | 17 | 96 | 0.01 | 0.0 | 3.647 | 0.049 | 13 | 3 | 1 | 7 |
| PL.56848 | PL.56700 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.01 | 4.80 | 7.14 | 5 | 50 | 13 | 97 | 0.00 | 0.0 | 3.676 | 0.028 | 0 | 0 | 0 | 6 |
| PL.56947 | PL.56848 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.01 | 4.82 | 5.53 | 4 | 39 | 10 | 97 | 0.00 | 0.0 | 3.724 | 0.049 | 0 | 0 | 0 | 5 |
| PL.56946 | PL.56947 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.00 | 4.82 | 1.39 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 3.752 | 0.028 | 10 | 3 | 1 | 1 |
| PL.56948 | PL.56947 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.00 | 4.82 | 4.14 | 3 | 29 | 8 | 96 | 0.00 | 0.0 | 3.754 | 0.030 | 9 | 2 | 1 | 4 |
| PL.56949 | PL.56948 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.01 | 4.83 | 2.87 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 3.811 | 0.056 | 8 | 2 | 1 | 3 |
| PL.56950 | PL.56949 | A | #4 ACSR | 7.21Y | 120.2 | 0.00 | 4.83 | 1.70 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 3.830 | 0.019 | 12 | 3 | 2 | 2 |
| PL.56849 | PL.56848 | A | #4 ACSR | 7.21Y | 120.2 | 0.00 | 4.80 | 1.61 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 3.700 | 0.024 | 0 | 0 | 0 | 1 |
| PL.56223 | PL.56849 | A | #4 ACSR | 7.21Y | 120.2 | 0.00 | 4.81 | 1.61 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 3.750 | 0.050 | 11 | 3 | 1 | 1 |
| PL.63223 | PL.56599 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.75 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.531 | 0.000 | 0 | 0 | 0 | 0 |
| PL.63224 | PL.63223 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.75 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.576 | 0.045 | 0 | 0 | 0 | 0 |
| PL.56600 | PL.56599 | A | #4 ACSR | 7.21Y | 120.2 | 0.01 | 4.76 | 3.36 | 3 | 23 | 6 | 97 | 0.00 | 0.0 | 3.611 | 0.080 | 3 | 1 | 1 | 8 |
| PL.42570 | PL.56600 | A | #4 ACSR | 7.21Y | 120.2 | 0.00 | 4.76 | 2.94 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 3.641 | 0.030 | 0 | 0 | 0 | 7 |
| PL.56606 | PL.42570 | A | #4 ACSR | 7.21Y | 120.2 | 0.01 | 4.78 | 2.94 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 3.741 | 0.100 | 0 | 0 | 0 | 7 |
| PL.56610 | PL.56606 | A | #4 ACSR | 7.21Y | 120.2 | 0.01 | 4.78 | 2.94 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 3.802 | 0.061 | 3 | 1 | 3 | 6 |
| PL.56611 | PL.56610 | A | #4 ACSR | 7.21Y | 120.2 | 0.00 | 4.79 | 2.51 | 2 | 18 | 5 | 96 | 0.00 | 0.0 | 3.844 | 0.042 | 6 | 2 | 1 | 3 |
| PL.56609 | PL.56611 | A | #4 ACSR | 7.21Y | 120.2 | 0.00 | 4.79 | 1.70 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 3.885 | 0.042 | 0 | 0 | 0 | 2 |
| PL.56607 | PL.56609 | A | #4 ACSR | 7.21Y | 120.2 | 0.00 | 4.79 | 1.70 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 3.945 | 0.060 | 0 | 0 | 0 | 2 |
| PL.42571 | PL.56607 | A | #4 ACSR | 7.21Y | 120.2 | 0.00 | 4.80 | 1.70 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 4.001 | 0.055 | 12 | 3 | 2 | 2 |
| PL.56608 | PL.56606 | A | #1/0 ACSR | 7.21Y | 120.2 | 0.00 | 4.78 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.801 | 0.060 | 0 | 0 | 1 | 1 |
| PL.56699 | PL.56600 | A | #2 ACSR | 7.21Y | 120.2 | 0.00 | 4.76 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.641 | 0.030 | 0 | 0 | 0 | 0 |
| PL.42048 | PL.42047 | A | #2 ACSR | 7.22Y | 120.4 | 0.00 | 4.65 | 0.81 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 3.287 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6641 | PL.42048 | A | 40QA | 7.22Y | 120.4 | 0.00 | 4.65 | 0.81 | 2 | 6 | 2 | 95 | 0.00 | 0.0 | 3.287 | 0.006 | 0 | 0 | 0 | 1 |
| PL.64689 | PD.6641 | A | #1/0 ACSR | 7.22Y | 120.4 | 0.00 | 4.65 | 0.81 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 3.306 | 0.019 | 0 | 0 | 0 | 1 |
| PL.64690 | PL.64689 | A | #2 ACSR | 7.22Y | 120.4 | 0.00 | 4.65 | 0.81 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 3.306 | 0.000 | 6 | 2 | 1 | 1 |
| PL.64691 | PL.64690 | A | #1/0 ACSR | 7.22Y | 120.4 | 0.00 | 4.65 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.365 | 0.059 | 0 | 0 | 0 | 0 |
| PL.64692 | PL.64691 | A | #1/0 ACSR | 7.22Y | 120.4 | 0.00 | 4.65 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.407 | 0.042 | 0 | 0 | 0 | 0 |
| PL.56395 | PL.56392 | A | #1/0 ACSR | 7.23Y | 120.5 | 0.00 | 4.51 | 5.02 | 2 | 35 | 9 | 97 | 0.00 | 0.0 | 2.966 | 0.004 | 0 | 0 | 0 | 5 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PD.8314 | PL.56395 | A | 20QA | 7.23Y | 120.5 | 0.00 | 4.51 | 5.02 | 25 | 35 | 9 | 97 | 0.00 | 0.0 | 2.966 | 0.004 | 0 | 0 | 0 | 5 |
| PL.56396 | PD.8314 | A | #1/0 ACSR | 7.23Y | 120.5 | 0.01 | 4.52 | 5.02 | 2 | 35 | 9 | 97 | 0.00 | 0.0 | 3.044 | 0.078 | 0 | 0 | 0 | 5 |
| PL.59357 | PL.56396 | A | #1/0 ACSR | 7.23Y | 120.5 | 0.01 | 4.52 | 5.02 | 2 | 35 | 9 | 97 | 0.00 | 0.0 | 3.108 | 0.065 | 0 | 0 | 0 | 5 |
| PL.59358 | PL.59357 | A | #1/0 ACSR | 7.23Y | 120.5 | 0.00 | 4.53 | 1.34 | 1 | 9 | 3 | 95 | 0.00 | 0.0 | 3.176 | 0.067 | 9 | 3 | 1 | 1 |
| PL.59359 | PL.59357 | A | #1/0 ACSR | 7.23Y | 120.5 | 0.00 | 4.52 | 0.96 | 0 | 7 | 2 | 96 | 0.00 | 0.0 | 3.158 | 0.049 | 7 | 2 | 1 | 1 |
| PL.62251 | PL.59357 | A | #1/0 ACSR | 7.23Y | 120.5 | 0.00 | 4.53 | 2.72 | 1 | 19 | 5 | 97 | 0.00 | 0.0 | 3.149 | 0.041 | 7 | 2 | 1 | 3 |
| PL.62250 | PL.62251 | A | #1/0 ACSR | 7.23Y | 120.5 | 0.00 | 4.53 | 1.69 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 3.191 | 0.042 | 6 | 2 | 1 | 2 |
| PL.62249 | PL.62250 | A | 1/0 AL URD | 7.23Y | 120.5 | 0.00 | 4.53 | 0.81 | 0 | 6 | 1 | 99 | 0.00 | 0.0 | 3.201 | 0.010 | 6 | 2 | 1 | 1 |
| PL.56924 | PL.56922 | C | #2 ACSR | 7.23Y | 120.6 | 0.00 | 4.43 | 1.11 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 2.804 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6720 | PL.56924 | C | 40QA | 7.23Y | 120.6 | 0.00 | 4.43 | 1.11 | 3 | 8 | 2 | 97 | 0.00 | 0.0 | 2.804 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42040 | PD.6720 | C | #2 ACSR | 7.23Y | 120.6 | 0.00 | 4.43 | 1.11 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 2.851 | 0.047 | 8 | 2 | 1 | 1 |
| PL.56841 | PL.56839 | C | 6 A (CWC) | 7.25Y | 120.9 | 0.00 | 4.15 | 1.61 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.636 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6615 | PL.56841 | C | 60QA | 7.25Y | 120.9 | 0.00 | 4.15 | 1.61 | 3 | 11 | 3 | 96 | 0.00 | 0.0 | 2.636 | 0.006 | 0 | 0 | 0 | 1 |
| PL.52126 | PD.6615 | C | 6 A (CWC) | 7.25Y | 120.8 | 0.00 | 4.15 | 1.61 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.673 | 0.037 | 11 | 3 | 1 | 1 |
| PL.56722 | PL.56724 | C | 6 A (CWC) | 7.28Y | 121.3 | 0.00 | 3.74 | 2.27 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 2.395 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6637 | PL.56722 | C | 60QA | 7.28Y | 121.3 | 0.00 | 3.74 | 2.27 | 4 | 16 | 4 | 97 | 0.00 | 0.0 | 2.395 | 0.006 | 0 | 0 | 0 | 3 |
| PL.52177 | PD.6637 | C | 6 A (CWC) | 7.28Y | 121.3 | 0.00 | 3.74 | 2.27 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 2.426 | 0.032 | 2 | 1 | 1 | 3 |
| PL.52178 | PL.52177 | C | 6 A (CWC) | 7.28Y | 121.3 | 0.00 | 3.74 | 1.99 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 2.463 | 0.036 | 14 | 4 | 2 | 2 |
| PL.41321 | PL.42037 | C | #1/0 ACSR | 7.30Y | 121.6 | 0.00 | 3.35 | 0.47 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 2.192 | 0.025 | 3 | 1 | 1 | 1 |
| PL.41751 | PL.56962 | ABC | #1/0 ACSR | 7.31Y | 121.8 | 0.01 | 3.16 | 37.44 | 16 | 793 | 214 | 97 | 0.07 | 0.0 | 2.068 | 0.019 | 0 | 0 | 0 | 105 |
| PL.41789 | PL.41751 | ABC | #1/0 ACSR | 7.31Y | 121.8 | 0.00 | 3.16 | 37.44 | 16 | 793 | 214 | 97 | 0.02 | 0.0 | 2.073 | 0.006 | 0 | 0 | 0 | 105 |
| PD.6812 | PL.41789 | ABC | 50L | 7.31Y | 121.8 | 0.00 | 3.16 | 37.44 | 75 | 793 | 214 | 97 | 0.00 | 0.0 | 2.073 | 0.006 | 0 | 0 | 0 | 105 |
| PL.51929 | PD.6812 | ABC | #1/0 ACSR | 7.31Y | 121.8 | 0.04 | 3.20 | 37.44 | 16 | 793 | 214 | 97 | 0.23 | 0.0 | 2.135 | 0.061 | 13 | 3 | 1 | 105 |
| PL.51932 | PL.51929 | ABC | #1/0 ACSR | 7.31Y | 121.8 | 0.04 | 3.24 | 36.84 | 16 | 780 | 210 | 97 | 0.20 | 0.0 | 2.191 | 0.056 | 0 | 0 | 0 | 104 |
| PL.56717 | PL.51932 | C | #2 ACSR | 7.31Y | 121.8 | 0.00 | 3.24 | 2.00 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 2.195 | 0.003 | 0 | 0 | 0 | 2 |
| PD.8330 | PL.56717 | C | 10QA | 7.31Y | 121.8 | 0.00 | 3.24 | 2.00 | 0 | 14 | 4 | 96 | 0.00 | 0.0 | 2.195 | 0.003 | 0 | 0 | 0 | 2 |
| PL.56718 | PD.8330 | C | #2 ACSR | 7.31Y | 121.8 | 0.00 | 3.24 | 2.00 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 2.231 | 0.036 | 0 | 0 | 0 | 2 |
| PL.56716 | PL.56718 | C | #2 ACSR | 7.31Y | 121.8 | 0.00 | 3.24 | 2.00 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 2.270 | 0.040 | 14 | 4 | 2 | 2 |
| PL.51933 | PL.51932 | ABC | #1/0 ACSR | 7.30Y | 121.7 | 0.03 | 3.27 | 36.18 | 16 | 766 | 206 | 97 | 0.16 | 0.0 | 2.236 | 0.045 | 0 | 0 | 0 | 102 |
| PL.51931 | PL.51933 | ABC | #1/0 ACSR | 7.30Y | 121.7 | 0.02 | 3.29 | 36.18 | 16 | 766 | 206 | 97 | 0.12 | 0.0 | 2.271 | 0.036 | 9 | 2 | 1 | 102 |
| PL.41432 | PL.51931 | ABC | #1/0 ACSR | 7.30Y | 121.6 | 0.09 | 3.38 | 35.12 | 15 | 743 | 200 | 97 | 0.46 | 0.1 | 2.411 | 0.140 | 0 | 0 | 0 | 99 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.41433 | PL.41432 | ABC | #1/0 ACSR | 7.30Y | 121.6 | 0.04 | 3.41 | 35.12 | 15 | 743 | 199 | 97 | 0.19 | 0.0 | 2.467 | 0.057 | 0 | 0 | 0 | 99 |
| PL.41434 | PL.41433 | A | #2 ACSR | 7.30Y | 121.6 | 0.00 | 3.41 | 1.28 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.473 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6625 | PL.41434 | A | 25QA | 7.30Y | 121.6 | 0.00 | 3.41 | 1.28 | 5 | 9 | 2 | 98 | 0.00 | 0.0 | 2.473 | 0.006 | 0 | 0 | 0 | 2 |
| PL.59276 | PD.6625 | A | #2 ACSR | 7.30Y | 121.6 | 0.00 | 3.41 | 1.28 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.511 | 0.038 | 9 | 2 | 2 | 2 |
| PL.41435 | PL.41433 | ABC | #1/0 ACSR | 7.29Y | 121.5 | 0.06 | 3.47 | 34.70 | 15 | 733 | 197 | 97 | 0.31 | 0.0 | 2.565 | 0.098 | 0 | 0 | 0 | 97 |
| PL.41436 | PL.41435 | ABC | #1/0 ACSR | 7.29Y | 121.5 | 0.05 | 3.52 | 34.20 | 15 | 723 | 194 | 97 | 0.23 | 0.0 | 2.640 | 0.075 | 15 | 4 | 2 | 96 |
| PL.41779 | PL.41436 | A | #2 ACSR | 7.29Y | 121.5 | 0.00 | 3.52 | 4.22 | 2 | 30 | 8 | 97 | 0.00 | 0.0 | 2.646 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6613 | PL.41779 | A | 40QA | 7.29Y | 121.5 | 0.00 | 3.52 | 4.22 | 11 | 30 | 8 | 97 | 0.00 | 0.0 | 2.646 | 0.006 | 0 | 0 | 0 | 2 |
| PL.41780 | PD.6613 | A | #2 ACSR | 7.29Y | 121.5 | 0.00 | 3.52 | 4.22 | 2 | 30 | 8 | 97 | 0.00 | 0.0 | 2.666 | 0.020 | 0 | 0 | 0 | 2 |
| PL.51750 | PL.41780 | A | #2 ACSR | 7.29Y | 121.5 | 0.01 | 3.53 | 4.22 | 2 | 30 | 8 | 97 | 0.00 | 0.0 | 2.744 | 0.078 | 18 | 5 | 1 | 2 |
| PL.56243 | PL.51750 | A | #2 ACSR | 7.29Y | 121.5 | 0.00 | 3.53 | 1.71 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 2.787 | 0.044 | 0 | 0 | 0 | 1 |
| PL.56244 | PL.56243 | A | #1/0 ACSR | 7.29Y | 121.5 | 0.00 | 3.54 | 1.71 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 2.951 | 0.164 | 12 | 3 | 1 | 1 |
| PL.56935 | PL.41436 | C | #2 ACSR | 7.29Y | 121.5 | 0.00 | 3.52 | 25.07 | 14 | 177 | 47 | 97 | 0.01 | 0.0 | 2.646 | 0.006 | 0 | 0 | 0 | 24 |
| PD.8336 | PL.56935 | C | 40QA | 7.29Y | 121.5 | 0.00 | 3.52 | 25.07 | 63 | 177 | 47 | 97 | 0.00 | 0.0 | 2.646 | 0.006 | 0 | 0 | 0 | 24 |
| PL.56936 | PD.8336 | C | #2 ACSR | 7.28Y | 121.4 | 0.09 | 3.62 | 25.07 | 14 | 177 | 47 | 97 | 0.12 | 0.1 | 2.763 | 0.117 | 3 | 1 | 2 | 24 |
| PL.56937 | PL.56936 | C | #2 ACSR | 7.28Y | 121.3 | 0.09 | 3.71 | 24.63 | 14 | 173 | 46 | 97 | 0.12 | 0.1 | 2.885 | 0.122 | 0 | 0 | 0 | 22 |
| PL.56938 | PL.56937 | C | #2 ACSR | 7.28Y | 121.3 | 0.00 | 3.71 | 1.62 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.935 | 0.050 | 11 | 3 | 1 | 1 |
| PL.56939 | PL.56937 | C | #2 ACSR | 7.28Y | 121.3 | 0.00 | 3.71 | 0.57 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 2.948 | 0.064 | 4 | 1 | 1 | 1 |
| PL.56940 | PL.56937 | C | #2 ACSR | 7.28Y | 121.3 | 0.03 | 3.74 | 22.44 | 13 | 158 | 42 | 97 | 0.03 | 0.0 | 2.928 | 0.043 | 0 | 0 | 0 | 20 |
| PL.41658 | PL.56940 | C | #2 ACSR | 7.27Y | 121.2 | 0.03 | 3.77 | 20.08 | 11 | 141 | 37 | 97 | 0.03 | 0.0 | 2.969 | 0.041 | 0 | 0 | 0 | 19 |
| PL.41836 | PL.41658 | C | #4 ACSR | 7.27Y | 121.2 | 0.00 | 3.77 | 1.16 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 3.016 | 0.047 | 8 | 2 | 1 | 1 |
| PL.41659 | PL.41658 | C | #2 ACSR | 7.27Y | 121.2 | 0.05 | 3.82 | 18.91 | 11 | 133 | 35 | 97 | 0.05 | 0.0 | 3.053 | 0.084 | 6 | 2 | 1 | 18 |
| PL.41660 | PL.41659 | C | #2 ACSR | 7.27Y | 121.2 | 0.01 | 3.83 | 18.09 | 10 | 127 | 33 | 97 | 0.01 | 0.0 | 3.081 | 0.028 | 18 | 5 | 2 | 17 |
| PL.62048 | PL.41660 | C | #2 ACSR | 7.27Y | 121.1 | 0.03 | 3.86 | 15.47 | 9 | 109 | 28 | 97 | 0.02 | 0.0 | 3.139 | 0.058 | 0 | 0 | 1 | 15 |
| PL.61542 | PL.62048 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.86 | 1.27 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 3.214 | 0.075 | 0 | 0 | 0 | 1 |
| PL.41790 | PL.61542 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.86 | 1.27 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 3.268 | 0.054 | 9 | 2 | 1 | 1 |
| PL.61543 | PL.62048 | C | #4 ACSR | 7.27Y | 121.1 | 0.03 | 3.89 | 6.61 | 5 | 46 | 12 | 97 | 0.01 | 0.0 | 3.273 | 0.134 | 11 | 3 | 2 | 6 |
| PL.56614 | PL.61543 | C | #2 ACSR | 7.27Y | 121.1 | 0.00 | 3.89 | 1.25 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 3.341 | 0.068 | 9 | 2 | 1 | 1 |
| PL.56613 | PL.61543 | C | #1/0 ACSR | 7.27Y | 121.1 | 0.00 | 3.89 | 1.44 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 3.277 | 0.004 | 0 | 0 | 0 | 1 |
| PD.8313 | PL.56613 | C | 20QA | 7.27Y | 121.1 | 0.00 | 3.89 | 1.44 | 7 | 10 | 3 | 96 | 0.00 | 0.0 | 3.277 | 0.004 | 0 | 0 | 0 | 1 |
| PL.57481 | PD.8313 | C | #1/0 ACSR | 7.27Y | 121.1 | 0.00 | 3.89 | 1.44 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 3.365 | 0.088 | 10 | 3 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.56612 | PL.61543 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.90 | 2.38 | 2 | 17 | 4 | 97 | 0.00 | 0.0 | 3.329 | 0.056 | 8 | 2 | 1 | 2 |
| PL.56615 | PL.56612 | C | 1/0 AL URD | 7.27Y | 121.1 | 0.00 | 3.90 | 1.25 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 3.348 | 0.019 | 9 | 2 | 1 | 1 |
| PL.61544 | PL.62048 | C | #2 ACSR | 7.27Y | 121.1 | 0.04 | 3.90 | 7.56 | 4 | 53 | 14 | 97 | 0.01 | 0.0 | 3.298 | 0.159 | 0 | 0 | 0 | 7 |
| PL.64087 | PL.61544 | C | #2 ACSR | 7.27Y | 121.1 | 0.00 | 3.90 | 2.01 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 3.412 | 0.114 | 14 | 4 | 1 | 1 |
| PL.41334 | PL.61544 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.90 | 0.37 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 3.355 | 0.058 | 3 | 1 | 1 | 1 |
| PL.56245 | PL.61544 | C | #2 ACSR | 7.27Y | 121.1 | 0.02 | 3.92 | 5.18 | 3 | 37 | 9 | 97 | 0.01 | 0.0 | 3.423 | 0.126 | 0 | 0 | 0 | 5 |
| PL.56246 | PL.56245 | C | #2 ACSR | 7.26Y | 121.1 | 0.01 | 3.92 | 3.65 | 2 | 26 | 7 | 97 | 0.00 | 0.0 | 3.498 | 0.075 | 9 | 2 | 1 | 4 |
| PL.56391 | PL.56246 | C | #2 ACSR | 7.26Y | 121.1 | 0.00 | 3.93 | 2.34 | 1 | 16 | 4 | 97 | 0.00 | 0.0 | 3.568 | 0.070 | 16 | 4 | 3 | 3 |
| PL.56247 | PL.56245 | C | #2 ACSR | 7.27Y | 121.1 | 0.00 | 3.92 | 1.55 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 3.440 | 0.016 | 11 | 3 | 1 | 1 |
| PL.56589 | PL.56245 | C | #2 ACSR | 7.27Y | 121.1 | -0.00 | 3.92 | -0.08 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 3.447 | 0.024 | 0 | 0 | 0 | 0 |
| PL.56590 | PL.56589 | C | #2 ACSR | 7.27Y | 121.1 | 0.00 | 3.92 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.474 | 0.027 | 0 | 0 | 0 | 0 |
| PL.56591 | PL.56589 | C | 1/0 AL URD | 7.27Y | 121.1 | -0.00 | 3.92 | -0.08 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 3.599 | 0.152 | 0 | 0 | 0 | 0 |
| PL.42032 | PL.56940 | C | #2 ACSR | 7.28Y | 121.3 | 0.00 | 3.74 | 2.36 | 1 | 17 | 4 | 97 | 0.00 | 0.0 | 2.946 | 0.019 | 17 | 4 | 1 | 1 |
| PL.56485 | PL.41436 | ABC | #1/0 ACSR | 7.29Y | 121.5 | 0.02 | 3.54 | 23.73 | 10 | 501 | 135 | 97 | 0.08 | 0.0 | 2.695 | 0.055 | 30 | 8 | 3 | 68 |
| PL.56778 | PL.56485 | ABC | #1/0 ACSR | 7.29Y | 121.4 | 0.02 | 3.56 | 22.32 | 10 | 471 | 127 | 97 | 0.06 | 0.0 | 2.741 | 0.045 | 0 | 0 | 1 | 65 |
| PL.56779 | PL.56778 | ABC | #1/0 ACSR | 7.29Y | 121.4 | 0.02 | 3.58 | 22.32 | 10 | 471 | 127 | 97 | 0.05 | 0.0 | 2.778 | 0.038 | 0 | 0 | 0 | 64 |
| PL.42263 | PL.56779 | ABC | #1/0 ACSR | 7.28Y | 121.4 | 0.02 | 3.60 | 22.32 | 10 | 471 | 127 | 97 | 0.06 | 0.0 | 2.826 | 0.048 | 6 | 2 | 1 | 64 |
| PL.41791 | PL.42263 | ABC | #1/0 ACSR | 7.28Y | 121.4 | 0.02 | 3.61 | 21.31 | 9 | 450 | 121 | 97 | 0.05 | 0.0 | 2.866 | 0.041 | 0 | 0 | 0 | 61 |
| PL.56941 | PL.41791 | ABC | #1/0 ACSR | 7.28Y | 121.4 | 0.02 | 3.63 | 21.31 | 9 | 450 | 121 | 97 | 0.05 | 0.0 | 2.909 | 0.042 | 0 | 0 | 0 | 61 |
| PL.56943 | PL.56941 | ABC | #1/0 ACSR | 7.28Y | 121.3 | 0.03 | 3.66 | 20.69 | 9 | 437 | 117 | 97 | 0.09 | 0.0 | 2.986 | 0.078 | 13 | 4 | 2 | 59 |
| PL.56944 | PL.56943 | ABC | #1/0 ACSR | 7.28Y | 121.3 | 0.04 | 3.69 | 20.06 | 9 | 423 | 114 | 97 | 0.11 | 0.0 | 3.092 | 0.106 | 0 | 0 | 0 | 57 |
| PL.56945 | PL.56944 | ABC | #1/0 ACSR | 7.28Y | 121.3 | 0.02 | 3.71 | 20.06 | 9 | 423 | 113 | 97 | 0.05 | 0.0 | 3.144 | 0.051 | 0 | 0 | 0 | 57 |
| PL.52114 | PL.56945 | ABC | #1/0 ACSR | 7.28Y | 121.3 | 0.02 | 3.74 | 20.06 | 9 | 423 | 113 | 97 | 0.07 | 0.0 | 3.213 | 0.070 | 9 | 2 | 2 | 57 |
| PL.52113 | PL.52114 | ABC | #1/0 ACSR | 7.27Y | 121.2 | 0.03 | 3.77 | 15.49 | 7 | 327 | 88 | 97 | 0.07 | 0.0 | 3.323 | 0.110 | 0 | 0 | 0 | 43 |
| PL.42559 | PL.52113 | A | #4 ACSR | 7.27Y | 121.2 | 0.00 | 3.77 | 3.30 | 3 | 23 | 6 | 97 | 0.00 | 0.0 | 3.329 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6630 | PL.42559 | A | 10QA | 7.27Y | 121.2 | 0.00 | 3.77 | 3.30 | 0 | 23 | 6 | 97 | 0.00 | 0.0 | 3.329 | 0.006 | 0 | 0 | 0 | 2 |
| PL.56616 | PD.6630 | A | #4 ACSR | 7.27Y | 121.2 | 0.01 | 3.78 | 3.30 | 3 | 23 | 6 | 97 | 0.00 | 0.0 | 3.441 | 0.112 | 23 | 6 | 2 | 2 |
| PL.42558 | PL.52113 | ABC | #1/0 ACSR | 7.27Y | 121.2 | 0.03 | 3.79 | 14.27 | 6 | 301 | 81 | 97 | 0.06 | 0.0 | 3.428 | 0.105 | 0 | 0 | 0 | 40 |
| PL.42561 | PL.42558 | A | #2 ACSR | 7.27Y | 121.2 | 0.00 | 3.79 | 0.46 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 3.433 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6614 | PL.42561 | A | 10QA | 7.27Y | 121.2 | 0.00 | 3.79 | 0.46 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 3.433 | 0.006 | 0 | 0 | 0 | 2 |
| PL.51930 | PD.6614 | A | #2 ACSR | 7.27Y | 121.2 | 0.00 | 3.79 | 0.46 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 3.483 | 0.050 | 3 | 1 | 2 | 2 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.57906 | PL.42558 | ABC | #1/0 ACSR | 7.27Y | 121.2 | 0.01 | 3.81 | 11.19 | 5 | 236 | 63 | 97 | 0.02 | 0.0 | 3.495 | 0.067 | 10 | 3 | 1 | 31 |
| PL.57907 | PL.57906 | ABC | #1/0 ACSR | 7.27Y | 121.2 | 0.02 | 3.83 | 10.70 | 5 | 226 | 60 | 97 | 0.03 | 0.0 | 3.602 | 0.107 | 9 | 2 | 1 | 30 |
| PL.42566 | PL.57907 | ABC | #1/0 ACSR | 7.27Y | 121.2 | 0.01 | 3.83 | 10.26 | 4 | 216 | 58 | 97 | 0.01 | 0.0 | 3.635 | 0.032 | 0 | 0 | 0 | 29 |
| PL.42567 | PL.42566 | ABC | #1/0 ACSR | 7.27Y | 121.2 | 0.01 | 3.84 | 10.26 | 4 | 216 | 58 | 97 | 0.01 | 0.0 | 3.673 | 0.038 | 0 | 0 | 0 | 29 |
| PL.42568 | PL.42567 | ABC | #1/0 ACSR | 7.27Y | 121.2 | 0.00 | 3.84 | 10.26 | 4 | 216 | 58 | 97 | 0.00 | 0.0 | 3.673 | 0.000 | 2 | 0 | 1 | 29 |
| PL.42569 | PL.42568 | C | #4 ACSR | 7.27Y | 121.2 | 0.00 | 3.84 | 1.90 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 3.679 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6655 | PL.42569 | C | 30QA | 7.27Y | 121.2 | 0.00 | 3.84 | 1.90 | 6 | 13 | 4 | 96 | 0.00 | 0.0 | 3.679 | 0.006 | 0 | 0 | 0 | 2 |
| PL.56400 | PD.6655 | C | #4 ACSR | 7.27Y | 121.2 | 0.01 | 3.85 | 1.90 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 3.799 | 0.120 | 11 | 3 | 1 | 2 |
| PL.56401 | PL.56400 | C | #4 ACSR | 7.27Y | 121.2 | 0.00 | 3.85 | 0.34 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 3.913 | 0.114 | 2 | 1 | 1 | 1 |
| PL.42007 | PL.42568 | ABC | #1/0 ACSR | 7.27Y | 121.1 | 0.02 | 3.86 | 9.54 | 4 | 201 | 54 | 97 | 0.02 | 0.0 | 3.771 | 0.098 | 0 | 0 | 0 | 26 |
| PL.42010 | PL.42007 | C | #2 ACSR | 7.27Y | 121.1 | 0.00 | 3.86 | 1.30 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 3.777 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6767 | PL.42010 | C | 30QA | 7.27Y | 121.1 | 0.00 | 3.86 | 1.30 | 4 | 9 | 2 | 98 | 0.00 | 0.0 | 3.777 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42011 | PD.6767 | C | #2 ACSR | 7.27Y | 121.1 | 0.00 | 3.86 | 1.30 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 3.923 | 0.146 | 9 | 2 | 1 | 1 |
| PL.42012 | PL.42007 | ABC | #1/0 ACSR | 7.27Y | 121.1 | 0.01 | 3.87 | 7.88 | 3 | 166 | 44 | 97 | 0.01 | 0.0 | 3.864 | 0.093 | 26 | 7 | 3 | 23 |
| PL.56233 | PL.42012 | ABC | #1/0 ACSR | 7.27Y | 121.1 | 0.01 | 3.88 | 6.65 | 3 | 140 | 37 | 97 | 0.01 | 0.0 | 3.960 | 0.096 | 7 | 2 | 1 | 20 |
| PL.56232 | PL.56233 | ABC | #1/0 ACSR | 7.27Y | 121.1 | 0.00 | 3.88 | 3.60 | 2 | 76 | 20 | 97 | 0.00 | 0.0 | 4.015 | 0.055 | 2 | 0 | 1 | 13 |
| PL.51969 | PL.56232 | B | 6 A (CWC) | 7.27Y | 121.1 | 0.00 | 3.89 | 10.58 | 8 | 74 | 20 | 97 | 0.00 | 0.0 | 4.021 | 0.006 | 0 | 0 | 0 | 12 |
| PD.6635 | PL.51969 | B | 40QA | 7.27Y | 121.1 | 0.00 | 3.89 | 10.58 | 26 | 74 | 20 | 97 | 0.00 | 0.0 | 4.021 | 0.006 | 0 | 0 | 0 | 12 |
| PL.41305 | PD.6635 | B | 6 A (CWC) | 7.27Y | 121.1 | 0.02 | 3.91 | 10.58 | 8 | 74 | 20 | 97 | 0.01 | 0.0 | 4.077 | 0.056 | 16 | 4 | 2 | 12 |
| PL.56229 | PL.41305 | B | 6 A (CWC) | 7.26Y | 121.1 | 0.02 | 3.93 | 7.29 | 5 | 51 | 14 | 96 | 0.01 | 0.0 | 4.148 | 0.071 | 12 | 3 | 1 | 8 |
| PL.56230 | PL.56229 | B | 6 A (CWC) | 7.26Y | 121.1 | 0.01 | 3.95 | 5.56 | 4 | 39 | 10 | 97 | 0.00 | 0.0 | 4.205 | 0.057 | 7 | 2 | 1 | 7 |
| PL.56231 | PL.56230 | B | 6 A (CWC) | 7.26Y | 121.0 | 0.01 | 3.95 | 4.51 | 3 | 32 | 8 | 97 | 0.00 | 0.0 | 4.249 | 0.044 | 0 | 0 | 0 | 6 |
| PL.41608 | PL.56231 | B | 6 A (CWC) | 7.26Y | 121.0 | 0.02 | 3.97 | 4.51 | 3 | 32 | 8 | 97 | 0.00 | 0.0 | 4.347 | 0.098 | 2 | 0 | 1 | 6 |
| PL.42120 | PL.41608 | B | 6 A (CWC) | 7.26Y | 121.0 | 0.00 | 3.98 | 1.08 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 4.390 | 0.043 | 8 | 2 | 1 | 1 |
| PL.41609 | PL.41608 | B | 6 A (CWC) | 7.26Y | 121.0 | 0.00 | 3.98 | 3.18 | 2 | 22 | 6 | 96 | 0.00 | 0.0 | 4.387 | 0.040 | 10 | 3 | 1 | 4 |
| PL.41689 | PL.41609 | B | 6 A (CWC) | 7.26Y | 121.0 | 0.00 | 3.98 | 1.81 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 4.422 | 0.035 | 0 | 0 | 0 | 3 |
| PL.41499 | PL.41689 | B | 6 A (CWC) | 7.26Y | 121.0 | 0.00 | 3.98 | 0.58 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 4.551 | 0.128 | 4 | 1 | 1 | 2 |
| PL.41016 | PL.41499 | B | #2 ACSR | 7.26Y | 121.0 | 0.00 | 3.98 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.697 | 0.146 | 0 | 0 | 1 | 1 |
| PL.41500 | PL.41499 | B | 6 A (CWC) | 7.26Y | 121.0 | 0.00 | 3.98 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.598 | 0.047 | 0 | 0 | 0 | 0 |
| PL.41695 | PL.41689 | B | #2 ACSR | 7.26Y | 121.0 | 0.00 | 3.98 | 1.23 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 4.462 | 0.040 | 9 | 2 | 1 | 1 |
| PL.41837 | PL.41305 | B | 6 A (CWC) | 7.27Y | 121.1 | 0.00 | 3.91 | 0.55 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 4.167 | 0.090 | 4 | 1 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.41353 | PL.41305 | B | 6 A (CWC) | 7.27Y | 121.1 | 0.00 | 3.91 | 0.44 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 4.129 | 0.052 | 3 | 1 | 1 | 1 |
| PL.56234 | PL.56233 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.88 | 2.15 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 3.966 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6633 | PL.56234 | C | 10QA | 7.27Y | 121.1 | 0.00 | 3.88 | 2.15 | 0 | 15 | 4 | 97 | 0.00 | 0.0 | 3.966 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42014 | PD.6633 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.89 | 2.15 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 4.040 | 0.074 | 15 | 4 | 2 | 2 |
| PL.56235 | PL.56233 | A | #4 ACSR | 7.27Y | 121.1 | 0.02 | 3.90 | 6.01 | 5 | 42 | 11 | 97 | 0.01 | 0.0 | 4.022 | 0.063 | 0 | 0 | 0 | 4 |
| PL.41278 | PL.56235 | A | #4/0 ACSR | 7.27Y | 121.1 | 0.00 | 3.90 | 0.22 | 0 | 2 | 0 | 100 | 0.00 | 0.0 | 4.121 | 0.099 | 2 | 0 | 1 | 1 |
| PL.42033 | PL.56235 | A | #4 ACSR | 7.26Y | 121.1 | 0.02 | 3.92 | 5.80 | 4 | 41 | 11 | 97 | 0.01 | 0.0 | 4.117 | 0.095 | 0 | 0 | 0 | 3 |
| PL.42035 | PL.42033 | A | #4/0 ACSR | 7.26Y | 121.1 | 0.00 | 3.92 | 2.04 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 4.123 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6634 | PL.42035 | A | 25QA | 7.26Y | 121.1 | 0.00 | 3.92 | 2.04 | 8 | 14 | 4 | 96 | 0.00 | 0.0 | 4.123 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42036 | PD.6634 | A | #4/0 ACSR | 7.26Y | 121.1 | 0.00 | 3.92 | 2.04 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 4.253 | 0.130 | 14 | 4 | 2 | 2 |
| PL.42034 | PL.42033 | A | #4 ACSR | 7.26Y | 121.1 | 0.01 | 3.93 | 3.76 | 3 | 26 | 7 | 97 | 0.00 | 0.0 | 4.238 | 0.121 | 26 | 7 | 1 | 1 |
| PL.41543 | PL.42012 | C | #2 ACSR | 7.27Y | 121.1 | 0.00 | 3.87 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.899 | 0.035 | 0 | 0 | 0 | 0 |
| PL.42013 | PL.42012 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.87 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.870 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6632 | PL.42013 | C | 10QA | 7.27Y | 121.1 | 0.00 | 3.87 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.870 | 0.006 | 0 | 0 | 0 | 0 |
| PL.63464 | PD.6632 | C | #4 ACSR | 7.27Y | 121.1 | 0.00 | 3.87 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.898 | 0.029 | 0 | 0 | 0 | 0 |
| PL.42008 | PL.42007 | A | #2 ACSR | 7.27Y | 121.1 | 0.00 | 3.86 | 3.68 | 2 | 26 | 7 | 97 | 0.00 | 0.0 | 3.777 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6631 | PL.42008 | A | 10QA | 7.27Y | 121.1 | 0.00 | 3.86 | 3.68 | 0 | 26 | 7 | 97 | 0.00 | 0.0 | 3.777 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42009 | PD.6631 | A | #2 ACSR | 7.27Y | 121.1 | 0.00 | 3.86 | 3.68 | 2 | 26 | 7 | 97 | 0.00 | 0.0 | 3.795 | 0.018 | 26 | 7 | 2 | 2 |
| PL.42562 | PL.42558 | A | 6 A (CWC) | 7.27Y | 121.2 | 0.00 | 3.80 | 8.80 | 6 | 62 | 17 | 96 | 0.00 | 0.0 | 3.433 | 0.006 | 0 | 0 | 0 | 7 |
| PD.6425 | PL.42562 | A | 20QA | 7.27Y | 121.2 | 0.00 | 3.80 | 8.80 | 44 | 62 | 17 | 96 | 0.00 | 0.0 | 3.433 | 0.006 | 0 | 0 | 0 | 7 |
| PL.42563 | PD.6425 | A | 6 A (CWC) | 7.27Y | 121.2 | 0.03 | 3.83 | 8.80 | 6 | 62 | 17 | 96 | 0.01 | 0.0 | 3.528 | 0.094 | 18 | 5 | 1 | 7 |
| PL.42564 | PL.42563 | A | 6 A (CWC) | 7.27Y | 121.2 | 0.00 | 3.83 | 0.86 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 3.568 | 0.040 | 0 | 0 | 0 | 1 |
| PL.42565 | PL.42564 | A | 6 A (CWC) | 7.27Y | 121.2 | 0.00 | 3.83 | 0.86 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 3.663 | 0.095 | 6 | 2 | 1 | 1 |
| PL.56617 | PL.42563 | A | #2 ACSR | 7.27Y | 121.2 | 0.01 | 3.84 | 5.42 | 3 | 38 | 10 | 97 | 0.00 | 0.0 | 3.618 | 0.090 | 38 | 10 | 5 | 5 |
| PL.42560 | PL.52113 | C | #4 ACSR | 7.27Y | 121.2 | 0.00 | 3.77 | 0.35 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 3.329 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6629 | PL.42560 | C | 10QA | 7.27Y | 121.2 | 0.00 | 3.77 | 0.35 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 3.329 | 0.006 | 0 | 0 | 0 | 1 |
| PL.52116 | PD.6629 | C | #4 ACSR | 7.27Y | 121.2 | 0.00 | 3.77 | 0.35 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 3.361 | 0.033 | 2 | 1 | 1 | 1 |
| PL.52112 | PL.52114 | C | #4/0 ACSR | 7.28Y | 121.3 | 0.00 | 3.74 | 12.51 | 4 | 88 | 24 | 96 | 0.00 | 0.0 | 3.219 | 0.006 | 0 | 0 | 0 | 12 |
| PD.6534 | PL.52112 | C | 30QA | 7.28Y | 121.3 | 0.00 | 3.74 | 12.51 | 42 | 88 | 24 | 96 | 0.00 | 0.0 | 3.219 | 0.006 | 0 | 0 | 0 | 12 |
| PL.41792 | PD.6534 | C | #4/0 ACSR | 7.28Y | 121.3 | 0.00 | 3.74 | 12.51 | 4 | 88 | 24 | 96 | 0.00 | 0.0 | 3.233 | 0.014 | 0 | 0 | 0 | 12 |
| PL.41793 | PL.41792 | C | #4/0 ACSR | 7.27Y | 121.2 | 0.01 | 3.75 | 12.51 | 4 | 88 | 24 | 96 | 0.00 | 0.0 | 3.289 | 0.056 | 2 | 1 | 2 | 12 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.52115 | PL.41793 | C | #4/0 ACSR | 7.27Y | 121.2 | 0.01 | 3.76 | 12.21 | 4 | 86 | 23 | 97 | 0.00 | 0.0 | 3.339 | 0.050 | 10 | 3 | 1 | 10 |
| PL.52121 | PL.52115 | C | #4/0 ACSR | 7.27Y | 121.2 | 0.02 | 3.78 | 10.86 | 3 | 76 | 20 | 97 | 0.01 | 0.0 | 3.451 | 0.112 | 0 | 0 | 0 | 9 |
| PL.52120 | PL.52121 | C | 6 A (CWC) | 7.27Y | 121.2 | 0.00 | 3.78 | 0.65 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 3.542 | 0.091 | 5 | 1 | 1 | 1 |
| PL.52123 | PL.52121 | C | #4/0 ACSR | 7.27Y | 121.2 | 0.00 | 3.78 | 2.56 | 1 | 18 | 5 | 96 | 0.00 | 0.0 | 3.561 | 0.110 | 7 | 2 | 1 | 2 |
| PL.52117 | PL.52123 | C | #4/0 ACSR | 7.27Y | 121.2 | 0.00 | 3.78 | 1.57 | 0 | 11 | 3 | 96 | 0.00 | 0.0 | 3.645 | 0.084 | 11 | 3 | 1 | 1 |
| PL.52124 | PL.52117 | C | #4/0 ACSR | 7.27Y | 121.2 | 0.00 | 3.78 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.900 | 0.254 | 0 | 0 | 0 | 0 |
| PL.52119 | PL.52121 | C | #4/0 ACSR | 7.27Y | 121.2 | 0.00 | 3.78 | 1.32 | 0 | 9 | 2 | 98 | 0.00 | 0.0 | 3.542 | 0.091 | 9 | 2 | 2 | 2 |
| PL.66121 | PL.52121 | C | #4 ACSR | 7.27Y | 121.2 | 0.01 | 3.78 | 6.32 | 5 | 44 | 12 | 96 | 0.00 | 0.0 | 3.482 | 0.030 | 5 | 1 | 1 | 4 |
| PL.66122 | PL.66121 | C | #4 ACSR | 7.27Y | 121.2 | 0.02 | 3.80 | 5.54 | 4 | 39 | 10 | 97 | 0.00 | 0.0 | 3.572 | 0.091 | 25 | 7 | 2 | 3 |
| PL.52118 | PL.66122 | C | #4 ACSR | 7.27Y | 121.2 | 0.00 | 3.80 | 2.05 | 2 | 14 | 4 | 96 | 0.00 | 0.0 | 3.598 | 0.026 | 14 | 4 | 1 | 1 |
| PL.56942 | PL.56941 | C | #2 ACSR | 7.28Y | 121.4 | 0.00 | 3.63 | 1.86 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 2.914 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6628 | PL.56942 | C | 10QA | 7.28Y | 121.4 | 0.00 | 3.63 | 1.86 | 0 | 13 | 4 | 96 | 0.00 | 0.0 | 2.914 | 0.006 | 0 | 0 | 0 | 2 |
| PL.52111 | PD.6628 | C | #2 ACSR | 7.28Y | 121.4 | 0.00 | 3.63 | 1.86 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 2.947 | 0.033 | 13 | 4 | 2 | 2 |
| PL.51752 | PL.42263 | C | #4 ACSR | 7.28Y | 121.4 | 0.00 | 3.60 | 2.18 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 2.860 | 0.034 | 5 | 1 | 1 | 2 |
| PL.51754 | PL.51752 | C | #4 ACSR | 7.28Y | 121.4 | 0.00 | 3.60 | 1.44 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 2.866 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6627 | PL.51754 | C | 25QA | 7.28Y | 121.4 | 0.00 | 3.60 | 1.44 | 6 | 10 | 3 | 96 | 0.00 | 0.0 | 2.866 | 0.006 | 0 | 0 | 0 | 1 |
| PL.51755 | PD.6627 | C | #4 ACSR | 7.28Y | 121.4 | 0.00 | 3.60 | 1.44 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 2.953 | 0.088 | 10 | 3 | 1 | 1 |
| PL.51753 | PL.51752 | C | #4 ACSR | 7.28Y | 121.4 | 0.00 | 3.60 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.876 | 0.017 | 0 | 0 | 0 | 0 |
| PL.41437 | PL.41435 | A | #2 ACSR | 7.29Y | 121.5 | 0.00 | 3.48 | 1.50 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.571 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6626 | PL.41437 | A | 25QA | 7.29Y | 121.5 | 0.00 | 3.48 | 1.50 | 6 | 11 | 3 | 96 | 0.00 | 0.0 | 2.571 | 0.006 | 0 | 0 | 0 | 1 |
| PL.51751 | PD.6626 | A | #2 ACSR | 7.29Y | 121.5 | 0.00 | 3.48 | 1.50 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.588 | 0.017 | 11 | 3 | 1 | 1 |
| PL.41037 | PL.51931 | C | #2 ACSR | 7.30Y | 121.7 | 0.00 | 3.29 | 1.88 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 2.277 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6587 | PL.41037 | C | 20QA | 7.30Y | 121.7 | 0.00 | 3.29 | 1.88 | 9 | 13 | 4 | 96 | 0.00 | 0.0 | 2.277 | 0.006 | 0 | 0 | 0 | 2 |
| PL.41038 | PD.6587 | C | #2 ACSR | 7.30Y | 121.7 | 0.00 | 3.29 | 1.88 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 2.311 | 0.034 | 11 | 3 | 1 | 2 |
| PL.41431 | PL.41038 | C | #2 ACSR | 7.30Y | 121.7 | 0.00 | 3.29 | 0.35 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 2.351 | 0.040 | 2 | 1 | 1 | 1 |
| PL.56933 | PL.56961 | C | #2 ACSR | 7.32Y | 122.0 | 0.00 | 3.02 | 0.78 | 0 | 6 | 1 | 99 | 0.00 | 0.0 | 1.984 | 0.006 | 0 | 0 | 0 | 2 |
| PD.8334 | PL.56933 | C | 60QA | 7.32Y | 122.0 | 0.00 | 3.02 | 0.78 | 1 | 6 | 1 | 99 | 0.00 | 0.0 | 1.984 | 0.006 | 0 | 0 | 0 | 2 |
| PL.57973 | PD.8334 | C | #2 ACSR | 7.32Y | 122.0 | 0.00 | 3.02 | 0.78 | 0 | 6 | 1 | 99 | 0.00 | 0.0 | 2.011 | 0.027 | 6 | 1 | 2 | 2 |
| PL.57974 | PL.57973 | C | #2 ACSR | 7.32Y | 122.0 | 0.00 | 3.02 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.031 | 0.020 | 0 | 0 | 0 | 0 |
| PL.59395 | PL.41786 | B | #1/0 ACSR | 7.34Y | 122.4 | 0.00 | 2.62 | 3.57 | 2 | 25 | 7 | 96 | 0.00 | 0.0 | 1.789 | 0.039 | 25 | 7 | 2 | 2 |
| PL.41785 | PL.56506 | C | 6 A (CWC) | 7.35Y | 122.6 | 0.00 | 2.43 | 3.26 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 1.654 | 0.006 | 0 | 0 | 0 | 3 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PD.6537 | PL.41785 | C | 60QA | 7.35Y | 122.6 | 0.00 | 2.43 | 3.26 | 5 | 23 | 6 | 97 | 0.00 | 0.0 | 1.654 | 0.006 | 0 | 0 | 0 | 3 |
| PL.56650 | PD.6537 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.02 | 2.45 | 3.26 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 1.809 | 0.155 | 0 | 0 | 0 | 3 |
| PL.56651 | PL.56650 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.46 | 3.26 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 1.862 | 0.052 | 12 | 3 | 1 | 3 |
| PL.59334 | PL.56651 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.46 | 0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.899 | 0.037 | 0 | 0 | 1 | 1 |
| PL.56652 | PL.56651 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.46 | 1.50 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 1.930 | 0.068 | 11 | 3 | 1 | 1 |
| PL.59364 | PL.59363 | A | 6 A (CWC) | 7.41Y | 123.5 | 0.06 | 1.54 | 40.88 | 29 | 293 | 79 | 97 | 0.14 | 0.0 | 1.181 | 0.034 | 9 | 2 | 1 | 44 |
| PL.41892 | PL.59364 | A | 6 A (CWC) | 7.40Y | 123.4 | 0.07 | 1.61 | 39.58 | 28 | 283 | 76 | 97 | 0.15 | 0.1 | 1.223 | 0.042 | 11 | 3 | 2 | 43 |
| PL.56227 | PL.41892 | A | 6 A (CWC) | 7.40Y | 123.3 | 0.12 | 1.73 | 36.02 | 26 | 258 | 69 | 97 | 0.23 | 0.1 | 1.295 | 0.072 | 0 | 0 | 0 | 38 |
| PL.56719 | PL.56227 | A | 6 A (CWC) | 7.39Y | 123.2 | 0.04 | 1.77 | 36.02 | 26 | 257 | 69 | 97 | 0.08 | 0.0 | 1.321 | 0.026 | 0 | 0 | 0 | 38 |
| PL.56733 | PL.56719 | A | 6 A (CWC) | 7.39Y | 123.2 | 0.01 | 1.78 | 4.43 | 3 | 32 | 8 | 97 | 0.00 | 0.0 | 1.383 | 0.062 | 23 | 6 | 2 | 4 |
| PL.56727 | PL.56733 | A | #1/0 ACSR | 7.39Y | 123.2 | 0.00 | 1.78 | 1.27 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 1.402 | 0.019 | 9 | 2 | 2 | 2 |
| PL.56720 | PL.56719 | A | 6 A (CWC) | 7.39Y | 123.2 | 0.01 | 1.78 | 31.60 | 23 | 226 | 61 | 97 | 0.01 | 0.0 | 1.327 | 0.006 | 0 | 0 | 0 | 34 |
| PD.6803 | PL.56720 | A | 50L | 7.39Y | 123.2 | 0.00 | 1.78 | 31.60 | 63 | 226 | 61 | 97 | 0.00 | 0.0 | 1.327 | 0.006 | 0 | 0 | 0 | 34 |
| PL.56721 | PD.6803 | A | 6 A (CWC) | 7.39Y | 123.1 | 0.11 | 1.89 | 31.60 | 23 | 226 | 61 | 97 | 0.18 | 0.1 | 1.406 | 0.080 | 18 | 5 | 3 | 34 |
| PL.56731 | PL.56721 | A | 6 A (CWC) | 7.38Y | 123.0 | 0.07 | 1.96 | 29.02 | 21 | 207 | 56 | 97 | 0.10 | 0.0 | 1.458 | 0.051 | 11 | 3 | 2 | 31 |
| PL.56732 | PL.56731 | A | 6 A (CWC) | 7.38Y | 123.0 | 0.06 | 2.02 | 25.45 | 18 | 181 | 49 | 97 | 0.09 | 0.0 | 1.514 | 0.057 | 8 | 2 | 1 | 28 |
| PL.63465 | PL.56732 | A | 6 A (CWC) | 7.37Y | 122.9 | 0.10 | 2.12 | 24.34 | 17 | 173 | 47 | 97 | 0.12 | 0.1 | 1.604 | 0.090 | 13 | 4 | 2 | 27 |
| PL.63466 | PL.63465 | A | 6 A (CWC) | 7.37Y | 122.9 | 0.03 | 2.15 | 22.45 | 16 | 160 | 43 | 97 | 0.04 | 0.0 | 1.636 | 0.032 | 11 | 3 | 2 | 25 |
| PL.57095 | PL.63466 | A | 6 A (CWC) | 7.37Y | 122.8 | 0.04 | 2.18 | 20.90 | 15 | 149 | 40 | 97 | 0.04 | 0.0 | 1.675 | 0.038 | 9 | 2 | 2 | 23 |
| PL.57129 | PL.57095 | A | 6 A (CWC) | 7.37Y | 122.8 | 0.02 | 2.20 | 19.59 | 14 | 139 | 37 | 97 | 0.02 | 0.0 | 1.695 | 0.020 | 0 | 0 | 0 | 20 |
| PL.57131 | PL.57129 | A | 6 A (CWC) | 7.37Y | 122.8 | 0.04 | 2.25 | 19.59 | 14 | 139 | 37 | 97 | 0.05 | 0.0 | 1.744 | 0.049 | 0 | 0 | 0 | 20 |
| PL.57133 | PL.57131 | A | #1/0 ACSR | 7.37Y | 122.8 | 0.00 | 2.25 | 1.38 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 1.804 | 0.060 | 10 | 3 | 1 | 1 |
| PL.57132 | PL.57131 | A | 6 A (CWC) | 7.36Y | 122.7 | 0.06 | 2.31 | 18.21 | 13 | 130 | 35 | 97 | 0.06 | 0.0 | 1.823 | 0.079 | 9 | 2 | 1 | 19 |
| PL.57130 | PL.57132 | A | 6 A (CWC) | 7.36Y | 122.7 | 0.02 | 2.33 | 15.05 | 11 | 107 | 29 | 97 | 0.02 | 0.0 | 1.859 | 0.035 | 13 | 3 | 1 | 13 |
| PL.42017 | PL.57130 | A | 6 A (CWC) | 7.36Y | 122.6 | 0.02 | 2.35 | 13.27 | 9 | 94 | 25 | 97 | 0.01 | 0.0 | 1.893 | 0.034 | 18 | 5 | 2 | 12 |
| PL.42018 | PL.42017 | A | 6 A (CWC) | 7.36Y | 122.6 | 0.03 | 2.39 | 8.88 | 6 | 63 | 17 | 97 | 0.02 | 0.0 | 1.986 | 0.093 | 10 | 3 | 1 | 9 |
| PL.59272 | PL.42018 | A | 6 A (CWC) | 7.36Y | 122.6 | 0.00 | 2.39 | 1.26 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.032 | 0.047 | 9 | 2 | 1 | 1 |
| PL.42019 | PL.42018 | A | 6 A (CWC) | 7.36Y | 122.6 | 0.01 | 2.40 | 6.26 | 4 | 45 | 12 | 97 | 0.00 | 0.0 | 2.038 | 0.052 | 0 | 0 | 0 | 7 |
| PL.42020 | PL.42019 | A | 6 A (CWC) | 7.36Y | 122.6 | 0.01 | 2.41 | 4.96 | 4 | 35 | 9 | 97 | 0.00 | 0.0 | 2.080 | 0.042 | 0 | 0 | 0 | 6 |
| PL.52007 | PL.42020 | A | 6 A (CWC) | 7.35Y | 122.6 | 0.03 | 2.44 | 2.44 | 2 | 17 | 5 | 96 | 0.00 | 0.0 | 2.326 | 0.246 | 0 | 0 | 0 | 4 |
| PL.56409 | PL.52007 | A | #4 ACSR | 7.35Y | 122.6 | 0.00 | 2.44 | 1.12 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 2.448 | 0.122 | 8 | 2 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.56672 | PL.52007 | A | 6 A (CWC) | 7.35Y | 122.6 | 0.01 | 2.45 | 1.33 | 1 | 9 | 3 | 95 | 0.00 | 0.0 | 2.474 | 0.148 | 0 | 0 | 0 | 3 |
| PL.56673 | PL.56672 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.45 | 1.33 | 1 | 9 | 3 | 95 | 0.00 | 0.0 | 2.558 | 0.083 | 0 | 0 | 0 | 3 |
| PL.56670 | PL.56673 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.45 | 1.30 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.585 | 0.027 | 5 | 1 | 1 | 2 |
| PL.56671 | PL.56670 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.45 | 0.54 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 2.630 | 0.045 | 4 | 1 | 1 | 1 |
| PL.41883 | PL.56671 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.45 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.721 | 0.091 | 0 | 0 | 0 | 0 |
| PL.41631 | PL.56673 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.45 | 0.03 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.611 | 0.054 | 0 | 0 | 1 | 1 |
| PL.52008 | PL.52007 | A | 6 A (CWC) | 7.35Y | 122.6 | 0.00 | 2.44 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.457 | 0.131 | 0 | 0 | 0 | 0 |
| PL.41853 | PL.42020 | A | 6 A (CWC) | 7.36Y | 122.6 | 0.00 | 2.41 | 2.52 | 2 | 18 | 5 | 96 | 0.00 | 0.0 | 2.128 | 0.048 | 18 | 5 | 2 | 2 |
| PL.41554 | PL.42019 | A | #4 ACSR | 7.36Y | 122.6 | 0.00 | 2.40 | 1.30 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.088 | 0.050 | 9 | 2 | 1 | 1 |
| PL.41502 | PL.42017 | A | #4 ACSR | 7.36Y | 122.6 | 0.00 | 2.35 | 1.87 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 1.936 | 0.043 | 13 | 4 | 1 | 1 |
| PL.57179 | PL.57132 | A | #2 ACSR | 7.36Y | 122.7 | 0.00 | 2.31 | 1.90 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 1.876 | 0.053 | 7 | 2 | 2 | 5 |
| PL.57180 | PL.57179 | A | #2 ACSR | 7.36Y | 122.7 | 0.00 | 2.31 | 0.91 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 1.937 | 0.061 | 7 | 2 | 3 | 3 |
| PL.57128 | PL.57132 | A | #2 ACSR | 7.36Y | 122.7 | 0.00 | 2.31 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.867 | 0.043 | 0 | 0 | 0 | 0 |
| PL.57096 | PL.57095 | A | #2 ACSR | 7.37Y | 122.8 | 0.00 | 2.18 | 0.04 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.706 | 0.032 | 0 | 0 | 1 | 1 |
| PL.56656 | PL.56731 | A | #4 ACSR | 7.38Y | 123.0 | 0.01 | 1.96 | 2.02 | 2 | 14 | 4 | 96 | 0.00 | 0.0 | 1.599 | 0.141 | 14 | 4 | 1 | 1 |
| PL.56503 | PL.41892 | A | 6 A (CWC) | 7.40Y | 123.4 | 0.00 | 1.61 | 2.06 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 1.294 | 0.071 | 15 | 4 | 3 | 3 |
| PL.59280 | Keavy 2 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.00 | 0.00 | 117.23 | 23 | 2538 | 720 | 96 | 0.03 | 0.0 | 0.003 | 0.003 | 0 | 0 | 0 | 352 |
| PL.59281 | PL.59280 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.00 | 0.00 | 117.23 | 23 | 2538 | 720 | 96 | 0.02 | 0.0 | 0.005 | 0.002 | 0 | 0 | 0 | 352 |

----- Feeder No. 5 (Locust Grove F5) Beginning with Device PD.8770 -----

| | | | | | | | | | | | | | | | | | | | | |
|-----------|----------|-----|------------|-------|-------|------|------|--------|----|------|-----|-----|------|-----|-------|-------|----|----|---|-----|
| PD.8770 | PL.59281 | ABC | 400VWE | 7.50Y | 125.0 | 0.00 | 0.00 | 117.23 | 0 | 2538 | 720 | 96 | 0.00 | 0.0 | 0.005 | 0.002 | 0 | 0 | 0 | 352 |
| PL.59279 | PD.8770 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.00 | 0.01 | 117.23 | 23 | 2538 | 720 | 96 | 0.04 | 0.0 | 0.009 | 0.004 | 0 | 0 | 0 | 352 |
| PL.59426 | PL.59279 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.00 | 0.01 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.010 | 0.001 | 0 | 0 | 0 | 0 |
| PD.8769-A | PL.59426 | ABC | Open | 7.50Y | 125.0 | 0.00 | 0.01 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.010 | 0.001 | 0 | 0 | 0 | 0 |
| PL.59425 | PL.59279 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.02 | 0.03 | 117.23 | 23 | 2538 | 720 | 96 | 0.23 | 0.0 | 0.029 | 0.020 | 0 | 0 | 0 | 352 |
| PL.59422 | PL.59425 | ABC | 336 MCM AC | 7.49Y | 124.8 | 0.15 | 0.18 | 117.23 | 23 | 2537 | 719 | 96 | 1.99 | 0.1 | 0.201 | 0.172 | 0 | 0 | 0 | 352 |
| PL.59411 | PL.59422 | C | 6 A (CWC) | 7.49Y | 124.8 | 0.00 | 0.18 | 7.09 | 5 | 51 | 14 | 96 | 0.00 | 0.0 | 0.207 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6448 | PL.59411 | C | 75QA | 7.49Y | 124.8 | 0.00 | 0.18 | 7.09 | 9 | 51 | 14 | 96 | 0.00 | 0.0 | 0.207 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42651 | PD.6448 | C | 6 A (CWC) | 7.49Y | 124.8 | 0.00 | 0.18 | 7.09 | 5 | 51 | 14 | 96 | 0.00 | 0.0 | 0.223 | 0.017 | 51 | 14 | 2 | 2 |
| PL.59410 | PL.59422 | ABC | 336 MCM AC | 7.49Y | 124.8 | 0.05 | 0.23 | 114.87 | 22 | 2484 | 701 | 96 | 0.68 | 0.0 | 0.262 | 0.061 | 0 | 0 | 0 | 350 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|------------|--------------|-----|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | | |
| | | | | | | | | | | | | | | | | KW | KVAR | Cons On | Cons Thru | |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.41531 | PL.59410 | ABC | 336 MCM AC | 7.48Y | 124.7 | 0.11 | 0.34 | 113.45 | 22 | 2453 | 691 | 96 | 1.45 | 0.1 | 0.397 | 0.135 | 13 | 4 | 1 | 345 |
| PL.55734 | PL.41531 | ABC | 336 MCM AC | 7.48Y | 124.6 | 0.06 | 0.40 | 112.83 | 22 | 2438 | 684 | 96 | 0.77 | 0.0 | 0.469 | 0.072 | 16 | 4 | 2 | 344 |
| PL.55735 | PL.55734 | ABC | 336 MCM AC | 7.47Y | 124.6 | 0.04 | 0.44 | 112.10 | 22 | 2421 | 678 | 96 | 0.48 | 0.0 | 0.514 | 0.045 | 11 | 3 | 2 | 342 |
| PL.41535 | PL.55735 | ABC | 336 MCM AC | 7.47Y | 124.5 | 0.08 | 0.52 | 109.27 | 21 | 2359 | 660 | 96 | 1.01 | 0.0 | 0.615 | 0.100 | 3 | 1 | 1 | 331 |
| PL.55699 | PL.41535 | ABC | 336 MCM AC | 7.47Y | 124.4 | 0.04 | 0.57 | 109.12 | 21 | 2355 | 657 | 96 | 0.54 | 0.0 | 0.669 | 0.054 | 2 | 1 | 1 | 330 |
| PL.55627 | PL.55699 | ABC | #1/0 ACSR | 7.46Y | 124.3 | 0.14 | 0.71 | 107.80 | 47 | 2326 | 648 | 96 | 2.24 | 0.1 | 0.741 | 0.072 | 0 | 0 | 0 | 326 |
| PL.55630 | PL.55627 | ABC | #1/0 ACSR | 7.45Y | 124.2 | 0.07 | 0.78 | 106.80 | 46 | 2302 | 640 | 96 | 1.09 | 0.0 | 0.777 | 0.036 | 5 | 1 | 1 | 323 |
| PL.55631 | PL.55630 | ABC | #1/0 ACSR | 7.45Y | 124.2 | 0.06 | 0.83 | 106.55 | 46 | 2295 | 638 | 96 | 0.91 | 0.0 | 0.807 | 0.030 | 25 | 7 | 4 | 322 |
| PL.55629 | PL.55631 | ABC | #1/0 ACSR | 7.44Y | 124.0 | 0.17 | 1.01 | 105.38 | 46 | 2269 | 630 | 96 | 2.71 | 0.1 | 0.899 | 0.092 | 15 | 4 | 1 | 318 |
| PL.42834 | PL.55629 | ABC | #1/0 ACSR | 7.44Y | 123.9 | 0.07 | 1.08 | 104.68 | 46 | 2252 | 624 | 96 | 1.09 | 0.0 | 0.937 | 0.037 | 0 | 0 | 0 | 317 |
| PL.42835 | PL.42834 | A | #4 ACSR | 7.44Y | 123.9 | 0.00 | 1.08 | 1.42 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 0.942 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6453 | PL.42835 | A | 60QA | 7.44Y | 123.9 | 0.00 | 1.08 | 1.42 | 2 | 10 | 3 | 96 | 0.00 | 0.0 | 0.942 | 0.006 | 0 | 0 | 0 | 1 |
| PL.62265 | PD.6453 | A | #4 ACSR | 7.44Y | 123.9 | 0.00 | 1.08 | 1.42 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 0.997 | 0.055 | 10 | 3 | 1 | 1 |
| PL.42836 | PL.42834 | ABC | #1/0 ACSR | 7.43Y | 123.8 | 0.14 | 1.22 | 104.21 | 45 | 2240 | 620 | 96 | 2.17 | 0.1 | 1.012 | 0.075 | 0 | 0 | 0 | 316 |
| PL.42837 | PL.42836 | ABC | #1/0 ACSR | 7.42Y | 123.6 | 0.13 | 1.35 | 104.21 | 45 | 2238 | 618 | 96 | 2.02 | 0.1 | 1.081 | 0.070 | 0 | 0 | 0 | 316 |
| PL.62431 | PL.42837 | ABC | #1/0 ACSR | 7.41Y | 123.5 | 0.13 | 1.48 | 102.13 | 44 | 2191 | 604 | 96 | 1.93 | 0.1 | 1.151 | 0.070 | 0 | 0 | 0 | 312 |
| PL.62432 | PL.62431 | ABC | #1/0 ACSR | 7.40Y | 123.3 | 0.22 | 1.69 | 84.94 | 37 | 1821 | 502 | 96 | 2.71 | 0.1 | 1.292 | 0.141 | 0 | 0 | 0 | 232 |
| PL.42893 | PL.62432 | C | #4 ACSR | 7.40Y | 123.3 | 0.00 | 1.70 | 3.28 | 3 | 23 | 6 | 97 | 0.00 | 0.0 | 1.297 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6653 | PL.42893 | C | 60QA | 7.40Y | 123.3 | 0.00 | 1.70 | 3.28 | 5 | 23 | 6 | 97 | 0.00 | 0.0 | 1.297 | 0.006 | 0 | 0 | 0 | 2 |
| PL.51534 | PD.6653 | C | #4 ACSR | 7.40Y | 123.3 | 0.00 | 1.70 | 3.28 | 3 | 23 | 6 | 97 | 0.00 | 0.0 | 1.331 | 0.034 | 23 | 6 | 2 | 2 |
| PL.42894 | PL.62432 | A | #2 ACSR | 7.40Y | 123.3 | 0.00 | 1.69 | 2.14 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 1.297 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6454 | PL.42894 | A | 40QA | 7.40Y | 123.3 | 0.00 | 1.69 | 2.14 | 5 | 15 | 4 | 97 | 0.00 | 0.0 | 1.297 | 0.006 | 0 | 0 | 0 | 1 |
| PL.51533 | PD.6454 | A | #2 ACSR | 7.40Y | 123.3 | 0.00 | 1.70 | 2.14 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 1.385 | 0.088 | 15 | 4 | 1 | 1 |
| PL.42895 | PL.62432 | ABC | #1/0 ACSR | 7.39Y | 123.2 | 0.12 | 1.82 | 83.13 | 36 | 1779 | 489 | 96 | 1.50 | 0.1 | 1.374 | 0.082 | 18 | 5 | 1 | 229 |
| PL.41702 | PL.42895 | B | #2 ACSR | 7.39Y | 123.2 | 0.00 | 1.82 | 1.85 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 1.454 | 0.080 | 13 | 4 | 1 | 1 |
| PL.64789 | PL.42895 | ABC | #1/0 ACSR | 7.39Y | 123.2 | 0.00 | 1.82 | 81.67 | 36 | 1746 | 479 | 96 | 0.00 | 0.0 | 1.374 | 0.000 | 0 | 0 | 0 | 227 |
| PL.64790 | PL.64789 | ABC | #1/0 ACSR | 7.39Y | 123.1 | 0.07 | 1.89 | 81.67 | 36 | 1746 | 479 | 96 | 0.90 | 0.1 | 1.425 | 0.051 | 37 | 10 | 8 | 227 |
| PL.55905 | PL.64790 | ABC | #1/0 ACSR | 7.38Y | 123.0 | 0.08 | 1.97 | 79.61 | 35 | 1701 | 466 | 96 | 0.88 | 0.1 | 1.478 | 0.053 | 12 | 3 | 2 | 218 |
| PL.42899 | PL.55905 | ABC | #1/0 ACSR | 7.37Y | 122.9 | 0.12 | 2.08 | 78.37 | 34 | 1674 | 458 | 96 | 1.37 | 0.1 | 1.561 | 0.084 | 0 | 0 | 0 | 214 |
| PL.42900 | PL.42899 | ABC | #1/0 ACSR | 7.37Y | 122.9 | 0.05 | 2.13 | 77.76 | 34 | 1660 | 453 | 96 | 0.56 | 0.0 | 1.596 | 0.035 | 13 | 4 | 1 | 212 |
| PL.42902 | PL.42900 | A | 6 A (CWC) | 7.37Y | 122.9 | 0.01 | 2.14 | 23.16 | 17 | 165 | 44 | 97 | 0.01 | 0.0 | 1.602 | 0.006 | 0 | 0 | 0 | 20 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PD.6689 | PL.42902 | A | 60QA | 7.37Y | 122.9 | 0.00 | 2.14 | 23.16 | 39 | 165 | 44 | 97 | 0.00 | 0.0 | 1.602 | 0.006 | 0 | 0 | 0 | 20 |
| PL.42992 | PD.6689 | A | 6 A (CWC) | 7.37Y | 122.8 | 0.05 | 2.19 | 23.16 | 17 | 165 | 44 | 97 | 0.06 | 0.0 | 1.652 | 0.050 | 7 | 2 | 1 | 20 |
| PL.42993 | PL.42992 | A | 6 A (CWC) | 7.36Y | 122.7 | 0.12 | 2.31 | 22.14 | 16 | 158 | 42 | 97 | 0.13 | 0.1 | 1.775 | 0.123 | 20 | 5 | 3 | 19 |
| PL.41679 | PL.42993 | A | 6 A (CWC) | 7.36Y | 122.7 | 0.00 | 2.31 | 3.57 | 3 | 25 | 7 | 96 | 0.00 | 0.0 | 1.821 | 0.046 | 25 | 7 | 2 | 2 |
| PL.42994 | PL.42993 | A | 6 A (CWC) | 7.36Y | 122.7 | 0.01 | 2.32 | 15.79 | 11 | 112 | 30 | 97 | 0.01 | 0.0 | 1.795 | 0.020 | 0 | 0 | 0 | 14 |
| PL.42780 | PL.42994 | A | 6 A (CWC) | 7.36Y | 122.6 | 0.04 | 2.36 | 15.79 | 11 | 112 | 30 | 97 | 0.03 | 0.0 | 1.848 | 0.054 | 5 | 1 | 1 | 14 |
| PL.55814 | PL.42780 | A | 6 A (CWC) | 7.35Y | 122.6 | 0.06 | 2.42 | 15.04 | 11 | 107 | 29 | 97 | 0.05 | 0.0 | 1.946 | 0.098 | 18 | 5 | 2 | 13 |
| PL.55815 | PL.55814 | A | #2 ACSR | 7.35Y | 122.6 | 0.02 | 2.45 | 12.17 | 7 | 86 | 23 | 97 | 0.02 | 0.0 | 2.010 | 0.064 | 0 | 0 | 0 | 10 |
| PL.55817 | PL.55815 | A | #2 ACSR | 7.35Y | 122.5 | 0.01 | 2.45 | 12.17 | 7 | 86 | 23 | 97 | 0.00 | 0.0 | 2.026 | 0.016 | 9 | 2 | 1 | 10 |
| PL.55816 | PL.55817 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.03 | 2.48 | 10.92 | 8 | 78 | 21 | 97 | 0.02 | 0.0 | 2.102 | 0.077 | 29 | 8 | 3 | 9 |
| PL.42441 | PL.55816 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.49 | 6.80 | 5 | 48 | 13 | 97 | 0.00 | 0.0 | 2.128 | 0.025 | 11 | 3 | 1 | 6 |
| PL.55824 | PL.42441 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.02 | 2.51 | 3.62 | 3 | 26 | 7 | 97 | 0.00 | 0.0 | 2.248 | 0.120 | 0 | 0 | 0 | 4 |
| PL.55837 | PL.55824 | A | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.51 | 1.25 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.296 | 0.048 | 9 | 2 | 2 | 2 |
| PL.55825 | PL.55824 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.51 | 2.37 | 2 | 17 | 5 | 96 | 0.00 | 0.0 | 2.294 | 0.046 | 0 | 0 | 0 | 2 |
| PL.42442 | PL.55825 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.52 | 2.37 | 2 | 17 | 5 | 96 | 0.00 | 0.0 | 2.372 | 0.079 | 0 | 0 | 0 | 2 |
| PL.42443 | PL.42442 | A | 6 A (CWC) | 7.35Y | 122.4 | 0.03 | 2.55 | 2.37 | 2 | 17 | 5 | 96 | 0.00 | 0.0 | 2.631 | 0.259 | 0 | 0 | 0 | 2 |
| PL.55492 | PL.42443 | A | 6 A (CWC) | 7.35Y | 122.4 | 0.00 | 2.55 | 1.88 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 2.649 | 0.018 | 13 | 4 | 1 | 1 |
| PL.55493 | PL.42443 | A | 6 A (CWC) | 7.35Y | 122.4 | 0.00 | 2.55 | 0.49 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 2.653 | 0.022 | 3 | 1 | 1 | 1 |
| PL.55836 | PL.55825 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.51 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.343 | 0.049 | 0 | 0 | 0 | 0 |
| PL.41741 | PL.42441 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.49 | 1.60 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.209 | 0.082 | 11 | 3 | 1 | 1 |
| PL.55813 | PL.55814 | A | 6 A (CWC) | 7.35Y | 122.6 | 0.00 | 2.42 | 0.30 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 1.994 | 0.048 | 2 | 1 | 1 | 1 |
| PL.41855 | PL.42900 | ABC | #1/0 ACSR | 7.37Y | 122.8 | 0.09 | 2.23 | 69.41 | 30 | 1481 | 405 | 96 | 0.96 | 0.1 | 1.671 | 0.075 | 10 | 3 | 1 | 191 |
| PL.42445 | PL.41855 | ABC | #1/0 ACSR | 7.36Y | 122.6 | 0.13 | 2.36 | 61.53 | 27 | 1312 | 359 | 96 | 1.22 | 0.1 | 1.793 | 0.122 | 10 | 3 | 2 | 164 |
| PL.42446 | PL.42445 | ABC | #1/0 ACSR | 7.35Y | 122.5 | 0.13 | 2.49 | 61.08 | 27 | 1301 | 355 | 96 | 1.18 | 0.1 | 1.912 | 0.119 | 0 | 0 | 0 | 162 |
| PL.55771 | PL.42446 | ABC | #1/0 ACSR | 7.34Y | 122.4 | 0.10 | 2.59 | 60.30 | 26 | 1283 | 350 | 96 | 0.91 | 0.1 | 2.007 | 0.094 | 7 | 2 | 2 | 161 |
| PL.55772 | PL.55771 | ABC | #1/0 ACSR | 7.34Y | 122.3 | 0.07 | 2.67 | 59.98 | 26 | 1275 | 347 | 96 | 0.66 | 0.1 | 2.075 | 0.069 | 0 | 0 | 0 | 159 |
| PL.52899 | PL.55772 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.67 | 1.06 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 2.081 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6467 | PL.52899 | C | 60QA | 7.34Y | 122.3 | 0.00 | 2.67 | 1.06 | 2 | 7 | 2 | 96 | 0.00 | 0.0 | 2.081 | 0.006 | 0 | 0 | 0 | 1 |
| PL.55773 | PD.6467 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.67 | 1.06 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 2.131 | 0.050 | 7 | 2 | 1 | 1 |
| PL.52898 | PL.55772 | B | #2 ACSR | 7.34Y | 122.3 | 0.00 | 2.67 | 1.83 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 2.113 | 0.037 | 13 | 3 | 1 | 1 |
| PL.52900 | PL.55772 | ABC | #1/0 ACSR | 7.34Y | 122.3 | 0.08 | 2.75 | 59.01 | 26 | 1254 | 341 | 96 | 0.71 | 0.1 | 2.152 | 0.077 | 18 | 5 | 2 | 157 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.52891 | PL.52900 | ABC | #1/0 ACSR | 7.33Y | 122.2 | 0.09 | 2.84 | 58.18 | 25 | 1235 | 335 | 97 | 0.79 | 0.1 | 2.240 | 0.088 | 0 | 0 | 0 | 155 |
| PL.52893 | PL.52891 | ABC | #1/0 ACSR | 7.33Y | 122.1 | 0.05 | 2.90 | 34.28 | 15 | 727 | 197 | 97 | 0.27 | 0.0 | 2.327 | 0.087 | 0 | 0 | 0 | 94 |
| PL.42162 | PL.52893 | ABC | #1/0 ACSR | 7.32Y | 122.0 | 0.11 | 3.01 | 34.21 | 15 | 726 | 197 | 97 | 0.56 | 0.1 | 2.506 | 0.179 | 0 | 0 | 0 | 93 |
| PL.42164 | PL.42162 | A | 6 A (CWC) | 7.32Y | 122.0 | 0.00 | 3.01 | 2.44 | 2 | 17 | 5 | 96 | 0.00 | 0.0 | 2.512 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6659 | PL.42164 | A | 25T | 7.32Y | 122.0 | 0.00 | 3.01 | 2.44 | 0 | 17 | 5 | 96 | 0.00 | 0.0 | 2.512 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42165 | PD.6659 | A | 6 A (CWC) | 7.32Y | 122.0 | 0.01 | 3.01 | 2.44 | 2 | 17 | 5 | 96 | 0.00 | 0.0 | 2.594 | 0.083 | 8 | 2 | 1 | 2 |
| PL.42543 | PL.42165 | A | 6 A (CWC) | 7.32Y | 122.0 | 0.00 | 3.02 | 1.36 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 2.637 | 0.042 | 0 | 0 | 0 | 1 |
| PL.42544 | PL.42543 | A | 6 A (CWC) | 7.32Y | 122.0 | 0.00 | 3.02 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.727 | 0.091 | 0 | 0 | 0 | 0 |
| PL.55446 | PL.42543 | A | 6 A (CWC) | 7.32Y | 122.0 | 0.00 | 3.02 | 1.36 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 2.686 | 0.050 | 10 | 3 | 1 | 1 |
| PL.55450 | PL.42162 | ABC | #1/0 ACSR | 7.31Y | 121.9 | 0.10 | 3.10 | 33.39 | 15 | 708 | 191 | 97 | 0.49 | 0.1 | 2.672 | 0.166 | 9 | 3 | 2 | 91 |
| PL.55451 | PL.55450 | ABC | #1/0 ACSR | 7.31Y | 121.9 | 0.02 | 3.13 | 32.95 | 14 | 698 | 189 | 97 | 0.10 | 0.0 | 2.709 | 0.037 | 30 | 8 | 3 | 89 |
| PL.55452 | PL.55451 | ABC | #1/0 ACSR | 7.31Y | 121.8 | 0.03 | 3.16 | 31.52 | 14 | 668 | 180 | 97 | 0.16 | 0.0 | 2.769 | 0.060 | 1 | 0 | 1 | 86 |
| PL.52896 | PL.55452 | ABC | #1/0 ACSR | 7.31Y | 121.8 | 0.02 | 3.18 | 30.92 | 13 | 655 | 177 | 97 | 0.10 | 0.0 | 2.808 | 0.039 | 0 | 0 | 0 | 81 |
| PL.52897 | PL.52896 | A | 6 A (CWC) | 7.31Y | 121.8 | 0.00 | 3.18 | 12.65 | 9 | 89 | 24 | 97 | 0.00 | 0.0 | 2.814 | 0.006 | 0 | 0 | 0 | 12 |
| PD.6642 | PL.52897 | A | 60QA | 7.31Y | 121.8 | 0.00 | 3.18 | 12.65 | 21 | 89 | 24 | 97 | 0.00 | 0.0 | 2.814 | 0.006 | 0 | 0 | 0 | 12 |
| PL.55453 | PD.6642 | A | 6 A (CWC) | 7.31Y | 121.8 | 0.03 | 3.21 | 12.65 | 9 | 89 | 24 | 97 | 0.02 | 0.0 | 2.864 | 0.050 | 23 | 6 | 2 | 12 |
| PL.55454 | PL.55453 | A | 6 A (CWC) | 7.31Y | 121.8 | 0.03 | 3.24 | 9.42 | 7 | 66 | 18 | 96 | 0.02 | 0.0 | 2.944 | 0.080 | 0 | 0 | 0 | 10 |
| PL.55706 | PL.55454 | A | 6 A (CWC) | 7.30Y | 121.7 | 0.02 | 3.26 | 9.42 | 7 | 66 | 18 | 96 | 0.01 | 0.0 | 2.996 | 0.052 | 21 | 6 | 3 | 10 |
| PL.55707 | PL.55706 | A | 6 A (CWC) | 7.30Y | 121.7 | 0.01 | 3.27 | 6.42 | 5 | 45 | 12 | 97 | 0.00 | 0.0 | 3.056 | 0.060 | 35 | 9 | 4 | 7 |
| PL.55708 | PL.55707 | A | 6 A (CWC) | 7.30Y | 121.7 | 0.00 | 3.28 | 1.50 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 3.114 | 0.058 | 11 | 3 | 3 | 3 |
| PL.55955 | PL.52896 | ABC | #1/0 ACSR | 7.31Y | 121.8 | 0.06 | 3.24 | 26.70 | 12 | 565 | 153 | 97 | 0.25 | 0.0 | 2.940 | 0.132 | 14 | 4 | 1 | 69 |
| PL.55954 | PL.55955 | C | #1/0 ACSR | 7.31Y | 121.8 | 0.00 | 3.24 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.026 | 0.086 | 0 | 0 | 0 | 0 |
| PL.55956 | PL.55955 | ABC | #1/0 ACSR | 7.30Y | 121.7 | 0.06 | 3.30 | 26.04 | 11 | 551 | 149 | 97 | 0.21 | 0.0 | 3.059 | 0.119 | 13 | 4 | 1 | 68 |
| PL.55953 | PL.55956 | ABC | #2 ACSR | 7.30Y | 121.7 | 0.00 | 3.30 | 0.63 | 0 | 13 | 4 | 96 | 0.00 | 0.0 | 3.150 | 0.091 | 7 | 2 | 2 | 3 |
| PL.55704 | PL.55953 | ABC | #2 ACSR | 7.30Y | 121.7 | 0.00 | 3.30 | 0.30 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 3.238 | 0.088 | 6 | 2 | 1 | 1 |
| PL.55705 | PL.55704 | ABC | #2 ACSR | 7.30Y | 121.7 | 0.00 | 3.30 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.291 | 0.053 | 0 | 0 | 0 | 0 |
| PD.6816-A | PL.55705 | ABC | Open | 7.30Y | 121.7 | 0.00 | 3.30 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.291 | 0.053 | 0 | 0 | 0 | 0 |
| PL.58448 | PL.55956 | B | 6 A (CWC) | 7.29Y | 121.5 | 0.24 | 3.54 | 74.34 | 53 | 524 | 141 | 97 | 0.93 | 0.2 | 3.129 | 0.070 | 12 | 3 | 1 | 64 |
| PL.58450 | PL.58448 | B | 6 A (CWC) | 7.29Y | 121.5 | 0.00 | 3.54 | 24.62 | 18 | 173 | 46 | 97 | 0.00 | 0.0 | 3.131 | 0.002 | 0 | 0 | 0 | 18 |
| PD.8594 | PL.58450 | B | 20T | 7.29Y | 121.5 | 0.00 | 3.54 | 24.62 | 0 | 173 | 46 | 97 | 0.00 | 0.0 | 3.131 | 0.002 | 0 | 0 | 0 | 18 |
| PL.58451 | PD.8594 | B | 6 A (CWC) | 7.28Y | 121.4 | 0.07 | 3.61 | 24.62 | 18 | 173 | 46 | 97 | 0.08 | 0.0 | 3.198 | 0.067 | 32 | 8 | 2 | 18 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.55952 | PL.58451 | B | 6 A (CWC) | 7.28Y | 121.4 | 0.01 | 3.62 | 19.49 | 14 | 137 | 37 | 97 | 0.02 | 0.0 | 3.215 | 0.017 | 7 | 2 | 2 | 15 |
| PL.55455 | PL.55952 | B | 6 A (CWC) | 7.28Y | 121.4 | 0.02 | 3.64 | 18.55 | 13 | 131 | 35 | 97 | 0.02 | 0.0 | 3.234 | 0.018 | 0 | 0 | 0 | 13 |
| PL.55456 | PL.55455 | B | 6 A (CWC) | 7.28Y | 121.4 | 0.01 | 3.65 | 15.66 | 11 | 110 | 29 | 97 | 0.01 | 0.0 | 3.252 | 0.018 | 10 | 3 | 1 | 11 |
| PL.55959 | PL.55456 | B | 6 A (CWC) | 7.28Y | 121.3 | 0.04 | 3.68 | 14.29 | 10 | 101 | 27 | 97 | 0.03 | 0.0 | 3.316 | 0.064 | 27 | 7 | 3 | 10 |
| PL.55843 | PL.55959 | B | 6 A (CWC) | 7.28Y | 121.3 | 0.01 | 3.70 | 5.32 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 3.375 | 0.059 | 18 | 5 | 2 | 4 |
| PL.42167 | PL.55843 | B | 6 A (CWC) | 7.28Y | 121.3 | 0.01 | 3.70 | 2.83 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 3.455 | 0.081 | 20 | 5 | 2 | 2 |
| PL.55842 | PL.55959 | B | #4 ACSR | 7.28Y | 121.3 | 0.01 | 3.70 | 5.19 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 3.387 | 0.071 | 25 | 7 | 2 | 3 |
| PL.42166 | PL.55842 | B | #4 ACSR | 7.28Y | 121.3 | 0.00 | 3.70 | 1.65 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 3.424 | 0.037 | 12 | 3 | 1 | 1 |
| PL.61146 | PL.55455 | B | #1/0 ACSR | 7.28Y | 121.4 | 0.00 | 3.64 | 2.90 | 1 | 20 | 5 | 97 | 0.00 | 0.0 | 3.268 | 0.034 | 20 | 5 | 2 | 2 |
| PL.55951 | PL.58451 | B | 6 A (CWC) | 7.28Y | 121.4 | 0.00 | 3.61 | 0.63 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 3.254 | 0.055 | 4 | 1 | 1 | 1 |
| PL.58449 | PL.58448 | B | 6 A (CWC) | 7.28Y | 121.4 | 0.08 | 3.61 | 48.01 | 34 | 338 | 91 | 97 | 0.20 | 0.1 | 3.165 | 0.035 | 0 | 0 | 0 | 45 |
| PL.41815 | PL.58449 | B | 6 A (CWC) | 7.28Y | 121.4 | 0.00 | 3.61 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.200 | 0.036 | 0 | 0 | 0 | 0 |
| PL.55958 | PL.58449 | B | 6 A (CWC) | 7.28Y | 121.3 | 0.11 | 3.72 | 47.27 | 34 | 332 | 90 | 97 | 0.26 | 0.1 | 3.214 | 0.050 | 7 | 2 | 1 | 44 |
| PL.55957 | PL.55958 | B | 6 A (CWC) | 7.28Y | 121.3 | 0.01 | 3.73 | 46.23 | 33 | 325 | 88 | 97 | 0.03 | 0.0 | 3.220 | 0.006 | 0 | 0 | 0 | 43 |
| C PD.6794 | PL.55957 | B | 50L | 7.28Y | 121.3 | 0.00 | 3.73 | 46.23 | 92 | 325 | 88 | 97 | 0.00 | 0.0 | 3.220 | 0.006 | 0 | 0 | 0 | 43 C |
| PL.41564 | PD.6794 | B | 6 A (CWC) | 7.27Y | 121.1 | 0.18 | 3.91 | 46.23 | 33 | 325 | 88 | 97 | 0.45 | 0.1 | 3.307 | 0.087 | 3 | 1 | 1 | 43 |
| PL.62044 | PL.41564 | B | 6 A (CWC) | 7.26Y | 121.0 | 0.05 | 3.97 | 45.83 | 33 | 321 | 87 | 97 | 0.13 | 0.0 | 3.333 | 0.026 | 17 | 5 | 2 | 42 |
| PL.62042 | PL.62044 | B | 6 A (CWC) | 7.26Y | 121.0 | 0.00 | 3.97 | 1.09 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 3.410 | 0.077 | 8 | 2 | 1 | 1 |
| PL.62043 | PL.62044 | B | 6 A (CWC) | 7.25Y | 120.9 | 0.13 | 4.10 | 42.25 | 30 | 296 | 80 | 97 | 0.29 | 0.1 | 3.400 | 0.067 | 0 | 0 | 0 | 39 |
| PL.55713 | PL.62043 | B | 6 A (CWC) | 7.25Y | 120.9 | 0.00 | 4.10 | 0.84 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 3.442 | 0.042 | 6 | 2 | 1 | 1 |
| PL.55714 | PL.62043 | B | 6 A (CWC) | 7.25Y | 120.9 | 0.00 | 4.10 | 1.67 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 3.419 | 0.018 | 12 | 3 | 1 | 1 |
| PL.55715 | PL.55714 | B | 6 A (CWC) | 7.25Y | 120.9 | 0.00 | 4.10 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.448 | 0.030 | 0 | 0 | 0 | 0 |
| PL.55716 | PL.55715 | B | 6 A (CWC) | 7.25Y | 120.9 | 0.00 | 4.10 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.463 | 0.014 | 0 | 0 | 0 | 0 |
| PL.55719 | PL.62043 | B | 6 A (CWC) | 7.25Y | 120.8 | 0.09 | 4.18 | 39.75 | 28 | 278 | 75 | 97 | 0.18 | 0.1 | 3.451 | 0.051 | 23 | 6 | 2 | 37 |
| PL.55718 | PL.55719 | B | 6 A (CWC) | 7.24Y | 120.7 | 0.17 | 4.35 | 34.35 | 25 | 240 | 65 | 97 | 0.30 | 0.1 | 3.558 | 0.107 | 9 | 2 | 1 | 33 |
| PL.41833 | PL.55718 | B | 6 A (CWC) | 7.24Y | 120.6 | 0.00 | 4.35 | 2.13 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 3.587 | 0.029 | 15 | 4 | 2 | 2 |
| PL.42089 | PL.55718 | B | 6 A (CWC) | 7.23Y | 120.5 | 0.13 | 4.48 | 30.98 | 22 | 217 | 58 | 97 | 0.21 | 0.1 | 3.650 | 0.091 | 0 | 0 | 0 | 30 |
| PL.52946 | PL.42089 | B | 6 A (CWC) | 7.23Y | 120.5 | 0.05 | 4.53 | 30.98 | 22 | 216 | 58 | 97 | 0.08 | 0.0 | 3.687 | 0.037 | 18 | 5 | 3 | 30 |
| PL.52949 | PL.52946 | B | 6 A (CWC) | 7.22Y | 120.4 | 0.06 | 4.59 | 26.80 | 19 | 187 | 50 | 97 | 0.08 | 0.0 | 3.735 | 0.048 | 6 | 2 | 1 | 25 |
| PL.52948 | PL.52949 | B | 6 A (CWC) | 7.22Y | 120.3 | 0.11 | 4.70 | 23.56 | 17 | 164 | 44 | 97 | 0.14 | 0.1 | 3.839 | 0.104 | 0 | 0 | 0 | 23 |
| PL.55459 | PL.52948 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.08 | 4.78 | 20.79 | 15 | 145 | 39 | 97 | 0.09 | 0.1 | 3.928 | 0.089 | 12 | 3 | 3 | 22 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.55458 | PL.55459 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.02 | 4.80 | 6.20 | 4 | 43 | 12 | 96 | 0.01 | 0.0 | 4.012 | 0.084 | 0 | 0 | 0 | 4 |
| PL.42097 | PL.55458 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.03 | 4.84 | 4.44 | 3 | 31 | 8 | 97 | 0.01 | 0.0 | 4.193 | 0.181 | 6 | 2 | 1 | 3 |
| PL.41591 | PL.42097 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.00 | 4.84 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.308 | 0.115 | 0 | 0 | 0 | 0 |
| PL.42098 | PL.42097 | B | 6 A (CWC) | 7.21Y | 120.1 | 0.02 | 4.85 | 3.60 | 3 | 25 | 7 | 96 | 0.00 | 0.0 | 4.294 | 0.101 | 0 | 0 | 0 | 2 |
| PL.41816 | PL.42098 | B | 6 A (CWC) | 7.21Y | 120.1 | 0.01 | 4.86 | 2.95 | 2 | 21 | 5 | 97 | 0.00 | 0.0 | 4.388 | 0.093 | 21 | 5 | 1 | 1 |
| PL.41463 | PL.42098 | B | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.86 | 0.65 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 4.417 | 0.123 | 5 | 1 | 1 | 1 |
| PL.41563 | PL.55458 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.00 | 4.81 | 1.76 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 4.060 | 0.047 | 0 | 0 | 0 | 1 |
| PL.55460 | PL.41563 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.00 | 4.81 | 1.76 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 4.086 | 0.026 | 12 | 3 | 1 | 1 |
| PL.55457 | PL.55459 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.02 | 4.80 | 12.92 | 9 | 90 | 24 | 97 | 0.02 | 0.0 | 3.970 | 0.041 | 0 | 0 | 0 | 15 |
| PL.62220 | PL.55457 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.03 | 4.84 | 12.92 | 9 | 90 | 24 | 97 | 0.02 | 0.0 | 4.027 | 0.057 | 14 | 4 | 4 | 15 |
| PL.62222 | PL.62220 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.01 | 4.85 | 6.61 | 5 | 46 | 12 | 97 | 0.00 | 0.0 | 4.079 | 0.052 | 14 | 4 | 2 | 7 |
| PL.62223 | PL.62222 | B | 6 A (CWC) | 7.21Y | 120.1 | 0.01 | 4.86 | 4.56 | 3 | 32 | 9 | 96 | 0.00 | 0.0 | 4.127 | 0.048 | 0 | 0 | 1 | 5 |
| PL.62218 | PL.62223 | B | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.86 | 1.09 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 4.198 | 0.071 | 8 | 2 | 1 | 1 |
| PL.62219 | PL.62223 | B | 6 A (CWC) | 7.21Y | 120.1 | 0.01 | 4.86 | 3.46 | 2 | 24 | 6 | 97 | 0.00 | 0.0 | 4.161 | 0.034 | 0 | 0 | 0 | 3 |
| PL.42728 | PL.62219 | B | 6 A (CWC) | 7.21Y | 120.1 | 0.01 | 4.88 | 3.46 | 2 | 24 | 6 | 97 | 0.00 | 0.0 | 4.257 | 0.097 | 6 | 2 | 1 | 3 |
| PL.42727 | PL.42728 | B | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.88 | 2.57 | 2 | 18 | 5 | 96 | 0.00 | 0.0 | 4.294 | 0.037 | 0 | 0 | 0 | 2 |
| PL.41885 | PL.42727 | B | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.89 | 2.57 | 2 | 18 | 5 | 96 | 0.00 | 0.0 | 4.351 | 0.057 | 18 | 5 | 2 | 2 |
| PL.41565 | PL.42727 | B | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.88 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.403 | 0.109 | 0 | 0 | 0 | 0 |
| PL.41039 | PL.62219 | B | #1/0 ACSR | 7.21Y | 120.1 | 0.00 | 4.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.178 | 0.018 | 0 | 0 | 0 | 0 |
| PL.62221 | PL.62220 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.01 | 4.84 | 4.24 | 3 | 29 | 8 | 96 | 0.00 | 0.0 | 4.063 | 0.035 | 14 | 4 | 2 | 4 |
| PL.55894 | PL.62221 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.00 | 4.84 | 2.19 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 4.081 | 0.019 | 15 | 4 | 2 | 2 |
| PL.55766 | PL.55457 | B | 6 A (CWC) | 7.21Y | 120.2 | 0.00 | 4.80 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.023 | 0.053 | 0 | 0 | 0 | 0 |
| PL.52904 | PL.52948 | B | #2 ACSR | 7.22Y | 120.3 | 0.00 | 4.70 | 2.77 | 2 | 19 | 5 | 97 | 0.00 | 0.0 | 3.875 | 0.035 | 19 | 5 | 1 | 1 |
| PL.52947 | PL.52949 | B | 6 A (CWC) | 7.22Y | 120.4 | 0.00 | 4.59 | 2.40 | 2 | 17 | 4 | 97 | 0.00 | 0.0 | 3.819 | 0.084 | 17 | 4 | 1 | 1 |
| PL.52945 | PL.52946 | B | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.53 | 1.62 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 3.751 | 0.064 | 11 | 3 | 2 | 2 |
| PL.55717 | PL.55719 | B | 6 A (CWC) | 7.25Y | 120.8 | 0.01 | 4.19 | 2.13 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 3.556 | 0.106 | 15 | 4 | 2 | 2 |
| PL.41562 | PL.58449 | B | 6 A (CWC) | 7.28Y | 121.4 | 0.00 | 3.61 | 0.74 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 3.211 | 0.047 | 5 | 1 | 1 | 1 |
| PL.42545 | PL.55452 | C | #4 ACSR | 7.31Y | 121.8 | 0.00 | 3.16 | 1.67 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 2.818 | 0.049 | 11 | 3 | 2 | 4 |
| PL.42546 | PL.42545 | C | #4 ACSR | 7.31Y | 121.8 | 0.00 | 3.16 | 0.08 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 2.887 | 0.069 | 0 | 0 | 1 | 2 |
| PL.42547 | PL.42546 | C | #4 ACSR | 7.31Y | 121.8 | 0.00 | 3.16 | 0.08 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 3.018 | 0.131 | 1 | 0 | 1 | 1 |
| PL.42163 | PL.52893 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.90 | 0.22 | 0 | 2 | 0 | 100 | 0.00 | 0.0 | 2.333 | 0.006 | 0 | 0 | 0 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PD.6531 | PL.42163 | C | 60QA | 7.33Y | 122.1 | 0.00 | 2.90 | 0.22 | 0 | 2 | 0 | 100 | 0.00 | 0.0 | 2.333 | 0.006 | 0 | 0 | 0 | 1 |
| PL.55444 | PD.6531 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.90 | 0.22 | 0 | 2 | 0 | 100 | 0.00 | 0.0 | 2.378 | 0.045 | 2 | 0 | 1 | 1 |
| PL.52894 | PL.52891 | A | 6 A (CWC) | 7.32Y | 122.0 | 0.15 | 2.99 | 71.70 | 51 | 507 | 137 | 97 | 0.57 | 0.1 | 2.287 | 0.046 | 11 | 3 | 1 | 61 |
| PL.52895 | PL.52894 | A | 6 A (CWC) | 7.31Y | 121.8 | 0.18 | 3.17 | 70.07 | 50 | 495 | 134 | 97 | 0.66 | 0.1 | 2.343 | 0.056 | 9 | 2 | 2 | 60 |
| PL.61132 | PL.52895 | A | #1/0 ACSR | 7.31Y | 121.8 | 0.00 | 3.17 | 1.05 | 0 | 7 | 2 | 96 | 0.00 | 0.0 | 2.366 | 0.023 | 7 | 2 | 1 | 1 |
| PL.52892 | PL.52895 | A | 6 A (CWC) | 7.30Y | 121.7 | 0.11 | 3.28 | 67.75 | 48 | 478 | 129 | 97 | 0.40 | 0.1 | 2.379 | 0.036 | 0 | 0 | 0 | 57 |
| PL.42447 | PL.52892 | A | 6 A (CWC) | 7.30Y | 121.7 | 0.02 | 3.30 | 67.75 | 48 | 478 | 129 | 97 | 0.06 | 0.0 | 2.385 | 0.006 | 0 | 0 | 0 | 57 |
| C PD.6793 | PL.42447 | A | 50L | 7.30Y | 121.7 | 0.00 | 3.30 | 67.75 | 136 | 478 | 129 | 97 | 0.00 | 0.0 | 2.385 | 0.006 | 0 | 0 | 0 | 57 C |
| PL.55447 | PD.6793 | A | 6 A (CWC) | 7.29Y | 121.6 | 0.14 | 3.44 | 67.75 | 48 | 478 | 129 | 97 | 0.49 | 0.1 | 2.430 | 0.045 | 10 | 3 | 1 | 57 |
| PL.55449 | PL.55447 | A | 6 A (CWC) | 7.28Y | 121.4 | 0.17 | 3.61 | 59.37 | 42 | 418 | 113 | 97 | 0.54 | 0.1 | 2.493 | 0.064 | 5 | 1 | 1 | 51 |
| PL.41381 | PL.55449 | A | 6 A (CWC) | 7.28Y | 121.4 | 0.00 | 3.61 | 0.97 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 2.688 | 0.195 | 7 | 2 | 1 | 1 |
| PL.42448 | PL.55449 | A | 6 A (CWC) | 7.26Y | 121.1 | 0.31 | 3.92 | 55.76 | 40 | 392 | 106 | 97 | 0.90 | 0.2 | 2.618 | 0.125 | 22 | 6 | 2 | 47 |
| PL.41852 | PL.42448 | A | 6 A (CWC) | 7.26Y | 121.1 | 0.00 | 3.92 | 2.28 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 2.653 | 0.034 | 16 | 4 | 1 | 1 |
| PL.42449 | PL.42448 | A | 6 A (CWC) | 7.25Y | 120.8 | 0.26 | 4.18 | 50.30 | 36 | 353 | 95 | 97 | 0.69 | 0.2 | 2.732 | 0.114 | 9 | 2 | 1 | 44 |
| PL.55462 | PL.42449 | A | 6 A (CWC) | 7.25Y | 120.8 | 0.07 | 4.24 | 47.37 | 34 | 332 | 89 | 97 | 0.17 | 0.1 | 2.764 | 0.032 | 10 | 3 | 1 | 42 |
| PL.55463 | PL.55462 | A | 6 A (CWC) | 7.24Y | 120.7 | 0.06 | 4.30 | 45.89 | 33 | 321 | 86 | 97 | 0.14 | 0.0 | 2.793 | 0.028 | 3 | 1 | 1 | 41 |
| PL.57709 | PL.55463 | A | 6 A (CWC) | 7.24Y | 120.6 | 0.10 | 4.40 | 45.52 | 33 | 318 | 85 | 97 | 0.24 | 0.1 | 2.843 | 0.050 | 25 | 7 | 2 | 40 |
| PL.57712 | PL.57709 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.05 | 4.45 | 18.34 | 13 | 128 | 34 | 97 | 0.05 | 0.0 | 2.904 | 0.061 | 15 | 4 | 1 | 11 |
| PL.57708 | PL.57712 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.05 | 4.50 | 16.14 | 12 | 113 | 30 | 97 | 0.04 | 0.0 | 2.981 | 0.076 | 26 | 7 | 3 | 10 |
| PL.57707 | PL.57708 | A | 6 A (CWC) | 7.23Y | 120.4 | 0.06 | 4.56 | 12.37 | 9 | 86 | 23 | 97 | 0.04 | 0.0 | 3.081 | 0.100 | 0 | 0 | 0 | 7 |
| PL.42451 | PL.57707 | A | 6 A (CWC) | 7.23Y | 120.4 | 0.01 | 4.57 | 7.28 | 5 | 51 | 14 | 96 | 0.00 | 0.0 | 3.118 | 0.037 | 27 | 7 | 2 | 4 |
| PL.55461 | PL.42451 | A | 6 A (CWC) | 7.23Y | 120.4 | 0.00 | 4.57 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.165 | 0.047 | 0 | 0 | 0 | 0 |
| PL.59315 | PL.42451 | A | 6 A (CWC) | 7.23Y | 120.4 | 0.00 | 4.57 | 3.35 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 3.154 | 0.036 | 5 | 1 | 1 | 2 |
| PL.59316 | PL.59315 | A | 6 A (CWC) | 7.23Y | 120.4 | 0.00 | 4.58 | 2.69 | 2 | 19 | 5 | 97 | 0.00 | 0.0 | 3.215 | 0.062 | 19 | 5 | 1 | 1 |
| PL.59332 | PL.57707 | A | 6 A (CWC) | 7.23Y | 120.4 | 0.02 | 4.58 | 5.09 | 4 | 36 | 9 | 97 | 0.00 | 0.0 | 3.158 | 0.077 | 6 | 2 | 1 | 3 |
| PL.59333 | PL.59332 | A | 6 A (CWC) | 7.22Y | 120.4 | 0.02 | 4.59 | 4.26 | 3 | 30 | 8 | 97 | 0.00 | 0.0 | 3.237 | 0.079 | 0 | 0 | 0 | 2 |
| PL.55637 | PL.59333 | A | 1/0 AL URD | 7.22Y | 120.4 | 0.00 | 4.59 | 1.89 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 3.278 | 0.041 | 13 | 4 | 1 | 1 |
| PL.55636 | PL.59333 | A | 6 A (CWC) | 7.22Y | 120.4 | 0.01 | 4.60 | 2.37 | 2 | 17 | 4 | 97 | 0.00 | 0.0 | 3.309 | 0.072 | 0 | 0 | 0 | 1 |
| PL.55635 | PL.55636 | A | 6 A (CWC) | 7.22Y | 120.4 | 0.00 | 4.60 | 2.37 | 2 | 17 | 4 | 97 | 0.00 | 0.0 | 3.388 | 0.079 | 17 | 4 | 1 | 1 |
| PL.57706 | PL.57708 | A | #4 ACSR | 7.23Y | 120.5 | 0.00 | 4.50 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.032 | 0.052 | 0 | 0 | 0 | 0 |
| PL.57711 | PL.57709 | A | 6 A (CWC) | 7.23Y | 120.6 | 0.05 | 4.45 | 21.28 | 15 | 149 | 40 | 97 | 0.05 | 0.0 | 2.890 | 0.047 | 0 | 0 | 0 | 24 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.55762 | PL.57711 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.02 | 4.47 | 19.88 | 14 | 139 | 37 | 97 | 0.02 | 0.0 | 2.913 | 0.024 | 10 | 3 | 1 | 23 |
| PL.55761 | PL.55762 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.06 | 4.53 | 17.11 | 12 | 120 | 32 | 97 | 0.05 | 0.0 | 2.985 | 0.072 | 0 | 0 | 0 | 21 |
| PL.55764 | PL.55761 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.02 | 4.54 | 15.35 | 11 | 107 | 29 | 97 | 0.01 | 0.0 | 3.007 | 0.022 | 0 | 0 | 0 | 20 |
| PL.55692 | PL.55764 | A | 6 A (CWC) | 7.22Y | 120.4 | 0.05 | 4.59 | 14.61 | 10 | 102 | 27 | 97 | 0.03 | 0.0 | 3.086 | 0.079 | 20 | 5 | 4 | 17 |
| PL.64548 | PL.55692 | A | 6 A (CWC) | 7.22Y | 120.4 | 0.03 | 4.62 | 11.73 | 8 | 82 | 22 | 97 | 0.02 | 0.0 | 3.141 | 0.055 | 5 | 1 | 1 | 13 |
| PL.64549 | PL.64548 | A | 6 A (CWC) | 7.22Y | 120.4 | 0.02 | 4.63 | 11.00 | 8 | 77 | 21 | 96 | 0.01 | 0.0 | 3.184 | 0.042 | 37 | 10 | 6 | 12 |
| PL.55927 | PL.64549 | A | 6 A (CWC) | 7.22Y | 120.4 | 0.02 | 4.65 | 5.32 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 3.247 | 0.063 | 0 | 0 | 0 | 4 |
| PL.55804 | PL.55927 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.65 | 5.32 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 3.262 | 0.016 | 11 | 3 | 1 | 4 |
| PL.55805 | PL.55804 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.66 | 2.34 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 3.287 | 0.025 | 1 | 0 | 1 | 2 |
| PL.55464 | PL.55805 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.66 | 2.23 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 3.324 | 0.037 | 16 | 4 | 1 | 1 |
| PL.55465 | PL.55464 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.66 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.366 | 0.042 | 0 | 0 | 0 | 0 |
| PL.55803 | PL.55804 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.65 | 1.40 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 3.313 | 0.050 | 10 | 3 | 1 | 1 |
| PL.61141 | PL.55804 | A | #1/0 ACSR | 7.22Y | 120.3 | 0.00 | 4.65 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.307 | 0.045 | 0 | 0 | 0 | 0 |
| PL.55926 | PL.64549 | A | 6 A (CWC) | 7.22Y | 120.4 | 0.00 | 4.63 | 0.40 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 3.213 | 0.029 | 3 | 1 | 2 | 2 |
| PL.55765 | PL.55764 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.55 | 0.74 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 3.144 | 0.137 | 0 | 0 | 0 | 3 |
| PL.42705 | PL.55765 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.55 | 0.74 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 3.196 | 0.051 | 0 | 0 | 0 | 3 |
| PL.42706 | PL.42705 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.55 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.348 | 0.152 | 0 | 0 | 0 | 0 |
| PL.41417 | PL.42706 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.55 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.494 | 0.146 | 0 | 0 | 0 | 0 |
| PL.55494 | PL.42706 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.55 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.454 | 0.106 | 0 | 0 | 0 | 0 |
| PL.59133 | PL.42705 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.55 | 0.74 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 3.243 | 0.047 | 0 | 0 | 1 | 3 |
| PL.59134 | PL.59133 | A | 6 A (CWC) | 7.23Y | 120.4 | 0.00 | 4.55 | 0.68 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 3.298 | 0.055 | 5 | 1 | 2 | 2 |
| PL.42703 | PL.55761 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.53 | 1.76 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 3.045 | 0.060 | 0 | 0 | 0 | 1 |
| PL.42704 | PL.42703 | A | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.53 | 1.76 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 3.080 | 0.035 | 12 | 3 | 1 | 1 |
| PL.55763 | PL.55762 | A | #1/0 ACSR | 7.23Y | 120.5 | 0.00 | 4.47 | 1.29 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.928 | 0.015 | 9 | 2 | 1 | 1 |
| PL.55760 | PL.57711 | A | #1/0 ACSR | 7.23Y | 120.6 | 0.00 | 4.45 | 1.39 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 2.908 | 0.018 | 10 | 3 | 1 | 1 |
| PL.57710 | PL.57709 | A | 6 A (CWC) | 7.24Y | 120.6 | 0.01 | 4.41 | 2.32 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 2.908 | 0.065 | 8 | 2 | 1 | 3 |
| PL.42450 | PL.57710 | A | 6 A (CWC) | 7.24Y | 120.6 | 0.00 | 4.41 | 1.13 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 2.974 | 0.066 | 8 | 2 | 2 | 2 |
| PL.41401 | PL.42449 | A | 6 A (CWC) | 7.25Y | 120.8 | 0.00 | 4.18 | 1.65 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 2.802 | 0.069 | 12 | 3 | 1 | 1 |
| PL.55445 | PL.55449 | A | 6 A (CWC) | 7.28Y | 121.4 | 0.00 | 3.61 | 1.89 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 2.560 | 0.067 | 13 | 4 | 2 | 2 |
| PL.55448 | PL.55447 | A | 6 A (CWC) | 7.29Y | 121.5 | 0.04 | 3.47 | 6.96 | 5 | 49 | 13 | 97 | 0.01 | 0.0 | 2.561 | 0.131 | 11 | 3 | 1 | 5 |
| PL.52901 | PL.55448 | A | 6 A (CWC) | 7.29Y | 121.5 | 0.01 | 3.49 | 5.44 | 4 | 38 | 10 | 97 | 0.00 | 0.0 | 2.622 | 0.062 | 8 | 2 | 1 | 4 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.52902 | PL.52901 | A | 6 A (CWC) | 7.29Y | 121.5 | 0.00 | 3.49 | 4.34 | 3 | 31 | 8 | 97 | 0.00 | 0.0 | 2.649 | 0.027 | 11 | 3 | 1 | 3 |
| PL.52903 | PL.52902 | A | 6 A (CWC) | 7.29Y | 121.5 | 0.00 | 3.50 | 1.50 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.770 | 0.120 | 11 | 3 | 1 | 1 |
| PL.59135 | PL.52902 | A | #1/0 ACSR | 7.29Y | 121.5 | 0.00 | 3.49 | 1.26 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.697 | 0.048 | 9 | 2 | 1 | 1 |
| PL.42444 | PL.42446 | C | #4 ACSR | 7.35Y | 122.5 | 0.00 | 2.49 | 2.36 | 2 | 17 | 4 | 97 | 0.00 | 0.0 | 1.918 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6771 | PL.42444 | C | 60QA | 7.35Y | 122.5 | 0.00 | 2.49 | 2.36 | 4 | 17 | 4 | 97 | 0.00 | 0.0 | 1.918 | 0.006 | 0 | 0 | 0 | 1 |
| PL.63481 | PD.6771 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.49 | 2.36 | 1 | 17 | 4 | 97 | 0.00 | 0.0 | 1.928 | 0.010 | 0 | 0 | 0 | 1 |
| PL.63483 | PL.63481 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.49 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.979 | 0.051 | 0 | 0 | 0 | 0 |
| PL.63482 | PL.63481 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.49 | 2.36 | 1 | 17 | 4 | 97 | 0.00 | 0.0 | 1.950 | 0.022 | 17 | 4 | 1 | 1 |
| PL.41596 | PL.41855 | A | 6 A (CWC) | 7.37Y | 122.8 | 0.00 | 2.23 | 0.50 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 1.730 | 0.059 | 4 | 1 | 3 | 3 |
| PL.56066 | PL.41855 | C | 6 A (CWC) | 7.37Y | 122.8 | 0.01 | 2.23 | 21.70 | 15 | 154 | 41 | 97 | 0.01 | 0.0 | 1.679 | 0.008 | 0 | 0 | 0 | 23 |
| PD.8294 | PL.56066 | C | 75QA | 7.37Y | 122.8 | 0.00 | 2.23 | 21.70 | 29 | 154 | 41 | 97 | 0.00 | 0.0 | 1.679 | 0.008 | 0 | 0 | 0 | 23 |
| PL.56067 | PD.8294 | C | 6 A (CWC) | 7.36Y | 122.7 | 0.08 | 2.31 | 21.70 | 15 | 154 | 41 | 97 | 0.09 | 0.1 | 1.758 | 0.079 | 0 | 0 | 0 | 23 |
| PL.53047 | PL.56067 | C | #2 ACSR | 7.36Y | 122.7 | 0.00 | 2.31 | 0.09 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 1.857 | 0.099 | 1 | 0 | 1 | 1 |
| PL.41335 | PL.56067 | C | #2 ACSR | 7.36Y | 122.7 | 0.00 | 2.31 | 1.61 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 1.841 | 0.084 | 11 | 3 | 1 | 1 |
| PL.41592 | PL.56067 | C | 6 A (CWC) | 7.35Y | 122.6 | 0.11 | 2.42 | 20.00 | 14 | 142 | 38 | 97 | 0.11 | 0.1 | 1.880 | 0.123 | 10 | 3 | 1 | 21 |
| PL.41386 | PL.41592 | C | 6 A (CWC) | 7.35Y | 122.6 | 0.00 | 2.42 | 2.19 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 1.927 | 0.046 | 16 | 4 | 3 | 3 |
| PL.41727 | PL.41592 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.04 | 2.46 | 16.41 | 12 | 117 | 31 | 97 | 0.03 | 0.0 | 1.931 | 0.051 | 0 | 0 | 0 | 17 |
| PL.41644 | PL.41727 | C | 6 A (CWC) | 7.35Y | 122.4 | 0.09 | 2.55 | 14.62 | 10 | 104 | 28 | 97 | 0.07 | 0.1 | 2.072 | 0.140 | 0 | 0 | 0 | 15 |
| PL.41812 | PL.41644 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.12 | 2.67 | 14.62 | 10 | 104 | 28 | 97 | 0.09 | 0.1 | 2.254 | 0.182 | 0 | 0 | 0 | 15 |
| PL.41646 | PL.41812 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.68 | 1.18 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 2.300 | 0.045 | 6 | 2 | 1 | 3 |
| PL.41811 | PL.41646 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.68 | 0.37 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 2.353 | 0.053 | 1 | 0 | 1 | 2 |
| PL.41645 | PL.41811 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.68 | 0.29 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 2.388 | 0.035 | 2 | 1 | 1 | 1 |
| PL.55907 | PL.41812 | C | #1/0 ACSR | 7.34Y | 122.3 | 0.00 | 2.67 | 1.29 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.292 | 0.038 | 9 | 2 | 1 | 1 |
| PL.41690 | PL.41812 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.05 | 2.72 | 12.15 | 9 | 86 | 23 | 97 | 0.03 | 0.0 | 2.342 | 0.088 | 13 | 3 | 2 | 11 |
| PL.53042 | PL.41690 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.02 | 2.74 | 10.32 | 7 | 73 | 20 | 96 | 0.01 | 0.0 | 2.395 | 0.053 | 8 | 2 | 1 | 9 |
| PL.55925 | PL.53042 | C | #1/0 ACSR | 7.34Y | 122.3 | 0.00 | 2.74 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.458 | 0.063 | 0 | 0 | 0 | 0 |
| PL.53043 | PL.53042 | C | 6 A (CWC) | 7.33Y | 122.2 | 0.02 | 2.76 | 9.17 | 7 | 65 | 17 | 97 | 0.01 | 0.0 | 2.447 | 0.053 | 15 | 4 | 3 | 8 |
| PL.41724 | PL.53043 | C | #1/0 ACSR | 7.33Y | 122.2 | 0.00 | 2.76 | 1.14 | 0 | 8 | 2 | 97 | 0.00 | 0.0 | 2.499 | 0.052 | 8 | 2 | 1 | 1 |
| PL.53044 | PL.53043 | C | 6 A (CWC) | 7.33Y | 122.2 | 0.00 | 2.76 | 1.52 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.497 | 0.049 | 11 | 3 | 1 | 1 |
| PL.42030 | PL.53043 | C | 6 A (CWC) | 7.33Y | 122.2 | 0.01 | 2.77 | 4.41 | 3 | 31 | 8 | 97 | 0.00 | 0.0 | 2.481 | 0.034 | 0 | 0 | 0 | 3 |
| PL.41747 | PL.42030 | C | 6 A (CWC) | 7.33Y | 122.2 | 0.01 | 2.78 | 4.41 | 3 | 31 | 8 | 97 | 0.00 | 0.0 | 2.522 | 0.041 | 0 | 0 | 0 | 3 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.41748 | PL.41747 | C | 6 A (CWC) | 7.33Y | 122.2 | 0.00 | 2.78 | 1.42 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 2.578 | 0.055 | 10 | 3 | 1 | 1 |
| PL.41745 | PL.41747 | C | 6 A (CWC) | 7.33Y | 122.2 | 0.01 | 2.78 | 3.00 | 2 | 21 | 6 | 96 | 0.00 | 0.0 | 2.583 | 0.060 | 7 | 2 | 1 | 2 |
| PL.41746 | PL.41745 | C | 6 A (CWC) | 7.33Y | 122.2 | 0.00 | 2.79 | 1.97 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 2.609 | 0.026 | 14 | 4 | 1 | 1 |
| PL.41728 | PL.41727 | C | #2 ACSR | 7.35Y | 122.5 | 0.00 | 2.46 | 1.79 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 1.994 | 0.063 | 2 | 1 | 1 | 2 |
| PL.41729 | PL.41728 | C | #2 ACSR | 7.35Y | 122.5 | 0.00 | 2.46 | 1.52 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.050 | 0.056 | 11 | 3 | 1 | 1 |
| PL.42901 | PL.42899 | C | #1/0 ACSR | 7.37Y | 122.9 | 0.00 | 2.08 | 1.84 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 1.567 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6456 | PL.42901 | C | 30QA | 7.37Y | 122.9 | 0.00 | 2.08 | 1.84 | 6 | 13 | 4 | 96 | 0.00 | 0.0 | 1.567 | 0.006 | 0 | 0 | 0 | 2 |
| PL.53048 | PD.6456 | C | #1/0 ACSR | 7.37Y | 122.9 | 0.00 | 2.09 | 1.84 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 1.685 | 0.118 | 4 | 1 | 1 | 2 |
| PL.52888 | PL.53048 | C | #1/0 ACSR | 7.37Y | 122.9 | 0.00 | 2.09 | 1.31 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 1.700 | 0.015 | 9 | 2 | 1 | 1 |
| PL.42897 | PL.55905 | C | 6 A (CWC) | 7.38Y | 123.0 | 0.00 | 1.97 | 1.97 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 1.483 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6690 | PL.42897 | C | 60QA | 7.38Y | 123.0 | 0.00 | 1.97 | 1.97 | 3 | 14 | 4 | 96 | 0.00 | 0.0 | 1.483 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42898 | PD.6690 | C | 6 A (CWC) | 7.38Y | 123.0 | 0.00 | 1.97 | 1.97 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 1.557 | 0.073 | 14 | 4 | 2 | 2 |
| PL.55904 | PL.64790 | A | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.89 | 1.01 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 1.431 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6455 | PL.55904 | A | 60QA | 7.39Y | 123.1 | 0.00 | 1.89 | 1.01 | 2 | 7 | 2 | 96 | 0.00 | 0.0 | 1.431 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42896 | PD.6455 | A | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.89 | 1.01 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 1.492 | 0.061 | 7 | 2 | 1 | 1 |
| PL.62505 | PL.62431 | C | #1/0 ACSR | 7.41Y | 123.5 | 0.01 | 1.49 | 51.58 | 22 | 369 | 100 | 97 | 0.03 | 0.0 | 1.162 | 0.011 | 4 | 1 | 1 | 80 |
| PL.62506 | PL.62505 | C | #1/0 ACSR | 7.41Y | 123.4 | 0.06 | 1.56 | 51.03 | 22 | 365 | 99 | 97 | 0.15 | 0.0 | 1.216 | 0.054 | 0 | 0 | 0 | 79 |
| PL.42090 | PL.62506 | C | #1/0 ACSR | 7.41Y | 123.4 | 0.01 | 1.56 | 51.03 | 22 | 365 | 99 | 97 | 0.02 | 0.0 | 1.222 | 0.006 | 0 | 0 | 0 | 79 |
| C PD.6792 | PL.42090 | C | 50L | 7.41Y | 123.4 | 0.00 | 1.56 | 51.03 | 102 | 365 | 99 | 97 | 0.00 | 0.0 | 1.222 | 0.006 | 0 | 0 | 0 | 79 C |
| PL.55819 | PD.6792 | C | #1/0 ACSR | 7.40Y | 123.3 | 0.15 | 1.71 | 51.03 | 22 | 365 | 99 | 97 | 0.36 | 0.1 | 1.352 | 0.131 | 10 | 3 | 1 | 79 |
| PL.64684 | PL.55819 | C | #1/0 ACSR | 7.40Y | 123.3 | 0.00 | 1.71 | 49.56 | 22 | 354 | 96 | 97 | 0.00 | 0.0 | 1.352 | 0.000 | 0 | 0 | 0 | 78 |
| PL.64685 | PL.64684 | C | #1/0 ACSR | 7.39Y | 123.2 | 0.04 | 1.76 | 49.56 | 22 | 354 | 96 | 97 | 0.10 | 0.0 | 1.389 | 0.037 | 0 | 0 | 0 | 78 |
| PL.64686 | PL.64685 | C | #1/0 ACSR | 7.39Y | 123.2 | 0.03 | 1.79 | 49.56 | 22 | 354 | 96 | 97 | 0.08 | 0.0 | 1.420 | 0.030 | 1 | 0 | 1 | 78 |
| PL.55818 | PL.64686 | C | #1/0 ACSR | 7.39Y | 123.1 | 0.07 | 1.86 | 49.42 | 21 | 353 | 95 | 97 | 0.17 | 0.0 | 1.484 | 0.064 | 7 | 2 | 1 | 77 |
| PL.55901 | PL.55818 | C | #1/0 ACSR | 7.39Y | 123.1 | 0.05 | 1.91 | 48.42 | 21 | 345 | 93 | 97 | 0.11 | 0.0 | 1.525 | 0.042 | 0 | 0 | 0 | 76 |
| PL.55902 | PL.55901 | C | #1/0 ACSR | 7.38Y | 123.0 | 0.06 | 1.97 | 46.96 | 20 | 335 | 90 | 97 | 0.13 | 0.0 | 1.582 | 0.057 | 8 | 2 | 1 | 75 |
| PL.55485 | PL.55902 | C | #1/0 ACSR | 7.38Y | 122.9 | 0.10 | 2.07 | 45.78 | 20 | 326 | 88 | 97 | 0.21 | 0.1 | 1.675 | 0.093 | 3 | 1 | 2 | 74 |
| PL.55484 | PL.55485 | C | #1/0 ACSR | 7.37Y | 122.8 | 0.10 | 2.16 | 45.34 | 20 | 323 | 87 | 97 | 0.20 | 0.1 | 1.767 | 0.091 | 0 | 0 | 0 | 72 |
| PL.51535 | PL.55484 | C | #1/0 ACSR | 7.37Y | 122.8 | 0.05 | 2.22 | 31.51 | 14 | 224 | 60 | 97 | 0.08 | 0.0 | 1.840 | 0.073 | 10 | 3 | 2 | 54 |
| PL.51536 | PL.51535 | C | #1/0 ACSR | 7.36Y | 122.7 | 0.05 | 2.26 | 30.12 | 13 | 214 | 58 | 97 | 0.07 | 0.0 | 1.909 | 0.070 | 0 | 0 | 5 | 52 |
| PL.51834 | PL.51536 | C | #4 ACSR | 7.36Y | 122.7 | 0.05 | 2.31 | 15.97 | 12 | 114 | 30 | 97 | 0.04 | 0.0 | 1.978 | 0.069 | 4 | 1 | 1 | 30 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.53040 | PL.51834 | C | #4 ACSR | 7.36Y | 122.7 | 0.01 | 2.32 | 15.41 | 12 | 110 | 29 | 97 | 0.01 | 0.0 | 1.988 | 0.009 | 0 | 0 | 1 | 29 |
| PL.53041 | PL.53040 | C | #4 ACSR | 7.36Y | 122.7 | 0.02 | 2.34 | 15.41 | 12 | 110 | 29 | 97 | 0.02 | 0.0 | 2.018 | 0.030 | 0 | 0 | 0 | 28 |
| PL.55432 | PL.53041 | C | #4 ACSR | 7.36Y | 122.7 | 0.00 | 2.34 | 1.50 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.090 | 0.073 | 11 | 3 | 4 | 4 |
| PL.53039 | PL.53041 | C | #4 ACSR | 7.36Y | 122.6 | 0.07 | 2.41 | 13.91 | 11 | 99 | 26 | 97 | 0.05 | 0.1 | 2.125 | 0.107 | 0 | 0 | 0 | 24 |
| PL.59352 | PL.53039 | C | #4 ACSR | 7.35Y | 122.6 | 0.02 | 2.43 | 13.91 | 11 | 99 | 26 | 97 | 0.02 | 0.0 | 2.161 | 0.036 | 10 | 3 | 2 | 24 |
| PL.59353 | PL.59352 | C | #4 ACSR | 7.35Y | 122.5 | 0.02 | 2.45 | 12.44 | 10 | 88 | 24 | 96 | 0.01 | 0.0 | 2.211 | 0.050 | 30 | 8 | 6 | 22 |
| PL.59317 | PL.59353 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.45 | 2.80 | 1 | 20 | 5 | 97 | 0.00 | 0.0 | 2.239 | 0.028 | 20 | 5 | 7 | 7 |
| PL.59350 | PL.59353 | C | #4 ACSR | 7.35Y | 122.5 | 0.01 | 2.46 | 5.47 | 4 | 39 | 10 | 97 | 0.00 | 0.0 | 2.262 | 0.052 | 12 | 3 | 1 | 9 |
| PL.64306 | PL.59350 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.46 | 1.67 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 2.301 | 0.038 | 2 | 1 | 3 | 5 |
| PL.64307 | PL.64306 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.46 | 1.38 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 2.325 | 0.025 | 0 | 0 | 0 | 2 |
| PL.66151 | PL.64307 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.46 | 1.38 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 2.348 | 0.023 | 10 | 3 | 2 | 2 |
| PL.59351 | PL.59350 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.46 | 2.13 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 2.284 | 0.022 | 15 | 4 | 3 | 3 |
| PL.59131 | PL.51536 | C | #1/0 ACSR | 7.36Y | 122.7 | 0.04 | 2.30 | 14.14 | 6 | 101 | 27 | 97 | 0.02 | 0.0 | 2.018 | 0.109 | 0 | 0 | 0 | 17 |
| PL.59132 | PL.59131 | C | #1/0 ACSR | 7.36Y | 122.7 | 0.04 | 2.34 | 14.14 | 6 | 101 | 27 | 97 | 0.03 | 0.0 | 2.138 | 0.120 | 0 | 0 | 0 | 17 |
| PL.53045 | PL.59132 | C | #1/0 ACSR | 7.36Y | 122.7 | 0.00 | 2.34 | 0.60 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 2.169 | 0.031 | 0 | 0 | 0 | 1 |
| PL.53046 | PL.53045 | C | #1/0 ACSR | 7.36Y | 122.7 | 0.00 | 2.34 | 0.60 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 2.210 | 0.041 | 0 | 0 | 0 | 1 |
| PL.41794 | PL.53046 | C | #1/0 ACSR | 7.36Y | 122.7 | 0.00 | 2.34 | 0.60 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 2.265 | 0.055 | 4 | 1 | 1 | 1 |
| PL.51835 | PL.59132 | C | #1/0 ACSR | 7.36Y | 122.6 | 0.03 | 2.37 | 13.54 | 6 | 96 | 26 | 97 | 0.02 | 0.0 | 2.242 | 0.104 | 0 | 0 | 0 | 16 |
| PL.51836 | PL.51835 | C | #1/0 ACSR | 7.35Y | 122.6 | 0.05 | 2.42 | 13.54 | 6 | 96 | 26 | 97 | 0.03 | 0.0 | 2.407 | 0.165 | 6 | 1 | 1 | 16 |
| PL.51837 | PL.51836 | C | 6 A (CWC) | 7.35Y | 122.6 | 0.00 | 2.42 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.487 | 0.080 | 0 | 0 | 0 | 0 |
| PL.51838 | PL.51836 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.07 | 2.49 | 12.76 | 6 | 91 | 24 | 97 | 0.04 | 0.0 | 2.647 | 0.240 | 6 | 2 | 1 | 15 |
| PL.51844 | PL.51838 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.50 | 2.20 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 2.750 | 0.103 | 16 | 4 | 1 | 1 |
| PL.55750 | PL.51838 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.50 | 1.75 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 2.792 | 0.144 | 0 | 0 | 0 | 4 |
| PL.55751 | PL.55750 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.51 | 1.75 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 2.869 | 0.078 | 0 | 0 | 1 | 4 |
| PL.55752 | PL.55751 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.51 | 0.83 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 3.003 | 0.134 | 0 | 0 | 0 | 2 |
| PL.55754 | PL.55752 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.51 | 0.83 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 3.079 | 0.076 | 6 | 2 | 2 | 2 |
| PL.55753 | PL.55752 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.51 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.073 | 0.070 | 0 | 0 | 0 | 0 |
| PL.55755 | PL.55751 | C | #4 ACSR | 7.35Y | 122.5 | 0.00 | 2.51 | 0.92 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 2.948 | 0.078 | 7 | 2 | 1 | 1 |
| PL.59260 | PL.51838 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.49 | 1.08 | 0 | 8 | 2 | 97 | 0.00 | 0.0 | 2.651 | 0.004 | 0 | 0 | 0 | 1 |
| PD.8757 | PL.59260 | C | 20QA | 7.35Y | 122.5 | 0.00 | 2.49 | 1.08 | 5 | 8 | 2 | 97 | 0.00 | 0.0 | 2.651 | 0.004 | 0 | 0 | 0 | 1 |
| PL.59347 | PD.8757 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.49 | 1.08 | 0 | 8 | 2 | 97 | 0.00 | 0.0 | 2.739 | 0.088 | 8 | 2 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.59258 | PL.51838 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.01 | 2.50 | 6.82 | 3 | 48 | 13 | 97 | 0.00 | 0.0 | 2.732 | 0.085 | 0 | 0 | 0 | 8 |
| PL.59259 | PL.59258 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.01 | 2.52 | 6.82 | 3 | 48 | 13 | 97 | 0.00 | 0.0 | 2.827 | 0.096 | 9 | 3 | 1 | 8 |
| PL.51842 | PL.59259 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.52 | 5.50 | 4 | 39 | 10 | 97 | 0.00 | 0.0 | 2.847 | 0.019 | 14 | 4 | 4 | 7 |
| PL.51841 | PL.51842 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.53 | 3.47 | 2 | 25 | 7 | 96 | 0.00 | 0.0 | 2.919 | 0.072 | 8 | 2 | 1 | 3 |
| PL.51839 | PL.51841 | C | #2 ACSR | 7.35Y | 122.5 | 0.00 | 2.53 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.017 | 0.098 | 0 | 0 | 0 | 0 |
| PL.51840 | PL.51841 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.54 | 2.32 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 3.049 | 0.131 | 10 | 3 | 1 | 2 |
| PL.51843 | PL.51840 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.54 | 0.93 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 3.112 | 0.063 | 7 | 2 | 1 | 1 |
| PL.55433 | PL.55484 | C | #4 ACSR | 7.37Y | 122.8 | 0.03 | 2.20 | 13.83 | 11 | 98 | 26 | 97 | 0.02 | 0.0 | 1.823 | 0.056 | 17 | 5 | 2 | 17 |
| PL.55434 | PL.55433 | C | #4 ACSR | 7.37Y | 122.8 | 0.01 | 2.21 | 11.40 | 9 | 81 | 22 | 97 | 0.01 | 0.0 | 1.841 | 0.018 | 0 | 0 | 0 | 15 |
| PL.55435 | PL.55434 | C | #4 ACSR | 7.37Y | 122.8 | 0.01 | 2.22 | 8.56 | 7 | 61 | 16 | 97 | 0.00 | 0.0 | 1.872 | 0.031 | 15 | 4 | 1 | 13 |
| PL.55888 | PL.55435 | C | #4 ACSR | 7.37Y | 122.8 | 0.03 | 2.24 | 6.49 | 5 | 46 | 12 | 97 | 0.01 | 0.0 | 1.974 | 0.103 | 14 | 4 | 4 | 12 |
| PL.55841 | PL.55888 | C | #4 ACSR | 7.37Y | 122.8 | 0.00 | 2.24 | 1.17 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 2.002 | 0.027 | 8 | 2 | 2 | 2 |
| PL.55889 | PL.55888 | C | #4 ACSR | 7.37Y | 122.8 | 0.01 | 2.25 | 3.33 | 3 | 24 | 6 | 97 | 0.00 | 0.0 | 2.037 | 0.063 | 1 | 0 | 1 | 6 |
| PL.42701 | PL.55889 | C | #4 ACSR | 7.36Y | 122.7 | 0.00 | 2.25 | 1.67 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 2.070 | 0.033 | 12 | 3 | 3 | 3 |
| PL.41550 | PL.55889 | C | #2 ACSR | 7.36Y | 122.7 | 0.00 | 2.25 | 1.52 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.107 | 0.070 | 0 | 0 | 1 | 2 |
| PL.66267 | PL.41550 | C | #1/0 ACSR | 7.36Y | 122.7 | 0.00 | 2.25 | 1.52 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.135 | 0.028 | 11 | 3 | 1 | 1 |
| PL.55436 | PL.55434 | C | #1/0 ACSR | 7.37Y | 122.8 | 0.00 | 2.21 | 2.84 | 1 | 20 | 5 | 97 | 0.00 | 0.0 | 1.861 | 0.020 | 8 | 2 | 1 | 2 |
| PL.55437 | PL.55436 | C | #1/0 ACSR | 7.37Y | 122.8 | 0.00 | 2.21 | 1.70 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 1.942 | 0.081 | 12 | 3 | 1 | 1 |
| PL.41385 | PL.55484 | C | 6 A (CWC) | 7.37Y | 122.8 | 0.00 | 2.16 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.847 | 0.081 | 0 | 0 | 1 | 1 |
| PL.55903 | PL.55901 | C | #1/0 ACSR | 7.39Y | 123.1 | 0.00 | 1.91 | 1.46 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 1.593 | 0.068 | 10 | 3 | 1 | 1 |
| PL.42838 | PL.42837 | A | 6 A (CWC) | 7.42Y | 123.6 | 0.00 | 1.35 | 6.22 | 4 | 45 | 12 | 97 | 0.00 | 0.0 | 1.087 | 0.006 | 0 | 0 | 0 | 4 |
| PD.6722 | PL.42838 | A | 60QA | 7.42Y | 123.6 | 0.00 | 1.35 | 6.22 | 10 | 45 | 12 | 97 | 0.00 | 0.0 | 1.087 | 0.006 | 0 | 0 | 0 | 4 |
| PL.55895 | PD.6722 | A | 6 A (CWC) | 7.42Y | 123.6 | 0.05 | 1.40 | 6.22 | 4 | 45 | 12 | 97 | 0.01 | 0.0 | 1.343 | 0.256 | 29 | 8 | 2 | 4 |
| PL.55897 | PL.55895 | A | 6 A (CWC) | 7.42Y | 123.6 | 0.00 | 1.40 | 2.17 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 1.378 | 0.035 | 0 | 0 | 0 | 2 |
| PL.55898 | PL.55897 | A | #4 ACSR | 7.42Y | 123.6 | 0.00 | 1.41 | 1.19 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 1.406 | 0.028 | 0 | 0 | 0 | 1 |
| PL.55896 | PL.55898 | A | #4 ACSR | 7.42Y | 123.6 | 0.00 | 1.41 | 1.19 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 1.429 | 0.023 | 9 | 2 | 1 | 1 |
| PL.55899 | PL.55897 | A | #1/0 ACSR | 7.42Y | 123.6 | 0.00 | 1.41 | 0.97 | 0 | 7 | 2 | 96 | 0.00 | 0.0 | 1.452 | 0.074 | 0 | 0 | 0 | 1 |
| PL.55900 | PL.55899 | A | #1/0 ACSR | 7.42Y | 123.6 | 0.00 | 1.41 | 0.97 | 0 | 7 | 2 | 96 | 0.00 | 0.0 | 1.548 | 0.095 | 7 | 2 | 1 | 1 |
| PL.55628 | PL.55627 | A | 6 A (CWC) | 7.46Y | 124.3 | 0.00 | 0.71 | 2.99 | 2 | 22 | 6 | 96 | 0.00 | 0.0 | 0.746 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6721 | PL.55628 | A | 60QA | 7.46Y | 124.3 | 0.00 | 0.71 | 2.99 | 5 | 22 | 6 | 96 | 0.00 | 0.0 | 0.746 | 0.006 | 0 | 0 | 0 | 3 |
| PL.55697 | PD.6721 | A | 6 A (CWC) | 7.46Y | 124.3 | 0.00 | 0.71 | 2.99 | 2 | 22 | 6 | 96 | 0.00 | 0.0 | 0.778 | 0.032 | 8 | 2 | 1 | 3 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.55698 | PL.55697 | A | 6 A (CWC) | 7.46Y | 124.3 | 0.01 | 0.72 | 1.86 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 0.846 | 0.068 | 0 | 0 | 0 | 2 |
| PL.55696 | PL.55698 | A | 6 A (CWC) | 7.46Y | 124.3 | 0.00 | 0.72 | 1.86 | 1 | 13 | 4 | 96 | 0.00 | 0.0 | 0.913 | 0.067 | 3 | 1 | 1 | 2 |
| PL.63221 | PL.55696 | A | #1/0 ACSR | 7.46Y | 124.3 | 0.00 | 0.72 | 1.42 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 0.966 | 0.053 | 10 | 3 | 1 | 1 |
| PL.55700 | PL.55699 | C | #4 ACSR | 7.47Y | 124.4 | 0.00 | 0.57 | 3.67 | 3 | 26 | 7 | 97 | 0.00 | 0.0 | 0.674 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6452 | PL.55700 | C | 30T | 7.47Y | 124.4 | 0.00 | 0.57 | 3.67 | 0 | 26 | 7 | 97 | 0.00 | 0.0 | 0.674 | 0.006 | 0 | 0 | 0 | 3 |
| PL.41536 | PD.6452 | C | #4 ACSR | 7.47Y | 124.4 | 0.01 | 0.58 | 3.67 | 3 | 26 | 7 | 97 | 0.00 | 0.0 | 0.762 | 0.088 | 9 | 2 | 1 | 3 |
| PL.41537 | PL.41536 | C | #4 ACSR | 7.46Y | 124.4 | 0.01 | 0.59 | 2.48 | 2 | 18 | 5 | 96 | 0.00 | 0.0 | 0.879 | 0.117 | 8 | 2 | 1 | 2 |
| PL.41304 | PL.41537 | C | #4 ACSR | 7.46Y | 124.4 | 0.00 | 0.59 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.986 | 0.106 | 0 | 0 | 0 | 0 |
| PL.55625 | PL.41537 | C | #4 ACSR | 7.46Y | 124.4 | 0.00 | 0.59 | 1.34 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 0.978 | 0.099 | 10 | 3 | 1 | 1 |
| PL.55626 | PL.55625 | C | #4 ACSR | 7.46Y | 124.4 | 0.00 | 0.59 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.023 | 0.045 | 0 | 0 | 0 | 0 |
| PL.41532 | PL.55735 | A | #2 ACSR | 7.47Y | 124.6 | 0.00 | 0.44 | 5.57 | 3 | 40 | 11 | 96 | 0.00 | 0.0 | 0.520 | 0.006 | 0 | 0 | 0 | 8 |
| PD.6451 | PL.41532 | A | 60QA | 7.47Y | 124.6 | 0.00 | 0.44 | 5.57 | 9 | 40 | 11 | 96 | 0.00 | 0.0 | 0.520 | 0.006 | 0 | 0 | 0 | 8 |
| PL.55732 | PD.6451 | A | #2 ACSR | 7.47Y | 124.5 | 0.02 | 0.46 | 5.57 | 3 | 40 | 11 | 96 | 0.00 | 0.0 | 0.620 | 0.101 | 8 | 2 | 1 | 8 |
| PL.55733 | PL.55732 | A | #2 ACSR | 7.47Y | 124.5 | 0.01 | 0.46 | 4.50 | 3 | 33 | 9 | 96 | 0.00 | 0.0 | 0.670 | 0.050 | 9 | 2 | 2 | 7 |
| PL.55892 | PL.55733 | A | #2 ACSR | 7.47Y | 124.5 | 0.00 | 0.47 | 3.29 | 2 | 24 | 6 | 97 | 0.00 | 0.0 | 0.731 | 0.061 | 15 | 4 | 2 | 5 |
| PL.55893 | PL.55892 | A | #2 ACSR | 7.47Y | 124.5 | 0.00 | 0.47 | 1.28 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 0.788 | 0.057 | 0 | 0 | 2 | 3 |
| PL.55794 | PL.55893 | A | #2 ACSR | 7.47Y | 124.5 | 0.00 | 0.47 | 1.27 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 0.843 | 0.054 | 0 | 0 | 0 | 1 |
| PL.55795 | PL.55794 | A | #2 ACSR | 7.47Y | 124.5 | 0.00 | 0.47 | 1.27 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 0.910 | 0.067 | 9 | 2 | 1 | 1 |
| PL.41533 | PL.55735 | C | #4 ACSR | 7.47Y | 124.6 | 0.00 | 0.44 | 1.33 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 0.520 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6770 | PL.41533 | C | 60QA | 7.47Y | 124.6 | 0.00 | 0.44 | 1.33 | 2 | 10 | 3 | 96 | 0.00 | 0.0 | 0.520 | 0.006 | 0 | 0 | 0 | 1 |
| PL.41534 | PD.6770 | C | #4 ACSR | 7.47Y | 124.6 | 0.00 | 0.44 | 1.33 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 0.590 | 0.070 | 10 | 3 | 1 | 1 |
| PL.41872 | PL.59410 | C | #4 ACSR | 7.49Y | 124.8 | 0.00 | 0.23 | 4.27 | 3 | 31 | 8 | 97 | 0.00 | 0.0 | 0.268 | 0.006 | 0 | 0 | 0 | 5 |
| PD.6450 | PL.41872 | C | 75QA | 7.49Y | 124.8 | 0.00 | 0.23 | 4.27 | 6 | 31 | 8 | 97 | 0.00 | 0.0 | 0.268 | 0.006 | 0 | 0 | 0 | 5 |
| PL.41873 | PD.6450 | C | #4 ACSR | 7.49Y | 124.8 | 0.01 | 0.24 | 4.27 | 3 | 31 | 8 | 97 | 0.00 | 0.0 | 0.324 | 0.056 | 3 | 1 | 1 | 5 |
| PL.41874 | PL.41873 | C | #4 ACSR | 7.49Y | 124.8 | 0.01 | 0.25 | 3.89 | 3 | 28 | 8 | 96 | 0.00 | 0.0 | 0.365 | 0.042 | 1 | 0 | 1 | 4 |
| PL.41529 | PL.41874 | C | #2 ACSR | 7.48Y | 124.7 | 0.00 | 0.25 | 2.35 | 1 | 17 | 5 | 96 | 0.00 | 0.0 | 0.433 | 0.067 | 8 | 2 | 1 | 2 |
| PL.41530 | PL.41529 | C | #2 ACSR | 7.48Y | 124.7 | 0.00 | 0.25 | 1.20 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 0.503 | 0.071 | 9 | 2 | 1 | 1 |
| PL.41875 | PL.41874 | C | #4 ACSR | 7.49Y | 124.8 | 0.00 | 0.25 | 1.45 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 0.417 | 0.052 | 10 | 3 | 1 | 1 |
| PL.59423 | PL.59425 | ABC | #1/0 ACSR | 7.50Y | 125.0 | 0.00 | 0.03 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.036 | 0.007 | 0 | 0 | 0 | 0 |
| PL.59283 | Keavy 2 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.01 | 0.01 | 236.98 | 46 | 5020 | 1796 | 94 | 0.14 | 0.0 | 0.003 | 0.003 | 0 | 0 | 0 | 677 |
| PL.59284 | PL.59283 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.00 | 0.01 | 236.98 | 46 | 5020 | 1796 | 94 | 0.08 | 0.0 | 0.005 | 0.002 | 0 | 0 | 0 | 677 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|---|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| ----- Feeder No. 4 (Bald Rock F4) Beginning with Device PD.8771 ----- | | | | | | | | | | | | | | | | | | | | |
| PD.8771 | PL.59284 | ABC | 400VWE | 7.50Y | 125.0 | 0.00 | 0.01 | 236.98 | 0 | 5020 | 1796 | 94 | 0.00 | 0.0 | 0.005 | 0.002 | 0 | 0 | 0 | 677 |
| PL.59282 | PD.8771 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.01 | 0.02 | 236.98 | 46 | 5020 | 1796 | 94 | 0.19 | 0.0 | 0.009 | 0.004 | 0 | 0 | 0 | 677 |
| PL.59427 | PL.59282 | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.00 | 0.02 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.009 | 0.000 | 0 | 0 | 0 | 0 |
| PD.8769-B | PL.59427 | ABC | Open | 7.50Y | 125.0 | 0.00 | 0.02 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.009 | 0.000 | 0 | 0 | 0 | 0 |
| PL.59424 | PL.59282 | ABC | 336 MCM AC | 7.49Y | 124.9 | 0.09 | 0.11 | 236.98 | 46 | 5020 | 1795 | 94 | 2.28 | 0.0 | 0.057 | 0.048 | 0 | 0 | 0 | 677 |
| PL.59421 | PL.59424 | ABC | 336 MCM AC | 7.49Y | 124.8 | 0.12 | 0.23 | 236.98 | 46 | 5018 | 1790 | 94 | 3.02 | 0.1 | 0.121 | 0.064 | 0 | 0 | 0 | 677 |
| PL.52993 | PL.59421 | C | #3/0 ACSR | 7.49Y | 124.8 | 0.00 | 0.23 | 0.59 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 0.126 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6675 | PL.52993 | C | 75QA | 7.49Y | 124.8 | 0.00 | 0.23 | 0.59 | 1 | 4 | 1 | 97 | 0.00 | 0.0 | 0.126 | 0.006 | 0 | 0 | 0 | 1 |
| PL.56838 | PD.6675 | C | #3/0 ACSR | 7.49Y | 124.8 | 0.00 | 0.23 | 0.59 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 0.151 | 0.024 | 4 | 1 | 1 | 1 |
| PL.52994 | PL.59421 | ABC | 336 MCM AC | 7.48Y | 124.6 | 0.17 | 0.40 | 236.78 | 46 | 5010 | 1782 | 94 | 4.23 | 0.1 | 0.210 | 0.090 | 16 | 4 | 2 | 676 |
| PL.42122 | PL.52994 | ABC | 336 MCM AC | 7.47Y | 124.4 | 0.15 | 0.55 | 235.75 | 45 | 4984 | 1766 | 94 | 3.76 | 0.1 | 0.291 | 0.081 | 13 | 3 | 1 | 673 |
| PL.42123 | PL.42122 | ABC | 336 MCM AC | 7.46Y | 124.4 | 0.04 | 0.60 | 235.16 | 45 | 4967 | 1754 | 94 | 1.10 | 0.0 | 0.314 | 0.024 | 0 | 0 | 0 | 672 |
| PL.42124 | PL.42123 | C | 6 A (CWC) | 7.46Y | 124.4 | 0.00 | 0.60 | 5.12 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 0.320 | 0.006 | 0 | 0 | 0 | 9 |
| PD.6518 | PL.42124 | C | 75QA | 7.46Y | 124.4 | 0.00 | 0.60 | 5.12 | 7 | 37 | 10 | 97 | 0.00 | 0.0 | 0.320 | 0.006 | 0 | 0 | 0 | 9 |
| PL.42125 | PD.6518 | C | 6 A (CWC) | 7.46Y | 124.4 | 0.01 | 0.61 | 5.12 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 0.349 | 0.029 | 8 | 2 | 3 | 9 |
| PL.42126 | PL.42125 | C | 6 A (CWC) | 7.46Y | 124.4 | 0.00 | 0.61 | 4.03 | 3 | 29 | 8 | 96 | 0.00 | 0.0 | 0.379 | 0.030 | 9 | 3 | 3 | 6 |
| PL.42127 | PL.42126 | C | 6 A (CWC) | 7.46Y | 124.4 | 0.00 | 0.62 | 2.73 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 0.414 | 0.034 | 0 | 0 | 0 | 3 |
| PL.42128 | PL.42127 | C | 6 A (CWC) | 7.46Y | 124.4 | 0.00 | 0.62 | 2.73 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 0.461 | 0.047 | 7 | 2 | 1 | 3 |
| PL.42129 | PL.42128 | C | 6 A (CWC) | 7.46Y | 124.4 | 0.00 | 0.62 | 1.76 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 0.492 | 0.031 | 2 | 1 | 1 | 2 |
| PL.42130 | PL.42129 | C | 6 A (CWC) | 7.46Y | 124.4 | 0.00 | 0.62 | 1.44 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 0.551 | 0.059 | 10 | 3 | 1 | 1 |
| PL.42176 | PL.42123 | ABC | 336 MCM AC | 7.45Y | 124.2 | 0.21 | 0.81 | 233.46 | 45 | 4929 | 1741 | 94 | 5.18 | 0.1 | 0.427 | 0.113 | 8 | 2 | 2 | 663 |
| PL.56486 | PL.42176 | ABC | 336 MCM AC | 7.44Y | 123.9 | 0.26 | 1.08 | 233.07 | 45 | 4916 | 1727 | 94 | 6.48 | 0.1 | 0.569 | 0.142 | 0 | 0 | 0 | 661 |
| PL.56487 | PL.56486 | ABC | 336 MCM AC | 7.43Y | 123.9 | 0.06 | 1.14 | 233.07 | 45 | 4909 | 1712 | 94 | 1.57 | 0.0 | 0.603 | 0.034 | 2 | 1 | 1 | 661 |
| PL.56488 | PL.56487 | ABC | 336 MCM AC | 7.41Y | 123.5 | 0.34 | 1.48 | 232.98 | 45 | 4905 | 1708 | 94 | 8.33 | 0.2 | 0.786 | 0.182 | 1 | 0 | 1 | 660 |
| PL.56748 | PL.56488 | C | #1/0 ACSR | 7.41Y | 123.5 | 0.00 | 1.48 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.790 | 0.004 | 0 | 0 | 0 | 2 |
| PD.8242 | PL.56748 | C | 20QA | 7.41Y | 123.5 | 0.00 | 1.48 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.790 | 0.004 | 0 | 0 | 0 | 2 |
| PL.59392 | PD.8242 | C | #1/0 ACSR | 7.41Y | 123.5 | 0.00 | 1.48 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.837 | 0.047 | 0 | 0 | 1 | 2 |
| PL.59393 | PL.59392 | C | #1/0 ACSR | 7.41Y | 123.5 | 0.00 | 1.48 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 0.899 | 0.063 | 0 | 0 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.56960 | PL.56488 | ABC | 336 MCM AC | 7.41Y | 123.5 | 0.05 | 1.53 | 232.93 | 45 | 4896 | 1688 | 95 | 1.12 | 0.0 | 0.810 | 0.025 | 14 | 4 | 1 | 657 |
| PL.56958 | PL.56960 | ABC | 336 MCM AC | 7.40Y | 123.4 | 0.08 | 1.61 | 232.26 | 45 | 4881 | 1681 | 95 | 1.95 | 0.0 | 0.853 | 0.043 | 8 | 2 | 1 | 656 |
| PL.56959 | PL.56958 | ABC | 336 MCM AC | 7.40Y | 123.3 | 0.11 | 1.71 | 231.91 | 45 | 4871 | 1675 | 95 | 2.61 | 0.1 | 0.911 | 0.058 | 0 | 0 | 0 | 655 |
| PL.41898 | PL.56959 | A | 6 A (CWC) | 7.40Y | 123.3 | 0.00 | 1.71 | 3.25 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 0.916 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6745 | PL.41898 | A | 60QA | 7.40Y | 123.3 | 0.00 | 1.71 | 3.25 | 5 | 23 | 6 | 97 | 0.00 | 0.0 | 0.916 | 0.006 | 0 | 0 | 0 | 3 |
| PL.56507 | PD.6745 | A | 6 A (CWC) | 7.40Y | 123.3 | 0.00 | 1.72 | 3.25 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 0.951 | 0.035 | 11 | 3 | 2 | 3 |
| PL.56508 | PL.56507 | A | 6 A (CWC) | 7.40Y | 123.3 | 0.00 | 1.72 | 1.74 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 0.983 | 0.032 | 12 | 3 | 1 | 1 |
| PL.41899 | PL.56959 | ABC | 336 MCM AC | 7.40Y | 123.3 | 0.02 | 1.74 | 230.83 | 44 | 4845 | 1663 | 95 | 0.57 | 0.0 | 0.923 | 0.013 | 0 | 0 | 0 | 652 |
| PL.62037 | PL.41899 | ABC | 336 MCM AC | 7.39Y | 123.2 | 0.03 | 1.77 | 230.83 | 44 | 4845 | 1661 | 95 | 0.75 | 0.0 | 0.940 | 0.017 | 0 | 0 | 0 | 652 |
| PL.62038 | PL.62037 | ABC | 336 MCM AC | 7.39Y | 123.1 | 0.13 | 1.89 | 230.83 | 44 | 4844 | 1659 | 95 | 3.06 | 0.1 | 1.009 | 0.068 | 17 | 4 | 2 | 652 |
| PL.41509 | PL.62038 | ABC | 336 MCM AC | 7.38Y | 122.9 | 0.19 | 2.08 | 230.04 | 44 | 4824 | 1648 | 95 | 4.66 | 0.1 | 1.113 | 0.105 | 14 | 4 | 1 | 650 |
| PL.41732 | PL.41509 | ABC | 336 MCM AC | 7.37Y | 122.9 | 0.01 | 2.10 | 50.07 | 10 | 1024 | 424 | 92 | 0.07 | 0.0 | 1.146 | 0.033 | 9 | 2 | 1 | 54 |
| PL.41733 | PL.41732 | ABC | 336 MCM AC | 7.37Y | 122.9 | 0.04 | 2.14 | 49.64 | 10 | 1014 | 421 | 92 | 0.21 | 0.0 | 1.246 | 0.100 | 0 | 0 | 1 | 53 |
| PL.41769 | PL.41733 | ABC | 336 MCM AC | 7.37Y | 122.8 | 0.05 | 2.18 | 49.64 | 10 | 1014 | 421 | 92 | 0.22 | 0.0 | 1.353 | 0.107 | 0 | 0 | 0 | 52 |
| PL.41867 | PL.41769 | A | #4 ACSR | 7.37Y | 122.8 | 0.01 | 2.19 | 4.15 | 3 | 30 | 8 | 97 | 0.00 | 0.0 | 1.444 | 0.091 | 30 | 8 | 1 | 1 |
| PL.41770 | PL.41769 | ABC | 336 MCM AC | 7.37Y | 122.8 | 0.02 | 2.20 | 48.27 | 9 | 984 | 413 | 92 | 0.10 | 0.0 | 1.403 | 0.050 | 0 | 0 | 0 | 51 |
| PL.41771 | PL.41770 | ABC | 336 MCM AC | 7.37Y | 122.8 | 0.00 | 2.21 | 48.27 | 9 | 984 | 412 | 92 | 0.01 | 0.0 | 1.408 | 0.006 | 0 | 0 | 0 | 51 |
| PD.6790 | PL.41771 | ABC | 240VWE | 7.37Y | 122.8 | 0.00 | 2.21 | 48.27 | 0 | 984 | 412 | 92 | 0.00 | 0.0 | 1.408 | 0.006 | 0 | 0 | 0 | 51 |
| PL.41772 | PD.6790 | ABC | 336 MCM AC | 7.37Y | 122.8 | 0.01 | 2.22 | 48.27 | 9 | 984 | 412 | 92 | 0.07 | 0.0 | 1.442 | 0.034 | 0 | 0 | 0 | 51 |
| PL.41850 | PL.41772 | ABC | #1/0 ACSR | 7.36Y | 122.7 | 0.07 | 2.29 | 41.53 | 18 | 839 | 373 | 91 | 0.40 | 0.0 | 1.529 | 0.087 | 0 | 0 | 0 | 26 |
| PL.42626 | PL.41850 | ABC | #1/0 ACSR | 7.36Y | 122.6 | 0.11 | 2.40 | 38.21 | 17 | 766 | 354 | 91 | 0.60 | 0.1 | 1.683 | 0.154 | 0 | 0 | 0 | 10 |
| PL.42627 | PL.42626 | ABC | #1/0 ACSR | 7.35Y | 122.5 | 0.06 | 2.46 | 37.75 | 16 | 756 | 351 | 91 | 0.31 | 0.0 | 1.766 | 0.083 | 4 | 1 | 1 | 9 |
| PL.42628 | PL.42627 | ABC | #1/0 ACSR | 7.35Y | 122.5 | 0.08 | 2.54 | 37.29 | 16 | 745 | 348 | 91 | 0.40 | 0.1 | 1.874 | 0.108 | 0 | 0 | 0 | 7 |
| PL.42629 | PL.42628 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.54 | 2.43 | 1 | 17 | 5 | 96 | 0.00 | 0.0 | 1.880 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6118 | PL.42629 | C | 40QA | 7.35Y | 122.5 | 0.00 | 2.54 | 2.43 | 6 | 17 | 5 | 96 | 0.00 | 0.0 | 1.880 | 0.006 | 0 | 0 | 0 | 3 |
| PL.42630 | PD.6118 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.54 | 2.43 | 1 | 17 | 5 | 96 | 0.00 | 0.0 | 1.895 | 0.015 | 7 | 2 | 1 | 3 |
| PL.42631 | PL.42630 | C | #1/0 ACSR | 7.35Y | 122.5 | 0.00 | 2.54 | 1.39 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 1.923 | 0.029 | 10 | 3 | 2 | 2 |
| PL.42632 | PL.42628 | ABC | #1/0 ACSR | 7.35Y | 122.4 | 0.03 | 2.57 | 36.49 | 16 | 728 | 343 | 90 | 0.14 | 0.0 | 1.912 | 0.039 | 0 | 0 | 0 | 4 |
| PL.41891 | PL.42632 | A | 6 A (CWC) | 7.35Y | 122.4 | 0.00 | 2.57 | 1.01 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 1.963 | 0.051 | 7 | 2 | 1 | 1 |
| PL.42633 | PL.42632 | ABC | #1/0 ACSR | 7.34Y | 122.4 | 0.05 | 2.62 | 36.16 | 16 | 720 | 341 | 90 | 0.27 | 0.0 | 1.989 | 0.077 | 0 | 0 | 0 | 3 |
| PL.42634 | PL.42633 | ABC | #1/0 ACSR | 7.34Y | 122.3 | 0.07 | 2.69 | 36.16 | 16 | 720 | 340 | 90 | 0.32 | 0.0 | 2.082 | 0.093 | 0 | 0 | 0 | 3 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|-----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42635 | PL.42634 | ABC | #1/0 ACSR | 7.34Y | 122.3 | 0.05 | 2.74 | 36.16 | 16 | 720 | 340 | 90 | 0.23 | 0.0 | 2.149 | 0.067 | 3 | 1 | 1 | 3 |
| PL.42636 | PL.42635 | ABC | #1/0 ACSR | 7.33Y | 122.1 | 0.12 | 2.85 | 36.00 | 16 | 716 | 339 | 90 | 0.58 | 0.1 | 2.318 | 0.169 | 0 | 0 | 0 | 2 |
| PL.42637 | PL.42636 | ABC | 1/0 AL URD | 7.33Y | 122.1 | 0.00 | 2.86 | 36.00 | 21 | 716 | 338 | 90 | 0.03 | 0.0 | 2.324 | 0.006 | 0 | 0 | 0 | 2 |
| C PD.6718 | PL.42637 | ABC | 40QA | 7.33Y | 122.1 | 0.00 | 2.86 | 36.01 | 90 | 716 | 338 | 90 | 0.00 | 0.0 | 2.324 | 0.006 | 0 | 0 | 0 | 2 C |
| PL.42638 | PD.6718 | ABC | 1/0 AL URD | 7.30Y | 121.7 | 0.48 | 3.33 | 36.01 | 21 | 716 | 338 | 90 | 2.96 | 0.4 | 2.985 | 0.661 | 0 | 0 | 0 | 2 |
| PL.52666 | PL.42638 | ABC | #2 ACSR | 7.30Y | 121.6 | 0.02 | 3.36 | 36.16 | 21 | 713 | 345 | 90 | 0.13 | 0.0 | 3.010 | 0.025 | 0 | 0 | 0 | 2 |
| PL.52667 | PL.52666 | ABC | #2 ACSR | 7.30Y | 121.6 | 0.00 | 3.36 | 36.16 | 21 | 713 | 345 | 90 | 0.01 | 0.0 | 3.016 | 0.007 | 713 | 345 | 2 | 2 |
| PL.41465 | PL.42627 | A | #4 ACSR | 7.35Y | 122.5 | 0.00 | 2.47 | 0.83 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 1.902 | 0.136 | 6 | 2 | 1 | 1 |
| PL.58556 | PL.42626 | C | #4 ACSR | 7.36Y | 122.6 | 0.00 | 2.40 | 1.42 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 1.685 | 0.003 | 0 | 0 | 0 | 1 |
| PD.8619 | PL.58556 | C | 25T | 7.36Y | 122.6 | 0.00 | 2.40 | 1.42 | 0 | 10 | 3 | 96 | 0.00 | 0.0 | 1.685 | 0.003 | 0 | 0 | 0 | 1 |
| PL.58557 | PD.8619 | C | #4 ACSR | 7.36Y | 122.6 | 0.00 | 2.41 | 1.42 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 1.779 | 0.094 | 10 | 3 | 1 | 1 |
| PL.66650 | PL.41850 | A | 6 A (CWC) | 7.36Y | 122.7 | 0.00 | 2.29 | 10.11 | 7 | 72 | 19 | 97 | 0.00 | 0.0 | 1.532 | 0.003 | 0 | 0 | 0 | 16 |
| PD.10407 | PL.66650 | A | 30T | 7.36Y | 122.7 | 0.00 | 2.29 | 10.11 | 0 | 72 | 19 | 97 | 0.00 | 0.0 | 1.532 | 0.003 | 0 | 0 | 0 | 16 |
| PL.66651 | PD.10407 | A | 6 A (CWC) | 7.35Y | 122.6 | 0.15 | 2.44 | 10.11 | 7 | 72 | 19 | 97 | 0.08 | 0.1 | 1.860 | 0.328 | 0 | 0 | 0 | 16 |
| PL.56242 | PL.66651 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.46 | 10.11 | 7 | 72 | 19 | 97 | 0.01 | 0.0 | 1.892 | 0.032 | 0 | 0 | 0 | 16 |
| PL.41783 | PL.56242 | A | #4 ACSR | 7.35Y | 122.5 | 0.00 | 2.46 | 5.24 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 1.898 | 0.006 | 0 | 0 | 0 | 4 |
| PD.6577 | PL.41783 | A | 50T | 7.35Y | 122.5 | 0.00 | 2.46 | 5.24 | 0 | 37 | 10 | 97 | 0.00 | 0.0 | 1.898 | 0.006 | 0 | 0 | 0 | 4 |
| PL.56239 | PD.6577 | A | #4 ACSR | 7.35Y | 122.5 | 0.01 | 2.47 | 5.24 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 1.946 | 0.049 | 16 | 4 | 2 | 4 |
| PL.56240 | PL.56239 | A | #4 ACSR | 7.35Y | 122.5 | 0.00 | 2.47 | 2.96 | 2 | 21 | 5 | 97 | 0.00 | 0.0 | 1.992 | 0.045 | 8 | 2 | 1 | 2 |
| PL.56747 | PL.56240 | A | 1/0 AL URD | 7.35Y | 122.5 | 0.00 | 2.47 | 1.79 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 2.076 | 0.084 | 13 | 3 | 1 | 1 |
| PL.56696 | PL.56242 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.47 | 4.62 | 3 | 33 | 9 | 96 | 0.00 | 0.0 | 1.956 | 0.064 | 8 | 2 | 1 | 10 |
| PL.56697 | PL.56696 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.48 | 3.51 | 3 | 25 | 7 | 96 | 0.00 | 0.0 | 2.013 | 0.057 | 2 | 1 | 1 | 9 |
| PL.56695 | PL.56697 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.48 | 3.19 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 2.039 | 0.026 | 4 | 1 | 2 | 8 |
| PL.56694 | PL.56695 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.49 | 2.66 | 2 | 19 | 5 | 97 | 0.00 | 0.0 | 2.084 | 0.045 | 0 | 0 | 0 | 6 |
| PL.42625 | PL.56694 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.49 | 0.60 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 2.130 | 0.045 | 3 | 1 | 3 | 4 |
| PL.56397 | PL.42625 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.49 | 0.21 | 0 | 2 | 0 | 100 | 0.00 | 0.0 | 2.218 | 0.088 | 2 | 0 | 1 | 1 |
| P PL.56398 | PL.56397 | A | 6 A (CWC) | 7.35Y | 122.5 | -0.00 | 2.49 | -0.01 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.261 | 0.043 | 0 | 0 | 0 | 0 P |
| P PL.56399 | PL.56398 | A | 1/0 AL URD | 7.35Y | 122.5 | 0.00 | 2.49 | -0.01 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.282 | 0.020 | 0 | 0 | 0 | 0 P |
| PL.56692 | PL.56694 | A | #2 ACSR | 7.35Y | 122.5 | 0.00 | 2.49 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.130 | 0.045 | 0 | 0 | 0 | 0 |
| PL.56693 | PL.56694 | A | #4 ACSR | 7.35Y | 122.5 | 0.00 | 2.49 | 2.06 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 2.138 | 0.054 | 0 | 0 | 0 | 2 |
| PL.56704 | PL.56693 | A | #2 ACSR | 7.35Y | 122.5 | 0.00 | 2.49 | 2.06 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 2.155 | 0.017 | 15 | 4 | 2 | 2 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.41455 | PL.56242 | A | #4 ACSR | 7.35Y | 122.5 | 0.00 | 2.46 | 0.25 | 0 | 2 | 0 | 100 | 0.00 | 0.0 | 1.936 | 0.044 | 2 | 0 | 2 | 2 |
| PL.56051 | PL.41772 | C | #4 ACSR | 7.37Y | 122.8 | 0.00 | 2.22 | 0.24 | 0 | 2 | 0 | 100 | 0.00 | 0.0 | 1.482 | 0.039 | 2 | 0 | 1 | 1 |
| PL.58195 | PL.41772 | B | 6 A (CWC) | 7.37Y | 122.8 | 0.00 | 2.22 | 20.19 | 14 | 144 | 39 | 97 | 0.00 | 0.0 | 1.445 | 0.003 | 0 | 0 | 0 | 24 |
| PL.58196 | PL.58195 | B | 6 A (CWC) | 7.36Y | 122.7 | 0.10 | 2.32 | 20.19 | 14 | 144 | 39 | 97 | 0.10 | 0.1 | 1.549 | 0.104 | 0 | 0 | 0 | 24 |
| PL.42639 | PL.58196 | B | 6 A (CWC) | 7.36Y | 122.7 | 0.03 | 2.35 | 18.12 | 13 | 129 | 35 | 97 | 0.03 | 0.0 | 1.584 | 0.034 | 11 | 3 | 1 | 23 |
| PL.64119 | PL.42639 | B | 6 A (CWC) | 7.36Y | 122.7 | 0.00 | 2.35 | 16.59 | 12 | 118 | 32 | 97 | 0.00 | 0.0 | 1.588 | 0.004 | 0 | 0 | 0 | 22 |
| PD.9528 | PL.64119 | B | 40T | 7.36Y | 122.7 | 0.00 | 2.35 | 16.59 | 0 | 118 | 32 | 97 | 0.00 | 0.0 | 1.588 | 0.004 | 0 | 0 | 0 | 22 |
| PL.64120 | PD.9528 | B | 6 A (CWC) | 7.36Y | 122.6 | 0.01 | 2.36 | 16.59 | 12 | 118 | 32 | 97 | 0.01 | 0.0 | 1.604 | 0.017 | 10 | 3 | 2 | 22 |
| PL.42640 | PL.64120 | B | 6 A (CWC) | 7.35Y | 122.6 | 0.06 | 2.42 | 15.17 | 11 | 108 | 29 | 97 | 0.04 | 0.0 | 1.690 | 0.086 | 10 | 3 | 2 | 20 |
| PL.41739 | PL.42640 | B | #2 ACSR | 7.35Y | 122.6 | 0.00 | 2.42 | 1.24 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 1.745 | 0.055 | 9 | 2 | 1 | 1 |
| PL.42641 | PL.42640 | B | 6 A (CWC) | 7.35Y | 122.5 | 0.03 | 2.45 | 12.53 | 9 | 89 | 24 | 97 | 0.02 | 0.0 | 1.752 | 0.061 | 11 | 3 | 1 | 17 |
| PL.42642 | PL.42641 | B | 6 A (CWC) | 7.35Y | 122.5 | 0.04 | 2.49 | 11.00 | 8 | 78 | 21 | 97 | 0.02 | 0.0 | 1.826 | 0.074 | 3 | 1 | 1 | 16 |
| PL.42643 | PL.42642 | B | 6 A (CWC) | 7.35Y | 122.5 | 0.04 | 2.52 | 10.62 | 8 | 75 | 20 | 97 | 0.02 | 0.0 | 1.905 | 0.079 | 12 | 3 | 2 | 15 |
| PL.41020 | PL.42643 | B | #4 ACSR | 7.35Y | 122.5 | 0.00 | 2.53 | 1.10 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 1.968 | 0.062 | 8 | 2 | 1 | 1 |
| PL.42644 | PL.42643 | B | 6 A (CWC) | 7.35Y | 122.4 | 0.05 | 2.57 | 7.89 | 6 | 56 | 15 | 97 | 0.02 | 0.0 | 2.047 | 0.142 | 11 | 3 | 2 | 12 |
| PL.42645 | PL.42644 | B | 6 A (CWC) | 7.34Y | 122.4 | 0.02 | 2.59 | 5.27 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 2.118 | 0.071 | 0 | 0 | 0 | 8 |
| PL.41453 | PL.42645 | B | #4 ACSR | 7.34Y | 122.4 | 0.00 | 2.59 | 0.68 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 2.159 | 0.040 | 5 | 1 | 2 | 2 |
| PL.42646 | PL.42645 | B | 6 A (CWC) | 7.34Y | 122.4 | 0.01 | 2.60 | 4.60 | 3 | 33 | 9 | 96 | 0.00 | 0.0 | 2.158 | 0.039 | 0 | 0 | 0 | 6 |
| PL.41561 | PL.42646 | B | #1/0 ACSR | 7.34Y | 122.4 | 0.00 | 2.60 | 1.30 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.200 | 0.043 | 9 | 2 | 1 | 1 |
| PL.42647 | PL.42646 | B | 6 A (CWC) | 7.34Y | 122.4 | 0.00 | 2.60 | 3.30 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 2.181 | 0.023 | 0 | 0 | 0 | 5 |
| PL.41464 | PL.42647 | B | #4 ACSR | 7.34Y | 122.4 | 0.00 | 2.60 | 0.01 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.216 | 0.035 | 0 | 0 | 2 | 2 |
| PL.42648 | PL.42647 | B | 6 A (CWC) | 7.34Y | 122.4 | 0.01 | 2.60 | 3.29 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 2.223 | 0.042 | 8 | 2 | 1 | 3 |
| PL.42649 | PL.42648 | B | 6 A (CWC) | 7.34Y | 122.4 | 0.00 | 2.61 | 0.82 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 2.358 | 0.135 | 6 | 2 | 1 | 1 |
| PL.41701 | PL.42648 | B | #4 ACSR | 7.34Y | 122.4 | 0.00 | 2.61 | 1.41 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 2.266 | 0.043 | 10 | 3 | 1 | 1 |
| PL.41495 | PL.42644 | B | #4 ACSR | 7.35Y | 122.4 | 0.00 | 2.57 | 1.10 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 2.112 | 0.064 | 8 | 2 | 2 | 2 |
| PL.41497 | PL.58196 | B | #2 ACSR | 7.36Y | 122.7 | 0.00 | 2.32 | 2.07 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 1.592 | 0.042 | 15 | 4 | 1 | 1 |
| PL.41510 | PL.41509 | ABC | 336 MCM AC | 7.37Y | 122.9 | 0.06 | 2.14 | 179.45 | 35 | 3782 | 1209 | 95 | 1.17 | 0.0 | 1.157 | 0.043 | 2 | 1 | 2 | 595 |
| PL.41511 | PL.41510 | B | #4 ACSR | 7.37Y | 122.9 | 0.00 | 2.14 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.162 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6785 | PL.41511 | B | 60QA | 7.37Y | 122.9 | 0.00 | 2.14 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.162 | 0.006 | 0 | 0 | 0 | 0 |
| PL.41512 | PD.6785 | B | #4 ACSR | 7.37Y | 122.9 | 0.00 | 2.14 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.202 | 0.040 | 0 | 0 | 0 | 0 |
| PL.41513 | PL.41510 | ABC | 336 MCM AC | 7.36Y | 122.7 | 0.12 | 2.27 | 179.34 | 35 | 3778 | 1206 | 95 | 2.39 | 0.1 | 1.245 | 0.088 | 0 | 0 | 0 | 593 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.66130 | PL.41513 | ABC | 336 MCM AC | 7.36Y | 122.7 | 0.06 | 2.32 | 179.34 | 35 | 3776 | 1200 | 95 | 1.07 | 0.0 | 1.284 | 0.040 | 0 | 0 | 0 | 593 |
| PL.66131 | PL.66130 | ABC | 336 MCM AC | 7.36Y | 122.6 | 0.04 | 2.36 | 179.13 | 35 | 3770 | 1196 | 95 | 0.82 | 0.0 | 1.314 | 0.030 | 0 | 0 | 0 | 592 |
| PL.42021 | PL.66131 | ABC | 336 MCM AC | 7.35Y | 122.6 | 0.07 | 2.44 | 178.57 | 34 | 3758 | 1191 | 95 | 1.43 | 0.0 | 1.368 | 0.053 | 8 | 2 | 1 | 591 |
| PL.42022 | PL.42021 | ABC | 336 MCM AC | 7.35Y | 122.5 | 0.05 | 2.48 | 178.19 | 34 | 3748 | 1186 | 95 | 0.89 | 0.0 | 1.401 | 0.033 | 0 | 0 | 0 | 590 |
| PL.42023 | PL.42022 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.48 | 2.14 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 1.407 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6463 | PL.42023 | C | 60QA | 7.35Y | 122.5 | 0.00 | 2.48 | 2.14 | 4 | 15 | 4 | 97 | 0.00 | 0.0 | 1.407 | 0.006 | 0 | 0 | 0 | 3 |
| PL.42024 | PD.6463 | C | #2 ACSR | 7.35Y | 122.5 | 0.00 | 2.49 | 2.14 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 1.461 | 0.054 | 5 | 1 | 1 | 3 |
| PL.51982 | PL.42024 | C | #2 ACSR | 7.35Y | 122.5 | 0.00 | 2.49 | 1.38 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 1.547 | 0.086 | 10 | 3 | 2 | 2 |
| PL.42025 | PL.42022 | ABC | 336 MCM AC | 7.35Y | 122.4 | 0.09 | 2.57 | 177.47 | 34 | 3732 | 1180 | 95 | 1.69 | 0.0 | 1.465 | 0.064 | 6 | 2 | 1 | 587 |
| PL.42026 | PL.42025 | ABC | 336 MCM AC | 7.34Y | 122.3 | 0.16 | 2.73 | 177.19 | 34 | 3724 | 1174 | 95 | 3.06 | 0.1 | 1.581 | 0.116 | 0 | 0 | 0 | 586 |
| PL.42027 | PL.42026 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.01 | 2.74 | 32.74 | 23 | 232 | 62 | 97 | 0.01 | 0.0 | 1.586 | 0.006 | 0 | 0 | 0 | 35 |
| PD.6786 | PL.42027 | C | 60QA | 7.34Y | 122.3 | 0.00 | 2.74 | 32.74 | 55 | 232 | 62 | 97 | 0.00 | 0.0 | 1.586 | 0.006 | 0 | 0 | 0 | 35 |
| PL.42028 | PD.6786 | C | 6 A (CWC) | 7.33Y | 122.1 | 0.15 | 2.89 | 32.74 | 23 | 232 | 62 | 97 | 0.26 | 0.1 | 1.693 | 0.106 | 13 | 4 | 2 | 35 |
| PL.42029 | PL.42028 | C | 6 A (CWC) | 7.33Y | 122.1 | 0.01 | 2.90 | 8.59 | 6 | 61 | 16 | 97 | 0.00 | 0.0 | 1.711 | 0.019 | 5 | 1 | 2 | 12 |
| PL.42271 | PL.42029 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.90 | 1.81 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 1.735 | 0.024 | 13 | 3 | 2 | 4 |
| PL.42272 | PL.42271 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.90 | 0.01 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.778 | 0.042 | 0 | 0 | 2 | 2 |
| PL.42273 | PL.42029 | C | 6 A (CWC) | 7.33Y | 122.1 | 0.01 | 2.91 | 6.04 | 4 | 43 | 11 | 97 | 0.00 | 0.0 | 1.774 | 0.062 | 12 | 3 | 1 | 6 |
| PL.59277 | PL.42273 | C | 6 A (CWC) | 7.32Y | 122.1 | 0.01 | 2.92 | 4.40 | 3 | 31 | 8 | 97 | 0.00 | 0.0 | 1.817 | 0.043 | 17 | 5 | 4 | 5 |
| PL.59278 | PL.59277 | C | 6 A (CWC) | 7.32Y | 122.1 | 0.00 | 2.92 | 1.95 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 1.872 | 0.055 | 14 | 4 | 1 | 1 |
| PL.42274 | PL.42028 | C | 6 A (CWC) | 7.32Y | 122.1 | 0.03 | 2.92 | 22.26 | 16 | 158 | 42 | 97 | 0.04 | 0.0 | 1.726 | 0.033 | 12 | 3 | 1 | 21 |
| PL.42275 | PL.42274 | C | 6 A (CWC) | 7.32Y | 122.0 | 0.04 | 2.97 | 20.53 | 15 | 145 | 39 | 97 | 0.05 | 0.0 | 1.771 | 0.046 | 0 | 0 | 0 | 20 |
| PL.59274 | PL.42275 | C | 6 A (CWC) | 7.32Y | 122.0 | 0.03 | 3.00 | 16.23 | 12 | 115 | 31 | 97 | 0.02 | 0.0 | 1.816 | 0.044 | 31 | 8 | 4 | 15 |
| PL.59275 | PL.59274 | C | 6 A (CWC) | 7.32Y | 122.0 | 0.03 | 3.03 | 11.80 | 8 | 83 | 22 | 97 | 0.02 | 0.0 | 1.884 | 0.068 | 10 | 3 | 1 | 11 |
| PL.42277 | PL.59275 | C | 6 A (CWC) | 7.32Y | 121.9 | 0.02 | 3.05 | 10.38 | 7 | 73 | 20 | 96 | 0.01 | 0.0 | 1.940 | 0.056 | 19 | 5 | 4 | 10 |
| PL.42278 | PL.42277 | C | 6 A (CWC) | 7.32Y | 121.9 | 0.01 | 3.07 | 6.69 | 5 | 47 | 13 | 96 | 0.00 | 0.0 | 1.997 | 0.057 | 21 | 6 | 3 | 5 |
| PL.57589 | PL.42278 | C | 6 A (CWC) | 7.32Y | 121.9 | 0.01 | 3.07 | 3.77 | 3 | 27 | 7 | 97 | 0.00 | 0.0 | 2.031 | 0.034 | 0 | 0 | 0 | 2 |
| PL.57590 | PL.57589 | C | 6 A (CWC) | 7.32Y | 121.9 | 0.00 | 3.08 | 1.76 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 2.110 | 0.079 | 12 | 3 | 1 | 1 |
| PL.57591 | PL.57589 | C | 6 A (CWC) | 7.32Y | 121.9 | 0.00 | 3.08 | 2.01 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 2.082 | 0.051 | 14 | 4 | 1 | 1 |
| PL.62030 | PL.42277 | C | 6 A (CWC) | 7.32Y | 121.9 | 0.00 | 3.05 | 0.96 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 1.975 | 0.035 | 7 | 2 | 1 | 1 |
| PL.42276 | PL.42275 | C | #2 ACSR | 7.32Y | 122.0 | 0.01 | 2.97 | 4.30 | 2 | 30 | 8 | 97 | 0.00 | 0.0 | 1.826 | 0.055 | 0 | 0 | 2 | 5 |
| PL.57937 | PL.42276 | C | #2 ACSR | 7.32Y | 122.0 | 0.01 | 2.98 | 4.29 | 2 | 30 | 8 | 97 | 0.00 | 0.0 | 1.871 | 0.045 | 7 | 2 | 1 | 3 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.57938 | PL.57937 | C | #2 ACSR | 7.32Y | 122.0 | 0.00 | 2.98 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.917 | 0.046 | 0 | 0 | 0 | 0 |
| PL.61166 | PL.57937 | C | #1/0 ACSR | 7.32Y | 122.0 | 0.00 | 2.98 | 3.27 | 1 | 23 | 6 | 97 | 0.00 | 0.0 | 1.894 | 0.023 | 23 | 6 | 2 | 2 |
| PL.42279 | PL.42026 | ABC | 336 MCM AC | 7.33Y | 122.2 | 0.06 | 2.79 | 166.29 | 32 | 3489 | 1105 | 95 | 1.01 | 0.0 | 1.624 | 0.043 | 11 | 3 | 1 | 551 |
| PL.59381 | PL.42279 | ABC | 336 MCM AC | 7.33Y | 122.1 | 0.11 | 2.90 | 165.77 | 32 | 3477 | 1099 | 95 | 1.99 | 0.1 | 1.710 | 0.086 | 15 | 4 | 1 | 550 |
| PL.63237 | PL.59381 | A | #1/0 ACSR | 7.33Y | 122.1 | 0.00 | 2.90 | 0.98 | 0 | 7 | 2 | 96 | 0.00 | 0.0 | 1.714 | 0.003 | 0 | 0 | 0 | 1 |
| PD.9475 | PL.63237 | A | 20T | 7.33Y | 122.1 | 0.00 | 2.90 | 0.98 | 0 | 7 | 2 | 96 | 0.00 | 0.0 | 1.714 | 0.003 | 0 | 0 | 0 | 1 |
| PL.63238 | PD.9475 | A | #1/0 ACSR | 7.33Y | 122.1 | 0.00 | 2.90 | 0.98 | 0 | 7 | 2 | 96 | 0.00 | 0.0 | 1.745 | 0.031 | 7 | 2 | 1 | 1 |
| PL.59382 | PL.59381 | ABC | 336 MCM AC | 7.32Y | 122.0 | 0.08 | 2.98 | 164.74 | 32 | 3453 | 1089 | 95 | 1.46 | 0.0 | 1.774 | 0.064 | 0 | 0 | 0 | 548 |
| PL.42281 | PL.59382 | ABC | 336 MCM AC | 7.32Y | 122.0 | 0.05 | 3.03 | 162.51 | 31 | 3404 | 1073 | 95 | 0.93 | 0.0 | 1.816 | 0.042 | 7 | 2 | 2 | 543 |
| PL.42282 | PL.42281 | ABC | 336 MCM AC | 7.31Y | 121.9 | 0.08 | 3.11 | 162.19 | 31 | 3397 | 1069 | 95 | 1.44 | 0.0 | 1.881 | 0.065 | 0 | 0 | 0 | 541 |
| PL.42283 | PL.42282 | C | #4 ACSR | 7.31Y | 121.9 | 0.00 | 3.11 | 0.73 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 1.887 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6396 | PL.42283 | C | 60QA | 7.31Y | 121.9 | 0.00 | 3.11 | 0.73 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 1.887 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42284 | PD.6396 | C | #4 ACSR | 7.31Y | 121.9 | 0.00 | 3.11 | 0.73 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 1.968 | 0.081 | 5 | 1 | 2 | 2 |
| PL.42285 | PL.42282 | ABC | 336 MCM AC | 7.31Y | 121.8 | 0.04 | 3.15 | 161.95 | 31 | 3390 | 1064 | 95 | 0.69 | 0.0 | 1.912 | 0.031 | 6 | 2 | 1 | 539 |
| PL.42288 | PL.42285 | ABC | 336 MCM AC | 7.31Y | 121.8 | 0.06 | 3.21 | 161.65 | 31 | 3383 | 1061 | 95 | 1.02 | 0.0 | 1.959 | 0.046 | 4 | 1 | 1 | 538 |
| PL.42289 | PL.42288 | ABC | 336 MCM AC | 7.30Y | 121.7 | 0.08 | 3.29 | 161.48 | 31 | 3378 | 1058 | 95 | 1.36 | 0.0 | 2.021 | 0.062 | 0 | 0 | 0 | 537 |
| PL.42290 | PL.42289 | C | #4 ACSR | 7.30Y | 121.7 | 0.00 | 3.29 | 1.21 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.026 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6657 | PL.42290 | C | 60QA | 7.30Y | 121.7 | 0.00 | 3.29 | 1.21 | 2 | 9 | 2 | 98 | 0.00 | 0.0 | 2.026 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42291 | PD.6657 | C | #4 ACSR | 7.30Y | 121.7 | 0.00 | 3.29 | 1.21 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.039 | 0.012 | 9 | 2 | 1 | 1 |
| PL.42292 | PL.42289 | ABC | 336 MCM AC | 7.30Y | 121.7 | 0.06 | 3.34 | 161.07 | 31 | 3368 | 1052 | 95 | 0.98 | 0.0 | 2.065 | 0.045 | 0 | 0 | 1 | 536 |
| PL.42293 | PL.42292 | ABC | 336 MCM AC | 7.30Y | 121.6 | 0.07 | 3.41 | 161.07 | 31 | 3367 | 1050 | 95 | 1.24 | 0.0 | 2.122 | 0.057 | 7 | 2 | 1 | 535 |
| PL.42294 | PL.42293 | ABC | 336 MCM AC | 7.29Y | 121.4 | 0.16 | 3.57 | 160.76 | 31 | 3360 | 1045 | 95 | 2.76 | 0.1 | 2.249 | 0.127 | 0 | 0 | 0 | 534 |
| PL.42297 | PL.42294 | ABC | 336 MCM AC | 7.28Y | 121.3 | 0.16 | 3.73 | 160.64 | 31 | 3354 | 1038 | 96 | 2.80 | 0.1 | 2.378 | 0.129 | 18 | 5 | 4 | 532 |
| PL.42298 | PL.42297 | ABC | 336 MCM AC | 7.27Y | 121.2 | 0.09 | 3.82 | 159.78 | 31 | 3333 | 1027 | 96 | 1.55 | 0.0 | 2.450 | 0.072 | 8 | 2 | 1 | 528 |
| PL.41293 | PL.42298 | A | 6 A (CWC) | 7.27Y | 121.2 | 0.00 | 3.82 | 0.24 | 0 | 2 | 0 | 100 | 0.00 | 0.0 | 2.494 | 0.044 | 2 | 0 | 1 | 1 |
| PL.42299 | PL.42298 | ABC | 336 MCM AC | 7.27Y | 121.1 | 0.08 | 3.90 | 159.31 | 31 | 3322 | 1020 | 96 | 1.41 | 0.0 | 2.517 | 0.066 | 9 | 2 | 3 | 526 |
| PL.42300 | PL.42299 | A | 6 A (CWC) | 7.27Y | 121.1 | 0.00 | 3.90 | 1.24 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.522 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6465 | PL.42300 | A | 60QA | 7.27Y | 121.1 | 0.00 | 3.90 | 1.24 | 2 | 9 | 2 | 98 | 0.00 | 0.0 | 2.522 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42301 | PD.6465 | A | 6 A (CWC) | 7.27Y | 121.1 | 0.00 | 3.90 | 1.24 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 2.555 | 0.033 | 9 | 2 | 1 | 1 |
| PL.59355 | PL.42299 | ABC | 336 MCM AC | 7.26Y | 121.0 | 0.06 | 3.96 | 158.48 | 31 | 3303 | 1012 | 96 | 0.99 | 0.0 | 2.564 | 0.047 | 46 | 12 | 5 | 522 |
| PL.59356 | PL.59355 | ABC | 336 MCM AC | 7.26Y | 121.0 | 0.06 | 4.02 | 156.29 | 30 | 3256 | 998 | 96 | 1.04 | 0.0 | 2.615 | 0.051 | 12 | 3 | 2 | 517 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.42302 | PL.59356 | A | #4 ACSR | 7.26Y | 121.0 | 0.00 | 4.02 | 17.91 | 14 | 126 | 34 | 97 | 0.00 | 0.0 | 2.620 | 0.006 | 0 | 0 | 0 | 16 |
| PD.6397 | PL.42302 | A | 30T | 7.26Y | 121.0 | 0.00 | 4.02 | 17.91 | 0 | 126 | 34 | 97 | 0.00 | 0.0 | 2.620 | 0.006 | 0 | 0 | 0 | 16 |
| PL.66261 | PD.6397 | A | #4 ACSR | 7.26Y | 121.0 | 0.03 | 4.05 | 17.91 | 14 | 126 | 34 | 97 | 0.02 | 0.0 | 2.653 | 0.033 | 3 | 1 | 1 | 16 |
| PL.66262 | PL.66261 | A | #4 ACSR | 7.26Y | 120.9 | 0.02 | 4.07 | 17.48 | 13 | 123 | 33 | 97 | 0.02 | 0.0 | 2.682 | 0.029 | 16 | 4 | 2 | 15 |
| PL.57584 | PL.66262 | A | #4 ACSR | 7.26Y | 120.9 | 0.01 | 4.07 | 5.44 | 4 | 38 | 10 | 97 | 0.00 | 0.0 | 2.723 | 0.041 | 27 | 7 | 3 | 5 |
| PL.57585 | PL.57584 | A | #4 ACSR | 7.26Y | 120.9 | 0.00 | 4.07 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.764 | 0.041 | 0 | 0 | 0 | 0 |
| PL.57583 | PL.57584 | A | #4 ACSR | 7.26Y | 120.9 | 0.00 | 4.07 | 1.57 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 2.761 | 0.038 | 11 | 3 | 2 | 2 |
| PL.42304 | PL.66262 | A | #4 ACSR | 7.25Y | 120.9 | 0.03 | 4.10 | 9.77 | 8 | 68 | 18 | 97 | 0.02 | 0.0 | 2.767 | 0.085 | 13 | 3 | 1 | 8 |
| PL.57600 | PL.42304 | A | #4 ACSR | 7.25Y | 120.9 | 0.00 | 4.10 | 0.49 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 2.815 | 0.049 | 3 | 1 | 1 | 1 |
| PL.42305 | PL.42304 | A | #4 ACSR | 7.25Y | 120.9 | 0.01 | 4.11 | 7.45 | 6 | 52 | 14 | 97 | 0.00 | 0.0 | 2.821 | 0.054 | 25 | 7 | 3 | 6 |
| PL.42306 | PL.42305 | A | #4 ACSR | 7.25Y | 120.9 | 0.02 | 4.13 | 3.94 | 3 | 28 | 7 | 97 | 0.00 | 0.0 | 2.941 | 0.120 | 8 | 2 | 1 | 3 |
| PL.42307 | PL.42306 | A | #4 ACSR | 7.25Y | 120.9 | 0.00 | 4.14 | 2.83 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 3.003 | 0.062 | 20 | 5 | 2 | 2 |
| PL.41787 | PL.59356 | ABC | 336 MCM AC | 7.26Y | 120.9 | 0.05 | 4.06 | 149.75 | 29 | 3117 | 958 | 96 | 0.74 | 0.0 | 2.654 | 0.039 | 0 | 0 | 0 | 499 |
| PL.41788 | PL.41787 | ABC | 336 MCM AC | 7.25Y | 120.9 | 0.04 | 4.10 | 149.75 | 29 | 3116 | 957 | 96 | 0.65 | 0.0 | 2.688 | 0.034 | 2 | 1 | 2 | 499 |
| PL.59345 | PL.41788 | ABC | 336 MCM AC | 7.25Y | 120.9 | 0.03 | 4.13 | 149.65 | 29 | 3114 | 955 | 96 | 0.55 | 0.0 | 2.717 | 0.029 | 13 | 4 | 3 | 497 |
| PL.59346 | PL.59345 | ABC | 336 MCM AC | 7.25Y | 120.8 | 0.05 | 4.18 | 149.02 | 29 | 3100 | 950 | 96 | 0.78 | 0.0 | 2.759 | 0.042 | 0 | 0 | 0 | 494 |
| PL.42221 | PL.59346 | ABC | 336 MCM AC | 7.25Y | 120.8 | 0.03 | 4.22 | 149.02 | 29 | 3099 | 948 | 96 | 0.57 | 0.0 | 2.789 | 0.030 | 0 | 0 | 0 | 494 |
| PL.62809 | PL.42221 | ABC | 336 MCM AC | 7.24Y | 120.6 | 0.14 | 4.36 | 149.02 | 29 | 3098 | 947 | 96 | 2.29 | 0.1 | 2.912 | 0.122 | 1 | 0 | 1 | 494 |
| PL.62812 | PL.62809 | B | #4 ACSR | 7.24Y | 120.6 | 0.00 | 4.36 | 12.55 | 10 | 88 | 23 | 97 | 0.00 | 0.0 | 2.915 | 0.004 | 0 | 0 | 0 | 14 |
| PD.9451 | PL.62812 | B | 40T | 7.24Y | 120.6 | 0.00 | 4.36 | 12.55 | 0 | 88 | 23 | 97 | 0.00 | 0.0 | 2.915 | 0.004 | 0 | 0 | 0 | 14 |
| PL.58930 | PD.9451 | B | #4 ACSR | 7.24Y | 120.6 | 0.02 | 4.38 | 12.55 | 10 | 88 | 23 | 97 | 0.01 | 0.0 | 2.948 | 0.033 | 0 | 0 | 0 | 14 |
| PL.64687 | PL.58930 | B | #4 ACSR | 7.24Y | 120.6 | 0.00 | 4.38 | 12.55 | 10 | 88 | 23 | 97 | 0.00 | 0.0 | 2.949 | 0.000 | 0 | 0 | 0 | 14 |
| PL.64688 | PL.64687 | B | #4 ACSR | 7.24Y | 120.6 | 0.02 | 4.40 | 12.55 | 10 | 88 | 23 | 97 | 0.01 | 0.0 | 2.986 | 0.038 | 4 | 1 | 1 | 14 |
| PL.41656 | PL.64688 | B | #4 ACSR | 7.23Y | 120.6 | 0.03 | 4.43 | 11.94 | 9 | 83 | 22 | 97 | 0.02 | 0.0 | 3.050 | 0.064 | 21 | 6 | 2 | 13 |
| PL.42308 | PL.41656 | B | #4 ACSR | 7.23Y | 120.6 | 0.02 | 4.45 | 8.99 | 7 | 63 | 17 | 97 | 0.01 | 0.0 | 3.113 | 0.063 | 26 | 7 | 3 | 11 |
| PL.42309 | PL.42308 | B | #4 ACSR | 7.23Y | 120.5 | 0.01 | 4.45 | 5.32 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 3.150 | 0.037 | 9 | 2 | 1 | 8 |
| PL.42310 | PL.42309 | B | #4 ACSR | 7.23Y | 120.5 | 0.00 | 4.46 | 3.99 | 3 | 28 | 7 | 97 | 0.00 | 0.0 | 3.166 | 0.016 | 6 | 2 | 1 | 7 |
| PL.42311 | PL.42310 | B | #4 ACSR | 7.23Y | 120.5 | 0.00 | 4.46 | 3.13 | 2 | 22 | 6 | 96 | 0.00 | 0.0 | 3.182 | 0.016 | 11 | 3 | 1 | 6 |
| PL.42312 | PL.42311 | B | #4 ACSR | 7.23Y | 120.5 | 0.00 | 4.46 | 1.59 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 3.199 | 0.017 | 11 | 3 | 3 | 5 |
| PL.42313 | PL.42312 | B | #4 ACSR | 7.23Y | 120.5 | 0.00 | 4.46 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.248 | 0.049 | 0 | 0 | 2 | 2 |
| PL.62811 | PL.62809 | ABC | 336 MCM AC | 7.23Y | 120.6 | 0.07 | 4.42 | 144.79 | 28 | 3007 | 918 | 96 | 1.08 | 0.0 | 2.973 | 0.061 | 0 | 0 | 0 | 479 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42315 | PL.62811 | A | 6 A (CWC) | 7.23Y | 120.6 | 0.00 | 4.42 | 3.35 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 2.979 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6398 | PL.42315 | A | 60QA | 7.23Y | 120.6 | 0.00 | 4.42 | 3.35 | 6 | 23 | 6 | 97 | 0.00 | 0.0 | 2.979 | 0.006 | 0 | 0 | 0 | 2 |
| PL.59128 | PD.6398 | A | 6 A (CWC) | 7.23Y | 120.6 | 0.01 | 4.43 | 3.35 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 3.013 | 0.035 | 0 | 0 | 0 | 2 |
| PL.59129 | PL.59128 | A | 6 A (CWC) | 7.23Y | 120.6 | 0.01 | 4.44 | 3.35 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 3.105 | 0.091 | 23 | 6 | 2 | 2 |
| PL.42314 | PL.62811 | ABC | 336 MCM AC | 7.22Y | 120.3 | 0.24 | 4.67 | 143.68 | 28 | 2983 | 909 | 96 | 3.82 | 0.1 | 3.193 | 0.220 | 0 | 0 | 0 | 477 |
| PL.42316 | PL.42314 | C | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.67 | 1.35 | 1 | 9 | 3 | 95 | 0.00 | 0.0 | 3.198 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6399 | PL.42316 | C | 60QA | 7.22Y | 120.3 | 0.00 | 4.67 | 1.35 | 2 | 9 | 3 | 95 | 0.00 | 0.0 | 3.198 | 0.006 | 0 | 0 | 0 | 3 |
| PL.42317 | PD.6399 | C | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.67 | 1.35 | 1 | 9 | 3 | 95 | 0.00 | 0.0 | 3.238 | 0.039 | 0 | 0 | 0 | 3 |
| PL.41756 | PL.42317 | C | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.67 | 1.35 | 1 | 9 | 3 | 95 | 0.00 | 0.0 | 3.299 | 0.061 | 9 | 2 | 1 | 3 |
| PL.41544 | PL.41756 | C | #4 ACSR | 7.22Y | 120.3 | 0.00 | 4.67 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.351 | 0.052 | 0 | 0 | 0 | 0 |
| PL.41466 | PL.41756 | C | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.67 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.345 | 0.046 | 0 | 0 | 1 | 1 |
| PL.41394 | PL.41756 | C | 6 A (CWC) | 7.22Y | 120.3 | 0.00 | 4.67 | 0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.360 | 0.061 | 0 | 0 | 0 | 1 |
| PL.64795 | PL.41394 | C | #1/0 ACSR | 7.22Y | 120.3 | 0.00 | 4.67 | 0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.399 | 0.040 | 0 | 0 | 1 | 1 |
| PL.41467 | PL.41467 | A | 6 A (CWC) | 7.22Y | 120.3 | 0.01 | 4.67 | 28.38 | 20 | 198 | 53 | 97 | 0.01 | 0.0 | 3.198 | 0.006 | 0 | 0 | 0 | 30 |
| PD.6791 | PL.41467 | A | 50L | 7.22Y | 120.3 | 0.00 | 4.67 | 28.38 | 57 | 198 | 53 | 97 | 0.00 | 0.0 | 3.198 | 0.006 | 0 | 0 | 0 | 30 |
| PL.56043 | PD.6791 | A | 6 A (CWC) | 7.21Y | 120.2 | 0.12 | 4.79 | 28.38 | 20 | 198 | 53 | 97 | 0.17 | 0.1 | 3.293 | 0.095 | 22 | 6 | 3 | 30 |
| PL.56044 | PL.56043 | A | 6 A (CWC) | 7.21Y | 120.1 | 0.08 | 4.86 | 25.27 | 18 | 176 | 47 | 97 | 0.10 | 0.1 | 3.359 | 0.066 | 0 | 0 | 0 | 27 |
| PL.56049 | PL.56044 | A | 6 A (CWC) | 7.20Y | 120.1 | 0.05 | 4.92 | 16.65 | 12 | 116 | 31 | 97 | 0.05 | 0.0 | 3.434 | 0.075 | 12 | 3 | 2 | 20 |
| PL.56050 | PL.56049 | A | 6 A (CWC) | 7.20Y | 120.0 | 0.06 | 4.98 | 14.88 | 11 | 104 | 28 | 97 | 0.04 | 0.0 | 3.520 | 0.087 | 7 | 2 | 2 | 18 |
| PL.41309 | PL.56050 | A | 6 A (CWC) | 7.20Y | 120.0 | 0.00 | 4.98 | 0.84 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 3.581 | 0.060 | 6 | 2 | 1 | 1 |
| PL.41471 | PL.56050 | A | 6 A (CWC) | 7.20Y | 119.9 | 0.10 | 5.07 | 13.10 | 9 | 91 | 24 | 97 | 0.07 | 0.1 | 3.680 | 0.160 | 0 | 0 | 0 | 15 |
| PL.41472 | PL.41471 | A | 6 A (CWC) | 7.19Y | 119.9 | 0.03 | 5.10 | 10.15 | 7 | 71 | 19 | 97 | 0.01 | 0.0 | 3.742 | 0.062 | 4 | 1 | 1 | 11 |
| PL.41473 | PL.41472 | A | 6 A (CWC) | 7.19Y | 119.9 | 0.02 | 5.12 | 9.57 | 7 | 67 | 18 | 97 | 0.01 | 0.0 | 3.793 | 0.051 | 4 | 1 | 1 | 10 |
| PL.61164 | PL.41473 | A | 6 A (CWC) | 7.19Y | 119.9 | 0.01 | 5.13 | 8.94 | 6 | 62 | 17 | 96 | 0.01 | 0.0 | 3.833 | 0.040 | 24 | 6 | 3 | 9 |
| PL.61165 | PL.61164 | A | 6 A (CWC) | 7.19Y | 119.9 | 0.01 | 5.15 | 5.47 | 4 | 38 | 10 | 97 | 0.00 | 0.0 | 3.907 | 0.074 | 19 | 5 | 2 | 6 |
| PL.41474 | PL.61165 | A | 6 A (CWC) | 7.19Y | 119.8 | 0.00 | 5.15 | 2.81 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 3.976 | 0.069 | 19 | 5 | 3 | 4 |
| PL.41475 | PL.41474 | A | 6 A (CWC) | 7.19Y | 119.8 | 0.00 | 5.15 | 0.10 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 4.034 | 0.058 | 0 | 0 | 0 | 1 |
| PL.41889 | PL.41475 | A | #2 ACSR | 7.19Y | 119.8 | 0.00 | 5.15 | 0.10 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 4.108 | 0.074 | 1 | 0 | 1 | 1 |
| PL.41478 | PL.41475 | A | 6 A (CWC) | 7.19Y | 119.8 | 0.00 | 5.15 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.084 | 0.050 | 0 | 0 | 0 | 0 |
| PL.61163 | PL.61164 | A | 6 A (CWC) | 7.19Y | 119.9 | 0.00 | 5.13 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.256 | 0.424 | 0 | 0 | 0 | 0 |
| PL.41414 | PL.41471 | A | 6 A (CWC) | 7.20Y | 119.9 | 0.01 | 5.08 | 2.95 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 3.761 | 0.080 | 20 | 5 | 4 | 4 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.58915 | PL.56044 | A | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.87 | 8.62 | 6 | 60 | 16 | 97 | 0.00 | 0.0 | 3.362 | 0.003 | 0 | 0 | 0 | 7 |
| PD.8488 | PL.58915 | A | 20T | 7.21Y | 120.1 | 0.00 | 4.87 | 8.62 | 0 | 60 | 16 | 97 | 0.00 | 0.0 | 3.362 | 0.003 | 0 | 0 | 0 | 7 |
| PL.58916 | PD.8488 | A | 6 A (CWC) | 7.21Y | 120.1 | 0.01 | 4.87 | 8.62 | 6 | 60 | 16 | 97 | 0.00 | 0.0 | 3.380 | 0.018 | 4 | 1 | 2 | 7 |
| PL.56048 | PL.58916 | A | 6 A (CWC) | 7.21Y | 120.1 | 0.03 | 4.90 | 8.00 | 6 | 56 | 15 | 97 | 0.01 | 0.0 | 3.473 | 0.093 | 17 | 5 | 2 | 5 |
| PL.41468 | PL.56048 | A | 6 A (CWC) | 7.20Y | 120.1 | 0.02 | 4.92 | 5.50 | 4 | 38 | 10 | 97 | 0.01 | 0.0 | 3.580 | 0.107 | 12 | 3 | 1 | 3 |
| PL.41469 | PL.41468 | A | 6 A (CWC) | 7.20Y | 120.1 | 0.00 | 4.93 | 3.79 | 3 | 26 | 7 | 97 | 0.00 | 0.0 | 3.607 | 0.027 | 26 | 7 | 2 | 2 |
| PL.41470 | PL.41469 | A | 6 A (CWC) | 7.20Y | 120.1 | 0.00 | 4.93 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.673 | 0.066 | 0 | 0 | 0 | 0 |
| PL.56045 | PL.42314 | ABC | 336 MCM AC | 7.22Y | 120.3 | 0.08 | 4.74 | 133.77 | 26 | 2772 | 844 | 96 | 1.15 | 0.0 | 3.269 | 0.076 | 12 | 3 | 1 | 444 |
| PL.56046 | PL.56045 | C | #4 ACSR | 7.22Y | 120.3 | 0.00 | 4.74 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.275 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6607 | PL.56046 | C | 60QA | 7.22Y | 120.3 | 0.00 | 4.74 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.275 | 0.006 | 0 | 0 | 0 | 0 |
| PL.41340 | PD.6607 | C | #4 ACSR | 7.22Y | 120.3 | 0.00 | 4.74 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.327 | 0.053 | 0 | 0 | 0 | 0 |
| PL.41341 | PL.41340 | C | #4 ACSR | 7.22Y | 120.3 | 0.00 | 4.74 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.399 | 0.071 | 0 | 0 | 0 | 0 |
| PL.56047 | PL.56045 | ABC | 336 MCM AC | 7.21Y | 120.2 | 0.05 | 4.80 | 132.79 | 26 | 2750 | 836 | 96 | 0.78 | 0.0 | 3.321 | 0.052 | 10 | 3 | 1 | 442 |
| PL.41458 | PL.56047 | ABC | 336 MCM AC | 7.21Y | 120.1 | 0.06 | 4.86 | 132.32 | 25 | 2739 | 832 | 96 | 0.93 | 0.0 | 3.384 | 0.063 | 6 | 1 | 1 | 441 |
| PL.41459 | PL.41458 | C | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.86 | 3.47 | 2 | 24 | 6 | 97 | 0.00 | 0.0 | 3.390 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6501 | PL.41459 | C | 60QA | 7.21Y | 120.1 | 0.00 | 4.86 | 3.47 | 6 | 24 | 6 | 97 | 0.00 | 0.0 | 3.390 | 0.006 | 0 | 0 | 0 | 3 |
| PL.41476 | PD.6501 | C | 6 A (CWC) | 7.21Y | 120.1 | 0.01 | 4.87 | 3.47 | 2 | 24 | 6 | 97 | 0.00 | 0.0 | 3.432 | 0.042 | 8 | 2 | 1 | 3 |
| PL.41859 | PL.41476 | C | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.87 | 0.04 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.520 | 0.087 | 0 | 0 | 1 | 1 |
| PL.41477 | PL.41476 | C | 6 A (CWC) | 7.21Y | 120.1 | 0.00 | 4.87 | 2.23 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 3.526 | 0.093 | 16 | 4 | 1 | 1 |
| PL.59398 | PL.41458 | ABC | 336 MCM AC | 7.20Y | 119.9 | 0.19 | 5.05 | 130.89 | 25 | 2709 | 821 | 96 | 2.79 | 0.1 | 3.578 | 0.194 | 11 | 3 | 1 | 437 |
| PL.59402 | PL.59398 | ABC | 336 MCM AC | 7.19Y | 119.9 | 0.03 | 5.09 | 130.37 | 25 | 2695 | 812 | 96 | 0.46 | 0.0 | 3.610 | 0.032 | 0 | 0 | 0 | 436 |
| PL.59404 | PL.59402 | C | #1/0 ACSR | 7.19Y | 119.9 | 0.00 | 5.09 | 0.05 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.667 | 0.057 | 0 | 0 | 1 | 1 |
| PL.59403 | PL.59402 | ABC | 336 MCM AC | 7.19Y | 119.8 | 0.13 | 5.22 | 130.36 | 25 | 2694 | 811 | 96 | 1.87 | 0.1 | 3.741 | 0.131 | 0 | 0 | 0 | 435 |
| PL.59400 | PL.59403 | C | #4 ACSR | 7.19Y | 119.8 | 0.00 | 5.22 | 0.03 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.747 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6693 | PL.59400 | C | 60QA | 7.19Y | 119.8 | 0.00 | 5.22 | 0.03 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.747 | 0.006 | 0 | 0 | 0 | 1 |
| PL.41479 | PD.6693 | C | #4 ACSR | 7.19Y | 119.8 | 0.00 | 5.22 | 0.03 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.801 | 0.054 | 0 | 0 | 0 | 1 |
| PL.41480 | PL.41479 | C | #4 ACSR | 7.19Y | 119.8 | 0.00 | 5.22 | 0.03 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.892 | 0.091 | 0 | 0 | 1 | 1 |
| PL.59399 | PL.59403 | ABC | 336 MCM AC | 7.18Y | 119.7 | 0.08 | 5.30 | 129.62 | 25 | 2677 | 802 | 96 | 1.22 | 0.0 | 3.827 | 0.086 | 0 | 0 | 0 | 433 |
| PL.41819 | PL.59399 | ABC | 336 MCM AC | 7.18Y | 119.6 | 0.07 | 5.37 | 129.62 | 25 | 2676 | 800 | 96 | 0.94 | 0.0 | 3.893 | 0.066 | 0 | 0 | 0 | 433 |
| PL.41820 | PL.41819 | ABC | 336 MCM AC | 7.18Y | 119.6 | 0.01 | 5.38 | 69.78 | 13 | 1433 | 453 | 95 | 0.10 | 0.0 | 3.917 | 0.024 | 0 | 0 | 0 | 264 |
| PL.41368 | PL.41820 | ABC | #3/0 ACSR | 7.18Y | 119.6 | 0.01 | 5.38 | 69.78 | 23 | 1433 | 453 | 95 | 0.05 | 0.0 | 3.923 | 0.006 | 0 | 0 | 0 | 264 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PD.6622 | PL.41368 | ABC | 140VWE | 7.18Y | 119.6 | 0.00 | 5.38 | 69.78 | 33 | 1432 | 453 | 95 | 0.00 | 0.0 | 3.923 | 0.006 | 0 | 0 | 0 | 264 |
| PL.41369 | PD.6622 | ABC | #3/0 ACSR | 7.17Y | 119.5 | 0.12 | 5.50 | 69.78 | 23 | 1432 | 453 | 95 | 1.04 | 0.1 | 4.050 | 0.128 | 0 | 0 | 0 | 264 |
| PL.41482 | PL.41369 | ABC | #3/0 ACSR | 7.16Y | 119.4 | 0.14 | 5.64 | 67.65 | 23 | 1387 | 439 | 95 | 1.22 | 0.1 | 4.209 | 0.159 | 3 | 1 | 1 | 261 |
| PL.54053 | PL.41482 | ABC | #3/0 ACSR | 7.16Y | 119.3 | 0.07 | 5.71 | 67.50 | 22 | 1383 | 437 | 95 | 0.60 | 0.0 | 4.289 | 0.079 | 29 | 8 | 2 | 260 |
| PL.62010 | PL.54053 | ABC | #3/0 ACSR | 7.16Y | 119.3 | 0.03 | 5.74 | 65.51 | 22 | 1341 | 425 | 95 | 0.24 | 0.0 | 4.322 | 0.033 | 7 | 2 | 1 | 256 |
| PL.62011 | PL.62010 | ABC | #3/0 ACSR | 7.15Y | 119.2 | 0.08 | 5.82 | 65.18 | 22 | 1334 | 423 | 95 | 0.70 | 0.1 | 4.419 | 0.098 | 0 | 0 | 0 | 255 |
| PL.41483 | PL.62011 | C | 6 A (CWC) | 7.15Y | 119.2 | 0.00 | 5.82 | 8.94 | 6 | 62 | 17 | 96 | 0.00 | 0.0 | 4.425 | 0.006 | 0 | 0 | 0 | 12 |
| PD.6733 | PL.41483 | C | 50QA | 7.15Y | 119.2 | 0.00 | 5.82 | 8.94 | 18 | 62 | 17 | 96 | 0.00 | 0.0 | 4.425 | 0.006 | 0 | 0 | 0 | 12 |
| PL.41484 | PD.6733 | C | 6 A (CWC) | 7.15Y | 119.2 | 0.03 | 5.85 | 8.94 | 6 | 62 | 17 | 96 | 0.01 | 0.0 | 4.494 | 0.070 | 0 | 0 | 0 | 12 |
| PL.41601 | PL.41484 | C | 6 A (CWC) | 7.15Y | 119.1 | 0.00 | 5.85 | 0.92 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 4.552 | 0.058 | 6 | 2 | 1 | 1 |
| PL.41485 | PL.41484 | C | 6 A (CWC) | 7.15Y | 119.1 | 0.03 | 5.88 | 8.03 | 6 | 55 | 15 | 96 | 0.01 | 0.0 | 4.578 | 0.083 | 9 | 2 | 1 | 11 |
| PL.41486 | PL.41485 | C | 6 A (CWC) | 7.14Y | 119.1 | 0.04 | 5.92 | 6.70 | 5 | 46 | 12 | 97 | 0.02 | 0.0 | 4.719 | 0.141 | 0 | 0 | 0 | 10 |
| PL.41487 | PL.41486 | C | 6 A (CWC) | 7.14Y | 119.1 | 0.03 | 5.95 | 5.25 | 4 | 36 | 10 | 96 | 0.01 | 0.0 | 4.832 | 0.113 | 0 | 0 | 0 | 8 |
| PL.41518 | PL.41487 | C | 6 A (CWC) | 7.14Y | 119.0 | 0.01 | 5.96 | 3.86 | 3 | 27 | 7 | 97 | 0.00 | 0.0 | 4.909 | 0.077 | 0 | 0 | 0 | 5 |
| PL.41519 | PL.41518 | C | 6 A (CWC) | 7.14Y | 119.0 | 0.01 | 5.97 | 3.86 | 3 | 27 | 7 | 97 | 0.00 | 0.0 | 4.947 | 0.039 | 0 | 0 | 0 | 5 |
| PL.41520 | PL.41519 | C | 6 A (CWC) | 7.14Y | 119.0 | 0.01 | 5.97 | 3.86 | 3 | 27 | 7 | 97 | 0.00 | 0.0 | 4.984 | 0.037 | 11 | 3 | 2 | 5 |
| PL.59136 | PL.41520 | C | 6 A (CWC) | 7.14Y | 119.0 | 0.00 | 5.98 | 2.28 | 2 | 16 | 4 | 97 | 0.00 | 0.0 | 5.046 | 0.062 | 16 | 4 | 2 | 3 |
| PL.62045 | PL.59136 | C | 6 A (CWC) | 7.14Y | 119.0 | 0.00 | 5.98 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.087 | 0.041 | 0 | 0 | 1 | 1 |
| PL.41488 | PL.41487 | C | 6 A (CWC) | 7.14Y | 119.0 | 0.01 | 5.95 | 1.40 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 4.911 | 0.080 | 0 | 0 | 0 | 3 |
| PL.41489 | PL.41488 | C | #4 ACSR | 7.14Y | 119.0 | 0.00 | 5.96 | 1.40 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 4.972 | 0.061 | 0 | 0 | 0 | 3 |
| PL.56041 | PL.41489 | C | #4 ACSR | 7.14Y | 119.0 | 0.00 | 5.96 | 1.40 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 5.022 | 0.050 | 10 | 3 | 2 | 3 |
| PL.56042 | PL.56041 | C | #1/0 ACSR | 7.14Y | 119.0 | 0.00 | 5.96 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.080 | 0.057 | 0 | 0 | 0 | 1 |
| PL.53836 | PL.56042 | C | #1/0 ACSR | 7.14Y | 119.0 | 0.00 | 5.96 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.104 | 0.024 | 0 | 0 | 0 | 1 |
| PL.53784 | PL.53836 | C | #1/0 ACSR | 7.14Y | 119.0 | 0.00 | 5.96 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.148 | 0.044 | 0 | 0 | 1 | 1 |
| PL.41757 | PL.41488 | C | 6 A (CWC) | 7.14Y | 119.0 | 0.00 | 5.95 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.958 | 0.047 | 0 | 0 | 0 | 0 |
| PL.41395 | PL.41757 | C | #4 ACSR | 7.14Y | 119.0 | 0.00 | 5.95 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.002 | 0.044 | 0 | 0 | 0 | 0 |
| PL.41517 | PL.41757 | C | 6 A (CWC) | 7.14Y | 119.0 | 0.00 | 5.95 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.007 | 0.049 | 0 | 0 | 0 | 0 |
| PL.41460 | PL.41486 | C | 6 A (CWC) | 7.14Y | 119.1 | 0.00 | 5.92 | 1.45 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 4.776 | 0.058 | 10 | 3 | 2 | 2 |
| PL.41440 | PL.62011 | ABC | #3/0 ACSR | 7.15Y | 119.1 | 0.05 | 5.87 | 62.20 | 21 | 1271 | 405 | 95 | 0.40 | 0.0 | 4.481 | 0.062 | 0 | 0 | 0 | 243 |
| PL.41522 | PL.41440 | A | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.87 | 5.16 | 3 | 36 | 10 | 96 | 0.00 | 0.0 | 4.487 | 0.006 | 0 | 0 | 0 | 4 |
| PD.6692 | PL.41522 | A | 50QA | 7.15Y | 119.1 | 0.00 | 5.87 | 5.16 | 10 | 36 | 10 | 96 | 0.00 | 0.0 | 4.487 | 0.006 | 0 | 0 | 0 | 4 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.41523 | PD.6692 | A | #2 ACSR | 7.15Y | 119.1 | 0.01 | 5.88 | 5.16 | 3 | 36 | 10 | 96 | 0.00 | 0.0 | 4.572 | 0.085 | 0 | 0 | 0 | 4 |
| PL.41524 | PL.41523 | A | #2 ACSR | 7.15Y | 119.1 | 0.01 | 5.89 | 5.16 | 3 | 36 | 10 | 96 | 0.00 | 0.0 | 4.645 | 0.073 | 0 | 0 | 0 | 4 |
| PL.41593 | PL.41524 | A | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.89 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.684 | 0.039 | 0 | 0 | 0 | 0 |
| PL.41525 | PL.41524 | A | #2 ACSR | 7.15Y | 119.1 | 0.02 | 5.91 | 5.16 | 3 | 36 | 10 | 96 | 0.00 | 0.0 | 4.774 | 0.129 | 18 | 5 | 1 | 4 |
| PL.64796 | PL.41525 | A | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.91 | 2.58 | 1 | 18 | 5 | 96 | 0.00 | 0.0 | 4.801 | 0.027 | 0 | 0 | 0 | 3 |
| PL.64797 | PL.64796 | A | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.91 | 2.58 | 1 | 18 | 5 | 96 | 0.00 | 0.0 | 4.801 | 0.000 | 13 | 3 | 1 | 3 |
| PL.63534 | PL.64797 | A | #1/0 ACSR | 7.15Y | 119.1 | 0.00 | 5.91 | 0.75 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 4.810 | 0.008 | 0 | 0 | 0 | 2 |
| PL.63535 | PL.63534 | A | #1/0 ACSR | 7.15Y | 119.1 | 0.00 | 5.91 | 0.75 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 4.853 | 0.044 | 5 | 1 | 2 | 2 |
| PL.41521 | PL.41440 | A | #4 ACSR | 7.15Y | 119.1 | 0.00 | 5.87 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.487 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6484 | PL.41521 | A | 50QA | 7.15Y | 119.1 | 0.00 | 5.87 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.487 | 0.006 | 0 | 0 | 0 | 0 |
| PL.54052 | PD.6484 | A | #4 ACSR | 7.15Y | 119.1 | 0.00 | 5.87 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.541 | 0.054 | 0 | 0 | 0 | 0 |
| PL.42180 | PL.41440 | ABC | #3/0 ACSR | 7.15Y | 119.1 | 0.03 | 5.90 | 60.48 | 20 | 1235 | 395 | 95 | 0.22 | 0.0 | 4.517 | 0.036 | 0 | 0 | 0 | 239 |
| PL.62230 | PL.42180 | ABC | #3/0 ACSR | 7.14Y | 119.0 | 0.10 | 6.00 | 60.48 | 20 | 1235 | 395 | 95 | 0.82 | 0.1 | 4.651 | 0.133 | 0 | 0 | 0 | 239 |
| PL.62231 | PL.62230 | ABC | #3/0 ACSR | 7.12Y | 118.7 | 0.25 | 6.25 | 60.26 | 20 | 1230 | 392 | 95 | 1.95 | 0.2 | 4.970 | 0.320 | 0 | 0 | 0 | 238 |
| PL.42183 | PL.62231 | ABC | #3/0 ACSR | 7.12Y | 118.7 | 0.07 | 6.33 | 59.98 | 20 | 1222 | 388 | 95 | 0.57 | 0.0 | 5.065 | 0.094 | 0 | 0 | 0 | 236 |
| PL.42184 | PL.42183 | A | #4 ACSR | 7.12Y | 118.7 | 0.00 | 6.33 | 2.64 | 2 | 18 | 5 | 96 | 0.00 | 0.0 | 5.070 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6485 | PL.42184 | A | 50QA | 7.12Y | 118.7 | 0.00 | 6.33 | 2.64 | 5 | 18 | 5 | 96 | 0.00 | 0.0 | 5.070 | 0.006 | 0 | 0 | 0 | 2 |
| PL.63232 | PD.6485 | A | #4 ACSR | 7.12Y | 118.7 | 0.01 | 6.33 | 2.64 | 2 | 18 | 5 | 96 | 0.00 | 0.0 | 5.139 | 0.068 | 0 | 0 | 0 | 2 |
| PL.63233 | PL.63232 | A | #4 ACSR | 7.12Y | 118.7 | 0.00 | 6.34 | 2.64 | 2 | 18 | 5 | 96 | 0.00 | 0.0 | 5.169 | 0.031 | 3 | 1 | 1 | 2 |
| PL.63234 | PL.63233 | A | #1/0 ACSR | 7.12Y | 118.7 | 0.00 | 6.34 | 2.24 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 5.173 | 0.004 | 0 | 0 | 0 | 1 |
| PD.9474 | PL.63234 | A | 20T | 7.12Y | 118.7 | 0.00 | 6.34 | 2.24 | 0 | 15 | 4 | 97 | 0.00 | 0.0 | 5.173 | 0.004 | 0 | 0 | 0 | 1 |
| PL.63235 | PD.9474 | A | #1/0 ACSR | 7.12Y | 118.7 | 0.00 | 6.34 | 2.24 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 5.201 | 0.028 | 0 | 0 | 0 | 1 |
| PL.63532 | PL.63235 | A | #1/0 ACSR | 7.12Y | 118.7 | 0.00 | 6.34 | 2.24 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 5.261 | 0.060 | 15 | 4 | 1 | 1 |
| PL.63839 | PL.42183 | ABC | #3/0 ACSR | 7.12Y | 118.6 | 0.03 | 6.36 | 59.10 | 20 | 1203 | 382 | 95 | 0.25 | 0.0 | 5.107 | 0.042 | 0 | 0 | 0 | 234 |
| PL.63840 | PL.63839 | ABC | #3/0 ACSR | 7.12Y | 118.6 | 0.00 | 6.36 | 59.10 | 20 | 1203 | 382 | 95 | 0.00 | 0.0 | 5.107 | 0.000 | 7 | 2 | 1 | 234 |
| PL.62217 | PL.63840 | ABC | #3/0 ACSR | 7.12Y | 118.6 | 0.04 | 6.40 | 58.79 | 20 | 1197 | 380 | 95 | 0.32 | 0.0 | 5.162 | 0.056 | 4 | 1 | 1 | 233 |
| PL.61156 | PL.62217 | ABC | #3/0 ACSR | 7.11Y | 118.5 | 0.07 | 6.47 | 58.59 | 20 | 1192 | 379 | 95 | 0.53 | 0.0 | 5.254 | 0.092 | 0 | 0 | 0 | 232 |
| PD.9099-A | PL.61156 | ABC | Closed | 7.11Y | 118.5 | 0.00 | 6.47 | 58.59 | 0 | 1192 | 378 | 95 | 0.00 | 0.0 | 5.254 | 0.092 | 0 | 0 | 0 | 232 |
| PD.9099-B | PD.9099-A | ABC | Closed | 7.11Y | 118.5 | 0.00 | 6.47 | 58.59 | 0 | 1192 | 378 | 95 | 0.00 | 0.0 | 5.254 | 0.092 | 0 | 0 | 0 | 232 |
| PL.62017 | PD.9099-B | ABC | #3/0 ACSR | 7.11Y | 118.5 | 0.02 | 6.49 | 58.59 | 20 | 1192 | 378 | 95 | 0.17 | 0.0 | 5.283 | 0.029 | 4 | 1 | 1 | 232 |
| PL.62018 | PL.62017 | ABC | #3/0 ACSR | 7.11Y | 118.5 | 0.03 | 6.52 | 58.42 | 19 | 1188 | 377 | 95 | 0.22 | 0.0 | 5.321 | 0.038 | 8 | 2 | 1 | 231 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|------------------------------|-------------------|----------------|-------------------|----|------------|--------------|-------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru | |
| ----- | | | | | | | | | | | | | | | | | | | | | |
| | PL.62019 | | PL.62018 | ABC | #3/0 ACSR | 7.11Y 118.4 | 0.03 | 6.56 | 58.03 | 19 | 1180 | 374 | 95 | 0.25 | 0.0 | 5.366 | 0.045 | 0 | 0 | 0 | 230 |
| | PL.62013 | | PL.62019 | ABC | #3/0 ACSR | 7.10Y 118.4 | 0.06 | 6.62 | 57.05 | 19 | 1159 | 368 | 95 | 0.46 | 0.0 | 5.450 | 0.084 | 0 | 0 | 0 | 226 |
| | PL.62806 | | PL.62013 | ABC | #3/0 ACSR | 7.09Y 118.1 | 0.23 | 6.85 | 50.89 | 17 | 1032 | 334 | 95 | 1.54 | 0.1 | 5.803 | 0.353 | 0 | 0 | 0 | 211 |
| L | PL.62808 | | PL.62806 | ABC | #3/0 ACSR | 7.04Y 117.4 | 0.75 | 7.60 | 49.34 | 16 | 998 | 323 | 95 | 4.77 | 0.5 | 6.969 | 1.166 | 0 | 0 | 0 | 205 L |
| L | PD.9450-A | | PL.62808 | ABC | Closed | 7.04Y 117.4 | 0.00 | 7.60 | 49.34 | 0 | 994 | 316 | 95 | 0.00 | 0.0 | 6.969 | 1.166 | 0 | 0 | 0 | 205 L |
| L | PD.9450-B | | PD.9450-A | ABC | Closed | 7.04Y 117.4 | 0.00 | 7.60 | 49.34 | 0 | 994 | 316 | 95 | 0.00 | 0.0 | 6.969 | 1.166 | 0 | 0 | 0 | 205 L |
| L | PL.61157 | | PD.9450-B | ABC | #3/0 ACSR | 6.99Y 116.6 | 0.82 | 8.42 | 49.34 | 16 | 994 | 316 | 95 | 5.21 | 0.5 | 8.244 | 1.275 | 0 | 0 | 0 | 205 L |
| L | PD.9100-A | | PL.61157 | ABC | Closed | 6.99Y 116.6 | 0.00 | 8.42 | 49.34 | 0 | 988 | 308 | 95 | 0.00 | 0.0 | 8.244 | 1.275 | 0 | 0 | 0 | 205 L |
| L | PD.9100-B | | PD.9100-A | ABC | Closed | 6.99Y 116.6 | 0.00 | 8.42 | 49.34 | 0 | 988 | 308 | 95 | 0.00 | 0.0 | 8.244 | 1.275 | 0 | 0 | 0 | 205 L |
| L | PL.61158 | | PD.9100-B | ABC | #3/0 ACSR | 6.99Y 116.6 | 0.02 | 8.44 | 49.34 | 16 | 988 | 308 | 95 | 0.15 | 0.0 | 8.281 | 0.037 | 0 | 0 | 0 | 205 L |
| L | PL.41681 | | PL.61158 | ABC | #3/0 ACSR | 6.99Y 116.5 | 0.01 | 8.45 | 49.34 | 16 | 988 | 308 | 95 | 0.07 | 0.0 | 8.299 | 0.018 | 0 | 0 | 0 | 205 L |
| L | PL.59323 | | PL.41681 | ABC | #3/0 ACSR | 6.99Y 116.5 | 0.00 | 8.45 | 49.34 | 16 | 988 | 308 | 95 | 0.01 | 0.0 | 8.302 | 0.003 | 0 | 0 | 0 | 205 L |
| | RG.58 | | PL.59323 | ABC | 76.2 KVA | 7.46Y 124.3 | -7.77 | 0.68 | 49.34 | 49 | 988 | 308 | 95 | percent Boost= 6.25 Tap=10.0 | | | | | | | 205 |
| | PL.59324 | | RG.58 | ABC | #3/0 ACSR | 7.42Y 123.6 | 0.73 | 1.42 | 46.25 | 15 | 988 | 308 | 95 | 4.40 | 0.4 | 9.527 | 1.224 | 0 | 0 | 0 | 205 |
| | PL.52803 | | PL.59324 | ABC | #3/0 ACSR | 7.39Y 123.2 | 0.36 | 1.77 | 46.25 | 15 | 984 | 301 | 96 | 2.15 | 0.2 | 10.133 | 0.606 | 14 | 4 | 1 | 205 |
| | PL.52804 | | PL.52803 | ABC | #3/0 ACSR | 7.39Y 123.2 | 0.04 | 1.81 | 45.61 | 15 | 968 | 295 | 96 | 0.22 | 0.0 | 10.197 | 0.064 | 6 | 2 | 1 | 204 |
| | PL.41900 | | PL.52804 | C | 6 A (CWC) | 7.39Y 123.2 | 0.00 | 1.81 | 0.90 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 10.279 | 0.082 | 6 | 2 | 1 | 1 |
| P | PL.41901 | | PL.41900 | C | 6 A (CWC) | 7.39Y 123.2 | -0.00 | 1.81 | -0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.327 | 0.049 | 0 | 0 | 0 | 0 P |
| P | PL.41903 | | PL.41901 | C | 1/0 AL URD | 7.39Y 123.2 | 0.00 | 1.81 | -0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.333 | 0.006 | 0 | 0 | 0 | 0 P |
| | PD.6457 | | PL.41903 | C | 50QA | 7.39Y 123.2 | 0.00 | 1.81 | -0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.333 | 0.006 | 0 | 0 | 0 | 0 |
| P | PL.59309 | | PD.6457 | C | 1/0 AL URD | 7.39Y 123.2 | 0.00 | 1.81 | -0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.371 | 0.038 | 0 | 0 | 0 | 0 P |
| | PL.41902 | | PL.41901 | C | 6 A (CWC) | 7.39Y 123.2 | 0.00 | 1.81 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.433 | 0.105 | 0 | 0 | 0 | 0 |
| | PL.41402 | | PL.52804 | ABC | #3/0 ACSR | 7.39Y 123.1 | 0.05 | 1.86 | 45.02 | 15 | 955 | 291 | 96 | 0.29 | 0.0 | 10.281 | 0.084 | 0 | 0 | 0 | 202 |
| | PL.42004 | | PL.41402 | ABC | #1/0 ACSR | 7.39Y 123.1 | 0.05 | 1.92 | 44.34 | 19 | 940 | 287 | 96 | 0.35 | 0.0 | 10.349 | 0.068 | 30 | 8 | 2 | 197 |
| | PL.42005 | | PL.42004 | ABC | #1/0 ACSR | 7.38Y 123.0 | 0.04 | 1.95 | 42.94 | 19 | 910 | 278 | 96 | 0.24 | 0.0 | 10.399 | 0.050 | 3 | 1 | 1 | 195 |
| | PL.42006 | | PL.42005 | ABC | #1/0 ACSR | 7.38Y 123.0 | 0.06 | 2.01 | 42.82 | 19 | 907 | 277 | 96 | 0.35 | 0.0 | 10.470 | 0.071 | 0 | 0 | 0 | 194 |
| | PL.41420 | | PL.42006 | ABC | #1/0 ACSR | 7.37Y 122.9 | 0.08 | 2.09 | 42.36 | 18 | 897 | 275 | 96 | 0.49 | 0.1 | 10.573 | 0.102 | 5 | 1 | 1 | 192 |
| | PL.41421 | | PL.41420 | ABC | #1/0 ACSR | 7.37Y 122.9 | 0.03 | 2.12 | 42.14 | 18 | 891 | 273 | 96 | 0.19 | 0.0 | 10.613 | 0.040 | 5 | 1 | 1 | 191 |
| | PL.42250 | | PL.41421 | ABC | #1/0 ACSR | 7.37Y 122.8 | 0.04 | 2.16 | 24.51 | 11 | 523 | 142 | 97 | 0.13 | 0.0 | 10.698 | 0.085 | 7 | 2 | 2 | 170 |
| | PL.42251 | | PL.42250 | ABC | #1/0 ACSR | 7.37Y 122.8 | 0.01 | 2.16 | 24.21 | 11 | 517 | 140 | 97 | 0.02 | 0.0 | 10.713 | 0.016 | 0 | 0 | 0 | 168 |
| | PL.42328 | | PL.42251 | ABC | #1/0 ACSR | 7.37Y 122.8 | 0.00 | 2.17 | 24.21 | 11 | 517 | 140 | 97 | 0.01 | 0.0 | 10.719 | 0.006 | 0 | 0 | 0 | 168 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PD.6800 | PL.42328 | ABC | 50H | 7.37Y | 122.8 | 0.00 | 2.17 | 24.21 | 48 | 517 | 140 | 97 | 0.00 | 0.0 | 10.719 | 0.006 | 0 | 0 | 0 | 168 |
| PL.42329 | PD.6800 | ABC | #1/0 ACSR | 7.37Y | 122.8 | 0.03 | 2.20 | 24.21 | 11 | 517 | 140 | 97 | 0.12 | 0.0 | 10.796 | 0.077 | 4 | 1 | 1 | 168 |
| PL.42330 | PL.42329 | C | #4 ACSR | 7.37Y | 122.8 | 0.00 | 2.20 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.802 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6488 | PL.42330 | C | 40QA | 7.37Y | 122.8 | 0.00 | 2.20 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.802 | 0.006 | 0 | 0 | 0 | 0 |
| PL.42331 | PD.6488 | C | #4 ACSR | 7.37Y | 122.8 | 0.00 | 2.20 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.821 | 0.019 | 0 | 0 | 0 | 0 |
| PL.42332 | PL.42329 | C | 6 A (CWC) | 7.37Y | 122.8 | 0.05 | 2.25 | 5.81 | 4 | 41 | 11 | 97 | 0.01 | 0.0 | 10.985 | 0.189 | 7 | 2 | 1 | 6 |
| PL.42333 | PL.42332 | C | 6 A (CWC) | 7.36Y | 122.7 | 0.01 | 2.26 | 4.79 | 3 | 34 | 9 | 97 | 0.00 | 0.0 | 11.026 | 0.041 | 0 | 0 | 0 | 5 |
| PL.42334 | PL.42333 | C | 6 A (CWC) | 7.36Y | 122.7 | 0.01 | 2.27 | 4.79 | 3 | 34 | 9 | 97 | 0.00 | 0.0 | 11.087 | 0.061 | 11 | 3 | 1 | 5 |
| PL.42335 | PL.42334 | C | 6 A (CWC) | 7.36Y | 122.7 | 0.01 | 2.27 | 3.27 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 11.159 | 0.073 | 13 | 3 | 2 | 4 |
| PL.42336 | PL.42335 | C | 6 A (CWC) | 7.36Y | 122.7 | 0.01 | 2.28 | 1.43 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 11.320 | 0.161 | 10 | 3 | 2 | 2 |
| PL.42337 | PL.42329 | ABC | #1/0 ACSR | 7.37Y | 122.8 | 0.03 | 2.23 | 22.10 | 10 | 472 | 128 | 97 | 0.10 | 0.0 | 10.870 | 0.074 | 0 | 0 | 0 | 161 |
| PL.41736 | PL.42337 | A | #1/0 ACSR | 7.37Y | 122.8 | 0.00 | 2.23 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.944 | 0.074 | 0 | 0 | 1 | 1 |
| PL.42338 | PL.42337 | ABC | #1/0 ACSR | 7.37Y | 122.8 | 0.01 | 2.24 | 22.10 | 10 | 471 | 127 | 97 | 0.04 | 0.0 | 10.899 | 0.029 | 2 | 0 | 1 | 160 |
| PL.42339 | PL.42338 | ABC | #1/0 ACSR | 7.36Y | 122.7 | 0.02 | 2.26 | 22.03 | 10 | 470 | 127 | 97 | 0.07 | 0.0 | 10.951 | 0.052 | 15 | 4 | 4 | 159 |
| PL.42340 | PL.42339 | ABC | #1/0 ACSR | 7.36Y | 122.7 | 0.03 | 2.30 | 21.33 | 9 | 455 | 123 | 97 | 0.11 | 0.0 | 11.042 | 0.091 | 13 | 4 | 2 | 155 |
| PL.42341 | PL.42340 | ABC | #1/0 ACSR | 7.36Y | 122.7 | 0.04 | 2.34 | 20.69 | 9 | 441 | 119 | 97 | 0.12 | 0.0 | 11.148 | 0.105 | 6 | 2 | 1 | 152 |
| PL.42345 | PL.42341 | ABC | #1/0 ACSR | 7.36Y | 122.6 | 0.02 | 2.36 | 19.79 | 9 | 422 | 114 | 97 | 0.07 | 0.0 | 11.216 | 0.068 | 7 | 2 | 2 | 149 |
| PL.42346 | PL.42345 | C | 6 A (CWC) | 7.36Y | 122.6 | 0.00 | 2.36 | 3.61 | 3 | 26 | 7 | 97 | 0.00 | 0.0 | 11.222 | 0.006 | 0 | 0 | 0 | 5 |
| PD.6736 | PL.42346 | C | 40QA | 7.36Y | 122.6 | 0.00 | 2.36 | 3.61 | 9 | 26 | 7 | 97 | 0.00 | 0.0 | 11.222 | 0.006 | 0 | 0 | 0 | 5 |
| PL.42347 | PD.6736 | C | 6 A (CWC) | 7.36Y | 122.6 | 0.01 | 2.37 | 3.61 | 3 | 26 | 7 | 97 | 0.00 | 0.0 | 11.309 | 0.087 | 16 | 4 | 3 | 5 |
| PL.42348 | PL.42347 | C | 6 A (CWC) | 7.36Y | 122.6 | 0.00 | 2.37 | 1.34 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 11.333 | 0.024 | 0 | 0 | 0 | 2 |
| PL.42349 | PL.42348 | C | 6 A (CWC) | 7.36Y | 122.6 | 0.00 | 2.37 | 0.46 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 11.384 | 0.051 | 3 | 1 | 1 | 1 |
| PL.41371 | PL.42348 | C | #2 ACSR | 7.36Y | 122.6 | 0.00 | 2.37 | 0.87 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 11.438 | 0.105 | 6 | 2 | 1 | 1 |
| PL.42350 | PL.42345 | ABC | #1/0 ACSR | 7.36Y | 122.6 | 0.04 | 2.40 | 18.24 | 8 | 389 | 105 | 97 | 0.12 | 0.0 | 11.354 | 0.138 | 7 | 2 | 2 | 142 |
| PL.42351 | PL.42350 | ABC | #1/0 ACSR | 7.35Y | 122.6 | 0.02 | 2.42 | 17.89 | 8 | 381 | 103 | 97 | 0.04 | 0.0 | 11.402 | 0.049 | 0 | 0 | 1 | 140 |
| PL.42352 | PL.42351 | ABC | #1/0 ACSR | 7.35Y | 122.6 | 0.01 | 2.43 | 17.89 | 8 | 381 | 103 | 97 | 0.03 | 0.0 | 11.433 | 0.031 | 4 | 1 | 1 | 139 |
| PL.66265 | PL.42352 | C | 6 A (CWC) | 7.35Y | 122.6 | 0.00 | 2.43 | 0.58 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 11.513 | 0.080 | 0 | 0 | 0 | 2 |
| PL.66266 | PL.66265 | C | 6 A (CWC) | 7.35Y | 122.6 | 0.00 | 2.43 | 0.58 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 11.513 | 0.000 | 4 | 1 | 2 | 2 |
| PL.42355 | PL.66266 | C | 6 A (CWC) | 7.35Y | 122.6 | 0.00 | 2.43 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.570 | 0.057 | 0 | 0 | 0 | 0 |
| PL.42353 | PL.42352 | ABC | #1/0 ACSR | 7.35Y | 122.5 | 0.06 | 2.49 | 17.25 | 8 | 367 | 99 | 97 | 0.16 | 0.0 | 11.639 | 0.206 | 10 | 3 | 1 | 134 |
| PL.42367 | PL.42353 | ABC | #1/0 ACSR | 7.35Y | 122.5 | 0.05 | 2.55 | 16.25 | 7 | 346 | 93 | 97 | 0.13 | 0.0 | 11.825 | 0.186 | 1 | 0 | 2 | 131 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42368 | PL.42367 | ABC | #1/0 ACSR | 7.35Y | 122.4 | 0.02 | 2.57 | 16.21 | 7 | 345 | 93 | 97 | 0.06 | 0.0 | 11.911 | 0.086 | 7 | 2 | 1 | 129 |
| PL.42369 | PL.42368 | ABC | #1/0 ACSR | 7.34Y | 122.4 | 0.02 | 2.59 | 15.90 | 7 | 338 | 91 | 97 | 0.05 | 0.0 | 11.991 | 0.081 | 0 | 0 | 1 | 128 |
| PL.42370 | PL.42369 | ABC | #1/0 ACSR | 7.34Y | 122.4 | 0.02 | 2.61 | 15.90 | 7 | 338 | 91 | 97 | 0.04 | 0.0 | 12.050 | 0.058 | 8 | 2 | 1 | 127 |
| PL.42371 | PL.42370 | ABC | #1/0 ACSR | 7.34Y | 122.4 | 0.01 | 2.63 | 15.54 | 7 | 331 | 89 | 97 | 0.03 | 0.0 | 12.103 | 0.053 | 2 | 1 | 1 | 126 |
| PL.42372 | PL.42371 | ABC | #1/0 ACSR | 7.34Y | 122.4 | 0.02 | 2.64 | 15.45 | 7 | 329 | 89 | 97 | 0.04 | 0.0 | 12.164 | 0.061 | 0 | 0 | 0 | 125 |
| PL.42374 | PL.42372 | ABC | #1/0 ACSR | 7.34Y | 122.3 | 0.03 | 2.67 | 14.53 | 6 | 309 | 83 | 97 | 0.06 | 0.0 | 12.272 | 0.108 | 8 | 2 | 1 | 122 |
| PL.66273 | PL.42374 | C | #1/0 ACSR | 7.34Y | 122.3 | 0.00 | 2.67 | 0.60 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 12.274 | 0.002 | 0 | 0 | 0 | 1 |
| PD.10009 | PL.66273 | C | 20T | 7.34Y | 122.3 | 0.00 | 2.67 | 0.60 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 12.274 | 0.002 | 0 | 0 | 0 | 1 |
| PL.66274 | PD.10009 | C | #1/0 ACSR | 7.34Y | 122.3 | 0.00 | 2.67 | 0.60 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 12.344 | 0.070 | 4 | 1 | 1 | 1 |
| PL.66270 | PL.42374 | ABC | #1/0 ACSR | 7.34Y | 122.3 | 0.00 | 2.67 | 13.97 | 6 | 297 | 80 | 97 | 0.00 | 0.0 | 12.272 | 0.000 | 0 | 0 | 0 | 120 |
| PL.66271 | PL.66270 | ABC | #1/0 ACSR | 7.34Y | 122.3 | 0.01 | 2.68 | 13.97 | 6 | 297 | 80 | 97 | 0.02 | 0.0 | 12.315 | 0.043 | 11 | 3 | 1 | 120 |
| PL.42380 | PL.66271 | ABC | #1/0 ACSR | 7.34Y | 122.3 | 0.02 | 2.70 | 12.93 | 6 | 275 | 74 | 97 | 0.03 | 0.0 | 12.386 | 0.071 | 8 | 2 | 1 | 111 |
| PL.42381 | PL.42380 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.70 | 0.93 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 12.391 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6474 | PL.42381 | C | 40QA | 7.34Y | 122.3 | 0.00 | 2.70 | 0.93 | 2 | 7 | 2 | 96 | 0.00 | 0.0 | 12.391 | 0.006 | 0 | 0 | 0 | 3 |
| PL.61153 | PD.6474 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.70 | 0.93 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 12.405 | 0.014 | 6 | 2 | 1 | 3 |
| PL.61154 | PL.61153 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.70 | 0.14 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 12.631 | 0.226 | 1 | 0 | 2 | 2 |
| PL.42382 | PL.61154 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.70 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.684 | 0.053 | 0 | 0 | 0 | 0 |
| PL.42383 | PL.42382 | C | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.70 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.751 | 0.067 | 0 | 0 | 0 | 0 |
| PL.41589 | PL.42380 | ABC | #1/0 ACSR | 7.34Y | 122.3 | 0.01 | 2.71 | 12.24 | 5 | 260 | 70 | 97 | 0.03 | 0.0 | 12.452 | 0.066 | 0 | 0 | 0 | 107 |
| PL.41338 | PL.41589 | A | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.71 | 1.50 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 12.458 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6475 | PL.41338 | A | 40QA | 7.34Y | 122.3 | 0.00 | 2.71 | 1.50 | 4 | 11 | 3 | 96 | 0.00 | 0.0 | 12.458 | 0.006 | 0 | 0 | 0 | 2 |
| PL.41339 | PD.6475 | A | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.71 | 1.50 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 12.489 | 0.032 | 11 | 3 | 2 | 2 |
| PL.56455 | PL.41589 | ABC | #1/0 ACSR | 7.34Y | 122.3 | 0.01 | 2.72 | 11.74 | 5 | 249 | 67 | 97 | 0.01 | 0.0 | 12.487 | 0.035 | 12 | 3 | 1 | 105 |
| PL.57100 | PL.56455 | ABC | #1/0 ACSR | 7.34Y | 122.3 | 0.02 | 2.74 | 11.17 | 5 | 237 | 64 | 97 | 0.04 | 0.0 | 12.597 | 0.110 | 7 | 2 | 1 | 104 |
| PL.57101 | PL.57100 | C | #4 ACSR | 7.34Y | 122.3 | 0.00 | 2.74 | 0.64 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 12.603 | 0.006 | 0 | 0 | 0 | 2 |
| PD.8332 | PL.57101 | C | 40QA | 7.34Y | 122.3 | 0.00 | 2.74 | 0.64 | 2 | 5 | 1 | 98 | 0.00 | 0.0 | 12.603 | 0.006 | 0 | 0 | 0 | 2 |
| PL.57102 | PD.8332 | C | #4 ACSR | 7.34Y | 122.3 | 0.00 | 2.74 | 0.64 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 12.692 | 0.089 | 5 | 1 | 2 | 2 |
| PL.61147 | PL.57100 | ABC | #1/0 ACSR | 7.33Y | 122.2 | 0.02 | 2.76 | 10.64 | 5 | 226 | 61 | 97 | 0.03 | 0.0 | 12.707 | 0.109 | 11 | 3 | 2 | 101 |
| PL.61148 | PL.61147 | C | #4 ACSR | 7.33Y | 122.2 | 0.00 | 2.76 | 10.05 | 8 | 71 | 19 | 97 | 0.00 | 0.0 | 12.713 | 0.006 | 0 | 0 | 0 | 25 |
| PD.6476 | PL.61148 | C | 40QA | 7.33Y | 122.2 | 0.00 | 2.76 | 10.05 | 25 | 71 | 19 | 97 | 0.00 | 0.0 | 12.713 | 0.006 | 0 | 0 | 0 | 25 |
| PL.59385 | PD.6476 | C | #4 ACSR | 7.33Y | 122.2 | 0.03 | 2.80 | 10.05 | 8 | 71 | 19 | 97 | 0.02 | 0.0 | 12.788 | 0.075 | 5 | 1 | 2 | 25 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.59386 | PL.59385 | C | #4 ACSR | 7.33Y | 122.2 | 0.03 | 2.82 | 9.34 | 7 | 66 | 18 | 96 | 0.01 | 0.0 | 12.854 | 0.065 | 3 | 1 | 1 | 23 |
| PL.59388 | PL.59386 | C | #4 ACSR | 7.33Y | 122.2 | 0.00 | 2.82 | 0.33 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 12.907 | 0.053 | 2 | 1 | 1 | 1 |
| PL.59387 | PL.59386 | C | #4 ACSR | 7.33Y | 122.2 | 0.01 | 2.83 | 8.52 | 7 | 60 | 16 | 97 | 0.01 | 0.0 | 12.883 | 0.029 | 0 | 0 | 2 | 21 |
| PL.41602 | PL.59387 | C | #4 ACSR | 7.33Y | 122.2 | 0.01 | 2.85 | 8.49 | 7 | 60 | 16 | 97 | 0.01 | 0.0 | 12.919 | 0.036 | 0 | 0 | 1 | 19 |
| PL.62244 | PL.41602 | C | #4 ACSR | 7.33Y | 122.1 | 0.03 | 2.87 | 6.82 | 5 | 48 | 13 | 97 | 0.01 | 0.0 | 13.011 | 0.092 | 6 | 2 | 3 | 13 |
| PL.62245 | PL.62244 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.88 | 1.12 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 13.079 | 0.068 | 0 | 0 | 1 | 3 |
| PL.42215 | PL.62245 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.88 | 1.06 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 13.126 | 0.047 | 7 | 2 | 1 | 2 |
| PL.41588 | PL.42215 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.88 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 13.169 | 0.043 | 0 | 0 | 0 | 0 |
| PL.42216 | PL.42215 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.88 | 0.10 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 13.171 | 0.045 | 1 | 0 | 1 | 1 |
| PL.62246 | PL.62244 | C | #4 ACSR | 7.33Y | 122.1 | 0.01 | 2.88 | 4.78 | 4 | 34 | 9 | 97 | 0.00 | 0.0 | 13.053 | 0.042 | 0 | 0 | 0 | 7 |
| PL.41388 | PL.62246 | C | #2 ACSR | 7.33Y | 122.1 | 0.01 | 2.89 | 3.28 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 13.200 | 0.147 | 23 | 6 | 2 | 2 |
| PL.42217 | PL.62246 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.89 | 1.50 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 13.089 | 0.036 | 0 | 0 | 1 | 5 |
| PL.42356 | PL.42217 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.89 | 1.43 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 13.111 | 0.021 | 0 | 0 | 0 | 4 |
| PL.41782 | PL.42356 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.89 | 0.96 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 13.140 | 0.029 | 7 | 2 | 1 | 1 |
| PL.42357 | PL.42356 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.89 | 0.47 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 13.165 | 0.055 | 0 | 0 | 0 | 3 |
| PL.42358 | PL.42357 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.89 | 0.47 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 13.217 | 0.051 | 3 | 1 | 2 | 3 |
| PL.42359 | PL.42358 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.89 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 13.254 | 0.038 | 0 | 0 | 1 | 1 |
| PL.41576 | PL.41602 | C | #4 ACSR | 7.33Y | 122.2 | 0.00 | 2.85 | 1.51 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 12.955 | 0.037 | 11 | 3 | 2 | 2 |
| PL.41603 | PL.41602 | C | #4 ACSR | 7.33Y | 122.2 | 0.00 | 2.85 | 0.14 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 12.924 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6588 | PL.41603 | C | 25QA | 7.33Y | 122.2 | 0.00 | 2.85 | 0.14 | 1 | 1 | 0 | 100 | 0.00 | 0.0 | 12.924 | 0.006 | 0 | 0 | 0 | 3 |
| PL.41604 | PD.6588 | C | #4 ACSR | 7.33Y | 122.2 | 0.00 | 2.85 | 0.14 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 12.956 | 0.032 | 1 | 0 | 3 | 3 |
| PL.64088 | PL.59385 | C | #1/0 ACSR | 7.33Y | 122.2 | 0.00 | 2.80 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.822 | 0.033 | 0 | 0 | 0 | 0 |
| PL.61151 | PL.61147 | C | 6 A (CWC) | 7.33Y | 122.2 | 0.01 | 2.78 | 20.28 | 14 | 144 | 39 | 97 | 0.02 | 0.0 | 12.722 | 0.016 | 0 | 0 | 0 | 74 |
| PD.9098 | PL.61151 | C | 35L | 7.33Y | 122.2 | 0.00 | 2.78 | 20.28 | 58 | 144 | 39 | 97 | 0.00 | 0.0 | 12.722 | 0.016 | 0 | 0 | 0 | 74 |
| PL.61152 | PD.9098 | C | 6 A (CWC) | 7.33Y | 122.1 | 0.09 | 2.86 | 20.28 | 14 | 144 | 39 | 97 | 0.09 | 0.1 | 12.819 | 0.097 | 6 | 2 | 1 | 74 |
| PL.61149 | PL.61152 | C | 6 A (CWC) | 7.32Y | 122.0 | 0.13 | 2.99 | 19.39 | 14 | 137 | 37 | 97 | 0.13 | 0.1 | 12.961 | 0.142 | 0 | 0 | 0 | 73 |
| PL.41281 | PL.61149 | C | 6 A (CWC) | 7.32Y | 121.9 | 0.07 | 3.06 | 17.71 | 13 | 125 | 34 | 96 | 0.07 | 0.1 | 13.050 | 0.089 | 0 | 0 | 0 | 71 |
| PL.42218 | PL.41281 | C | 6 A (CWC) | 7.30Y | 121.6 | 0.32 | 3.38 | 16.28 | 12 | 115 | 31 | 97 | 0.28 | 0.2 | 13.483 | 0.433 | 0 | 0 | 0 | 69 |
| PL.41800 | PL.42218 | C | 6 A (CWC) | 7.29Y | 121.5 | 0.08 | 3.46 | 15.76 | 11 | 111 | 30 | 97 | 0.06 | 0.1 | 13.590 | 0.106 | 2 | 0 | 1 | 68 |
| PL.41801 | PL.41800 | C | 6 A (CWC) | 7.29Y | 121.4 | 0.10 | 3.56 | 15.52 | 11 | 109 | 29 | 97 | 0.08 | 0.1 | 13.727 | 0.138 | 0 | 0 | 0 | 67 |
| PL.41575 | PL.41801 | C | #4 ACSR | 7.29Y | 121.4 | 0.00 | 3.56 | 0.05 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 13.767 | 0.040 | 0 | 0 | 2 | 2 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42384 | PL.41801 | C | 6 A (CWC) | 7.28Y | 121.4 | 0.06 | 3.62 | 15.47 | 11 | 109 | 29 | 97 | 0.05 | 0.0 | 13.817 | 0.089 | 0 | 0 | 0 | 65 |
| PL.42385 | PL.42384 | C | 6 A (CWC) | 7.28Y | 121.3 | 0.13 | 3.75 | 15.47 | 11 | 109 | 29 | 97 | 0.10 | 0.1 | 13.995 | 0.178 | 0 | 0 | 0 | 65 |
| PL.41390 | PL.42385 | C | #4 ACSR | 7.27Y | 121.2 | 0.01 | 3.75 | 1.09 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 14.323 | 0.328 | 8 | 2 | 4 | 4 |
| PL.42388 | PL.42385 | C | 6 A (CWC) | 7.25Y | 120.9 | 0.40 | 4.15 | 14.38 | 10 | 101 | 27 | 97 | 0.31 | 0.3 | 14.604 | 0.609 | 0 | 0 | 1 | 61 |
| PL.42389 | PL.42388 | C | 6 A (CWC) | 7.25Y | 120.8 | 0.06 | 4.20 | 14.32 | 10 | 100 | 27 | 97 | 0.04 | 0.0 | 14.699 | 0.095 | 18 | 5 | 2 | 60 |
| PL.61135 | PL.42389 | C | 6 A (CWC) | 7.24Y | 120.7 | 0.06 | 4.26 | 11.77 | 8 | 82 | 22 | 97 | 0.04 | 0.0 | 14.805 | 0.106 | 1 | 0 | 1 | 58 |
| PL.61138 | PL.61135 | C | 6 A (CWC) | 7.24Y | 120.7 | 0.01 | 4.27 | 11.68 | 8 | 82 | 22 | 97 | 0.01 | 0.0 | 14.829 | 0.024 | 8 | 2 | 1 | 57 |
| PL.61139 | PL.61138 | C | 6 A (CWC) | 7.24Y | 120.7 | 0.02 | 4.29 | 10.48 | 7 | 73 | 20 | 96 | 0.01 | 0.0 | 14.864 | 0.034 | 1 | 0 | 1 | 56 |
| PL.61136 | PL.61139 | C | 6 A (CWC) | 7.24Y | 120.7 | 0.01 | 4.30 | 7.60 | 5 | 53 | 14 | 97 | 0.01 | 0.0 | 14.908 | 0.044 | 7 | 2 | 2 | 51 |
| PL.42390 | PL.61136 | C | 6 A (CWC) | 7.24Y | 120.7 | 0.04 | 4.34 | 6.54 | 5 | 46 | 12 | 97 | 0.01 | 0.0 | 15.051 | 0.143 | 0 | 0 | 0 | 49 |
| PL.42391 | PL.42390 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.02 | 4.36 | 5.90 | 4 | 41 | 11 | 97 | 0.00 | 0.0 | 15.111 | 0.060 | 3 | 1 | 1 | 48 |
| PL.41389 | PL.42391 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.02 | 4.38 | 5.52 | 4 | 39 | 10 | 97 | 0.01 | 0.0 | 15.196 | 0.085 | 0 | 0 | 1 | 47 |
| PL.41774 | PL.41389 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.02 | 4.40 | 5.52 | 4 | 39 | 10 | 97 | 0.00 | 0.0 | 15.257 | 0.061 | 0 | 0 | 0 | 46 |
| PL.42400 | PL.41774 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.01 | 4.41 | 3.90 | 3 | 27 | 7 | 97 | 0.00 | 0.0 | 15.342 | 0.085 | 10 | 3 | 3 | 44 |
| PL.42401 | PL.42400 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.01 | 4.42 | 2.41 | 2 | 17 | 5 | 96 | 0.00 | 0.0 | 15.408 | 0.066 | 0 | 0 | 0 | 41 |
| PL.42402 | PL.42401 | C | 6 A (CWC) | 7.23Y | 120.6 | 0.01 | 4.42 | 2.41 | 2 | 17 | 5 | 96 | 0.00 | 0.0 | 15.468 | 0.060 | 0 | 0 | 0 | 41 |
| PL.42405 | PL.42402 | C | 6 A (CWC) | 7.23Y | 120.6 | 0.01 | 4.43 | 2.41 | 2 | 17 | 5 | 96 | 0.00 | 0.0 | 15.544 | 0.075 | 0 | 0 | 0 | 41 |
| PL.54137 | PL.42405 | C | 6 A (CWC) | 7.23Y | 120.6 | 0.01 | 4.44 | 2.41 | 2 | 17 | 5 | 96 | 0.00 | 0.0 | 15.657 | 0.113 | 0 | 0 | 0 | 41 |
| PL.58554 | PL.54137 | C | 6 A (CWC) | 7.23Y | 120.6 | 0.00 | 4.44 | 0.82 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 15.659 | 0.002 | 0 | 0 | 0 | 25 |
| PD.8618 | PL.58554 | C | 25T | 7.23Y | 120.6 | 0.00 | 4.44 | 0.82 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 15.659 | 0.002 | 0 | 0 | 0 | 25 |
| PL.58555 | PD.8618 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.03 | 4.47 | 0.82 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 16.553 | 0.894 | 1 | 0 | 3 | 25 |
| PL.54138 | PL.58555 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.48 | 0.72 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 16.588 | 0.035 | 0 | 0 | 3 | 22 |
| PL.42411 | PL.54138 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.48 | 0.66 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 16.648 | 0.059 | 1 | 0 | 3 | 19 |
| PL.41725 | PL.42411 | C | #4 ACSR | 7.23Y | 120.5 | 0.00 | 4.48 | 0.04 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.759 | 0.111 | 0 | 0 | 1 | 1 |
| PL.42412 | PL.42411 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.48 | 0.41 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 16.682 | 0.034 | 1 | 0 | 3 | 15 |
| PL.42413 | PL.42412 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.48 | 0.23 | 0 | 2 | 0 | 100 | 0.00 | 0.0 | 16.704 | 0.022 | 0 | 0 | 3 | 12 |
| PL.42414 | PL.42413 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.48 | 0.22 | 0 | 2 | 0 | 100 | 0.00 | 0.0 | 16.742 | 0.038 | 1 | 0 | 2 | 9 |
| PL.42415 | PL.42414 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.48 | 0.09 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 16.795 | 0.053 | 0 | 0 | 3 | 7 |
| PL.42416 | PL.42415 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.48 | 0.05 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.842 | 0.047 | 0 | 0 | 1 | 4 |
| PL.42417 | PL.42416 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.48 | 0.05 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.949 | 0.107 | 0 | 0 | 1 | 3 |
| PL.42418 | PL.42417 | C | #2 ACSR | 7.23Y | 120.5 | 0.00 | 4.48 | 0.05 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.974 | 0.025 | 0 | 0 | 1 | 2 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.58845 | PL.42418 | C | #2 ACSR | 7.23Y | 120.5 | 0.00 | 4.48 | 0.04 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 17.007 | 0.033 | 0 | 0 | 1 | 1 |
| PL.58552 | PL.54137 | C | 6 A (CWC) | 7.23Y | 120.6 | 0.00 | 4.44 | 1.59 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 15.660 | 0.003 | 0 | 0 | 0 | 16 |
| PD.8617 | PL.58552 | C | 25QA | 7.23Y | 120.6 | 0.00 | 4.44 | 1.59 | 6 | 11 | 3 | 96 | 0.00 | 0.0 | 15.660 | 0.003 | 0 | 0 | 0 | 16 |
| PL.58553 | PD.8617 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.02 | 4.46 | 1.59 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 15.993 | 0.334 | 5 | 1 | 2 | 16 |
| PL.58551 | PL.58553 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.46 | 0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.110 | 0.117 | 0 | 0 | 2 | 5 |
| PL.42409 | PL.58551 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.46 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.306 | 0.196 | 0 | 0 | 0 | 3 |
| PL.42407 | PL.42409 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.46 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.348 | 0.042 | 0 | 0 | 0 | 0 |
| PL.61155 | PL.42407 | C | #1/0 ACSR | 7.23Y | 120.5 | 0.00 | 4.46 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.377 | 0.028 | 0 | 0 | 0 | 0 |
| PL.42408 | PL.42407 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.46 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.509 | 0.161 | 0 | 0 | 0 | 0 |
| PL.42410 | PL.42409 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.46 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.345 | 0.039 | 0 | 0 | 3 | 3 |
| PL.63838 | PL.42410 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.46 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.384 | 0.039 | 0 | 0 | 0 | 0 |
| PL.58550 | PL.58553 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.01 | 4.47 | 0.91 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 16.251 | 0.258 | 2 | 0 | 1 | 9 |
| PL.41551 | PL.58550 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.47 | 0.57 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 16.315 | 0.064 | 4 | 1 | 4 | 4 |
| PL.42406 | PL.58550 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.47 | 0.08 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 16.344 | 0.092 | 0 | 0 | 1 | 4 |
| PL.56928 | PL.42406 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.47 | 0.08 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 16.423 | 0.079 | 0 | 0 | 1 | 3 |
| PL.56929 | PL.56928 | C | 6 A (CWC) | 7.23Y | 120.5 | 0.00 | 4.47 | 0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 16.492 | 0.069 | 0 | 0 | 2 | 2 |
| PL.42403 | PL.42402 | C | #4 ACSR | 7.23Y | 120.6 | 0.00 | 4.42 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 15.533 | 0.064 | 0 | 0 | 0 | 0 |
| PL.42404 | PL.42403 | C | #4 ACSR | 7.23Y | 120.6 | 0.00 | 4.42 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 15.574 | 0.041 | 0 | 0 | 0 | 0 |
| PL.41607 | PL.42401 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.00 | 4.42 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 15.520 | 0.112 | 0 | 0 | 0 | 0 |
| PL.41775 | PL.41774 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.01 | 4.40 | 1.62 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 15.354 | 0.097 | 0 | 0 | 0 | 2 |
| PL.41043 | PL.41775 | C | #4 ACSR | 7.24Y | 120.6 | 0.00 | 4.40 | 0.90 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 15.399 | 0.045 | 6 | 2 | 1 | 1 |
| PL.41829 | PL.41775 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.00 | 4.41 | 0.72 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 15.412 | 0.058 | 0 | 0 | 0 | 1 |
| PL.42396 | PL.41829 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.00 | 4.41 | 0.72 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 15.433 | 0.021 | 0 | 0 | 0 | 1 |
| PL.42397 | PL.42396 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.00 | 4.41 | 0.72 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 15.493 | 0.060 | 0 | 0 | 0 | 1 |
| PL.42398 | PL.42397 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.00 | 4.41 | 0.72 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 15.527 | 0.034 | 0 | 0 | 0 | 1 |
| PL.42399 | PL.42398 | C | 6 A (CWC) | 7.24Y | 120.6 | 0.00 | 4.41 | 0.72 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 15.560 | 0.034 | 5 | 1 | 1 | 1 |
| PL.42386 | PL.41829 | C | #4 ACSR | 7.24Y | 120.6 | 0.00 | 4.41 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 15.457 | 0.045 | 0 | 0 | 0 | 0 |
| PL.42387 | PL.42386 | C | #4 ACSR | 7.24Y | 120.6 | 0.00 | 4.41 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 15.502 | 0.045 | 0 | 0 | 0 | 0 |
| PL.41350 | PL.42390 | C | #4 ACSR | 7.24Y | 120.7 | 0.00 | 4.34 | 0.64 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 15.114 | 0.063 | 4 | 1 | 1 | 1 |
| PL.61137 | PL.61139 | C | 6 A (CWC) | 7.24Y | 120.7 | 0.01 | 4.30 | 2.77 | 2 | 19 | 5 | 97 | 0.00 | 0.0 | 14.972 | 0.108 | 11 | 3 | 2 | 4 |
| PL.42392 | PL.61137 | C | 6 A (CWC) | 7.24Y | 120.7 | 0.00 | 4.30 | 1.20 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 14.986 | 0.014 | 0 | 0 | 0 | 2 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.41312 | PL.42392 | C | #4 ACSR | 7.24Y | 120.7 | 0.00 | 4.30 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 15.148 | 0.163 | 0 | 0 | 0 | 0 |
| PL.42393 | PL.42392 | C | 6 A (CWC) | 7.24Y | 120.7 | 0.00 | 4.30 | 1.20 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 15.062 | 0.076 | 0 | 0 | 0 | 2 |
| PL.42394 | PL.42393 | C | 6 A (CWC) | 7.24Y | 120.7 | 0.00 | 4.30 | 1.20 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 15.130 | 0.068 | 8 | 2 | 1 | 2 |
| PL.42395 | PL.42394 | C | 6 A (CWC) | 7.24Y | 120.7 | 0.00 | 4.30 | 0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 15.278 | 0.148 | 0 | 0 | 1 | 1 |
| PL.41798 | PL.42218 | C | #4 ACSR | 7.30Y | 121.6 | 0.00 | 3.38 | 0.52 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 13.521 | 0.038 | 4 | 1 | 1 | 1 |
| PL.41799 | PL.41798 | C | #4 ACSR | 7.30Y | 121.6 | 0.00 | 3.38 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 13.593 | 0.072 | 0 | 0 | 0 | 0 |
| PL.41282 | PL.41281 | C | #4 ACSR | 7.32Y | 121.9 | 0.00 | 3.06 | 1.43 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 13.107 | 0.057 | 6 | 2 | 1 | 2 |
| PL.41283 | PL.41282 | C | #4 ACSR | 7.32Y | 121.9 | 0.00 | 3.06 | 0.61 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 13.138 | 0.032 | 0 | 0 | 0 | 1 |
| PL.41284 | PL.41283 | C | #4 ACSR | 7.32Y | 121.9 | 0.00 | 3.07 | 0.61 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 13.286 | 0.148 | 0 | 0 | 0 | 1 |
| PL.41285 | PL.41284 | C | #4 ACSR | 7.32Y | 121.9 | 0.00 | 3.07 | 0.61 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 13.371 | 0.085 | 4 | 1 | 1 | 1 |
| PL.41730 | PL.61149 | C | 6 A (CWC) | 7.32Y | 122.0 | 0.00 | 2.99 | 1.67 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 12.999 | 0.038 | 0 | 0 | 0 | 2 |
| PL.41731 | PL.41730 | C | 6 A (CWC) | 7.32Y | 122.0 | 0.00 | 2.99 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 13.052 | 0.053 | 0 | 0 | 1 | 1 |
| PL.41279 | PL.41730 | C | #4 ACSR | 7.32Y | 122.0 | 0.00 | 2.99 | 1.67 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 13.039 | 0.039 | 12 | 3 | 1 | 1 |
| PL.61150 | PL.61152 | C | #4 ACSR | 7.33Y | 122.1 | 0.00 | 2.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.852 | 0.033 | 0 | 0 | 0 | 0 |
| PL.42376 | PL.66271 | A | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.68 | 1.56 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 12.320 | 0.006 | 0 | 0 | 0 | 8 |
| PD.6734 | PL.42376 | A | 40QA | 7.34Y | 122.3 | 0.00 | 2.68 | 1.56 | 4 | 11 | 3 | 96 | 0.00 | 0.0 | 12.320 | 0.006 | 0 | 0 | 0 | 8 |
| PL.42377 | PD.6734 | A | 6 A (CWC) | 7.34Y | 122.3 | 0.01 | 2.69 | 1.56 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 12.403 | 0.082 | 3 | 1 | 3 | 8 |
| PL.42378 | PL.42377 | A | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.69 | 1.12 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 12.433 | 0.030 | 8 | 2 | 5 | 5 |
| PL.42379 | PL.42378 | A | 6 A (CWC) | 7.34Y | 122.3 | 0.00 | 2.69 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.474 | 0.041 | 0 | 0 | 0 | 0 |
| PL.42373 | PL.42372 | C | #4 ACSR | 7.34Y | 122.4 | 0.00 | 2.64 | 2.75 | 2 | 19 | 5 | 97 | 0.00 | 0.0 | 12.169 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6414 | PL.42373 | C | 40QA | 7.34Y | 122.4 | 0.00 | 2.64 | 2.75 | 7 | 19 | 5 | 97 | 0.00 | 0.0 | 12.169 | 0.006 | 0 | 0 | 0 | 3 |
| PL.59348 | PD.6414 | C | #4 ACSR | 7.34Y | 122.3 | 0.01 | 2.65 | 2.75 | 2 | 19 | 5 | 97 | 0.00 | 0.0 | 12.286 | 0.116 | 16 | 4 | 1 | 3 |
| PL.59349 | PL.59348 | C | #4 ACSR | 7.34Y | 122.3 | 0.00 | 2.65 | 0.49 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 12.328 | 0.043 | 3 | 1 | 2 | 2 |
| PL.42363 | PL.42353 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.49 | 1.66 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 11.645 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6470 | PL.42363 | C | 40QA | 7.35Y | 122.5 | 0.00 | 2.49 | 1.66 | 4 | 12 | 3 | 97 | 0.00 | 0.0 | 11.645 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42364 | PD.6470 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.01 | 2.50 | 1.66 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 11.731 | 0.087 | 0 | 0 | 0 | 2 |
| PL.42365 | PL.42364 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.50 | 1.66 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 11.748 | 0.017 | 2 | 1 | 1 | 2 |
| PL.42366 | PL.42365 | C | 6 A (CWC) | 7.35Y | 122.5 | 0.00 | 2.50 | 1.35 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 11.838 | 0.090 | 10 | 3 | 1 | 1 |
| PL.42360 | PL.42352 | C | #4 ACSR | 7.35Y | 122.6 | 0.00 | 2.43 | 0.78 | 1 | 6 | 1 | 99 | 0.00 | 0.0 | 11.439 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6489 | PL.42360 | C | 40QA | 7.35Y | 122.6 | 0.00 | 2.43 | 0.78 | 2 | 6 | 1 | 99 | 0.00 | 0.0 | 11.439 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42361 | PD.6489 | C | #4 ACSR | 7.35Y | 122.6 | 0.00 | 2.43 | 0.78 | 1 | 6 | 1 | 99 | 0.00 | 0.0 | 11.526 | 0.087 | 3 | 1 | 1 | 2 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42362 | PL.42361 | C | #4 ACSR | 7.35Y | 122.6 | 0.00 | 2.43 | 0.42 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 11.631 | 0.104 | 3 | 1 | 1 | 1 |
| PL.42342 | PL.42341 | C | 6 A (CWC) | 7.36Y | 122.7 | 0.00 | 2.34 | 1.91 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 11.153 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6735 | PL.42342 | C | 40QA | 7.36Y | 122.7 | 0.00 | 2.34 | 1.91 | 5 | 14 | 4 | 96 | 0.00 | 0.0 | 11.153 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42343 | PD.6735 | C | 6 A (CWC) | 7.36Y | 122.7 | 0.00 | 2.34 | 1.91 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 11.219 | 0.066 | 4 | 1 | 1 | 2 |
| PL.42344 | PL.42343 | C | 6 A (CWC) | 7.36Y | 122.7 | 0.00 | 2.34 | 1.32 | 1 | 9 | 3 | 95 | 0.00 | 0.0 | 11.305 | 0.085 | 9 | 3 | 1 | 1 |
| PL.61169 | PL.42340 | B | #1/0 ACSR | 7.36Y | 122.7 | 0.00 | 2.30 | 0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.074 | 0.032 | 0 | 0 | 1 | 1 |
| PL.41422 | PL.41421 | A | 6 A (CWC) | 7.37Y | 122.9 | 0.01 | 2.13 | 52.27 | 37 | 363 | 130 | 94 | 0.04 | 0.0 | 10.619 | 0.006 | 0 | 0 | 0 | 20 |
| PD.6623 | PL.41422 | A | 100CodeSMo | 7.37Y | 122.9 | 0.00 | 2.13 | 52.27 | 0 | 363 | 130 | 94 | 0.00 | 0.0 | 10.619 | 0.006 | 0 | 0 | 0 | 20 |
| PL.41423 | PD.6623 | A | 6 A (CWC) | 7.37Y | 122.8 | 0.12 | 2.25 | 52.27 | 37 | 363 | 130 | 94 | 0.31 | 0.1 | 10.666 | 0.047 | 1 | 0 | 1 | 20 |
| PL.56535 | PL.41423 | A | #2 ACSR | 7.36Y | 122.7 | 0.00 | 2.25 | 1.05 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 10.739 | 0.073 | 0 | 0 | 0 | 3 |
| PL.56536 | PL.56535 | A | #2 ACSR | 7.36Y | 122.7 | 0.00 | 2.25 | 1.05 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 10.779 | 0.040 | 1 | 0 | 1 | 3 |
| PL.56534 | PL.56536 | A | #2 ACSR | 7.36Y | 122.7 | 0.00 | 2.25 | 0.84 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 10.820 | 0.042 | 3 | 1 | 1 | 2 |
| PL.41424 | PL.56534 | A | #2 ACSR | 7.36Y | 122.7 | 0.00 | 2.25 | 0.49 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 10.870 | 0.050 | 3 | 1 | 1 | 1 |
| PL.62039 | PL.41423 | A | #1/0 ACSR | 7.37Y | 122.8 | 0.00 | 2.25 | 0.05 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.689 | 0.023 | 0 | 0 | 1 | 1 |
| PL.41425 | PL.41423 | A | 6 A (CWC) | 7.35Y | 122.5 | 0.20 | 2.45 | 51.08 | 36 | 354 | 127 | 94 | 0.53 | 0.2 | 10.751 | 0.085 | 4 | 1 | 1 | 15 |
| PL.41426 | PL.41425 | A | 6 A (CWC) | 7.34Y | 122.4 | 0.15 | 2.60 | 50.52 | 36 | 350 | 126 | 94 | 0.40 | 0.1 | 10.817 | 0.067 | 14 | 4 | 1 | 14 |
| PL.41427 | PL.41426 | A | 6 A (CWC) | 7.33Y | 122.2 | 0.23 | 2.84 | 47.85 | 34 | 330 | 120 | 94 | 0.58 | 0.2 | 10.924 | 0.106 | 7 | 2 | 1 | 12 |
| PL.41691 | PL.41427 | A | #4 ACSR | 7.33Y | 122.2 | 0.00 | 2.84 | 1.40 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 11.004 | 0.080 | 0 | 0 | 0 | 1 |
| PL.57892 | PL.41691 | A | #1/0 ACSR | 7.33Y | 122.2 | 0.00 | 2.85 | 1.40 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 11.053 | 0.050 | 10 | 3 | 1 | 1 |
| PL.41428 | PL.41427 | A | 6 A (CWC) | 7.32Y | 122.0 | 0.13 | 2.97 | 45.47 | 32 | 313 | 116 | 94 | 0.32 | 0.1 | 10.986 | 0.063 | 0 | 0 | 0 | 10 |
| PL.41507 | PL.41428 | A | #4 ACSR | 7.31Y | 121.8 | 0.25 | 3.22 | 44.64 | 34 | 306 | 114 | 94 | 0.58 | 0.2 | 11.108 | 0.122 | 0 | 0 | 0 | 7 |
| PL.59670 | PL.41507 | A | #4 ACSR | 7.26Y | 121.0 | 0.74 | 3.96 | 44.32 | 34 | 304 | 113 | 94 | 1.72 | 0.6 | 11.477 | 0.369 | 4 | 1 | 1 | 6 |
| PL.59669 | PL.59670 | A | #4 ACSR | 7.26Y | 120.9 | 0.11 | 4.06 | 43.79 | 34 | 298 | 111 | 94 | 0.24 | 0.1 | 11.530 | 0.053 | 0 | 0 | 0 | 5 |
| PL.59671 | PL.59669 | A | 2 AL URD | 7.26Y | 120.9 | 0.00 | 4.07 | 43.79 | 25 | 298 | 111 | 94 | 0.01 | 0.0 | 11.532 | 0.003 | 0 | 0 | 0 | 5 |
| C PD.8825 | PL.59671 | A | 25QA | 7.26Y | 120.9 | 0.00 | 4.07 | 43.79 | 175 | 298 | 111 | 94 | 0.00 | 0.0 | 11.532 | 0.003 | 0 | 0 | 0 | 5 C |
| PL.63488 | PD.8825 | A | 2 AL URD | 7.23Y | 120.5 | 0.45 | 4.52 | 43.79 | 25 | 298 | 111 | 94 | 0.75 | 0.3 | 11.945 | 0.413 | 198 | 96 | 0 | 5 |
| PL.63487 | PL.63488 | A | 1/0 AL URD | 7.21Y | 120.2 | 0.24 | 4.76 | 12.94 | 8 | 91 | 21 | 97 | 0.18 | 0.2 | 12.544 | 0.599 | 0 | 0 | 0 | 3 |
| PL.42233 | PL.63487 | A | 1/0 AL URD | 7.21Y | 120.2 | 0.00 | 4.76 | 0.42 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 12.616 | 0.072 | 3 | 1 | 1 | 1 |
| PL.42134 | PL.63487 | A | 1/0 AL URD | 7.21Y | 120.2 | 0.01 | 4.77 | 12.59 | 7 | 88 | 23 | 97 | 0.01 | 0.0 | 12.566 | 0.022 | 0 | 0 | 0 | 2 |
| PL.42135 | PL.42134 | A | 1/0 AL URD | 7.21Y | 120.2 | 0.01 | 4.78 | 12.60 | 7 | 88 | 23 | 97 | 0.01 | 0.0 | 12.585 | 0.019 | 0 | 0 | 0 | 2 |
| PL.42234 | PL.42135 | A | 1/0 AL URD | 7.21Y | 120.2 | 0.00 | 4.78 | 4.20 | 2 | 29 | 8 | 96 | 0.00 | 0.0 | 12.612 | 0.027 | 29 | 8 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42136 | PL.42135 | A | 1/0 AL URD | 7.21Y | 120.2 | 0.03 | 4.80 | 8.40 | 5 | 59 | 15 | 97 | 0.01 | 0.0 | 12.778 | 0.194 | 59 | 16 | 1 | 1 |
| PL.63490 | PL.63488 | A | 1/0 AL URD | 7.23Y | 120.5 | 0.00 | 4.52 | 1.32 | 1 | 8 | -5 | -85 | 0.00 | 0.0 | 12.003 | 0.058 | 8 | 2 | 2 | 2 |
| PL.63491 | PL.63490 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.52 | -1.00 | 1 | 0 | -7 | 0 | 0.00 | 0.0 | 12.150 | 0.147 | 0 | 0 | 0 | 0 |
| PD.9522 | PL.63491 | A | 100CodeSMo | 7.23Y | 120.5 | 0.00 | 4.52 | -0.92 | 0 | 0 | -7 | 0 | 0.00 | 0.0 | 12.150 | 0.147 | 0 | 0 | 0 | 0 |
| PL.63489 | PD.9522 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.92 | 1 | 0 | -7 | 0 | 0.00 | 0.0 | 12.360 | 0.210 | 0 | 0 | 0 | 0 |
| PD.9455 | PL.63489 | A | 100CodeSMo | 7.23Y | 120.5 | 0.00 | 4.51 | -0.81 | 0 | 0 | -6 | 0 | 0.00 | 0.0 | 12.360 | 0.210 | 0 | 0 | 0 | 0 |
| P PL.63023 | PD.9455 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.19 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 12.448 | 0.087 | 0 | 0 | 0 | 0 P |
| P PL.63024 | PL.63023 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.14 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 12.539 | 0.092 | 0 | 0 | 0 | 0 P |
| PD.9456 | PL.63024 | A | 100CodeSMo | 7.23Y | 120.5 | 0.00 | 4.51 | -0.09 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 12.539 | 0.092 | 0 | 0 | 0 | 0 |
| P PL.63025 | PD.9456 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.09 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 12.654 | 0.114 | 0 | 0 | 0 | 0 P |
| P PL.64222 | PL.63025 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.03 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.714 | 0.061 | 0 | 0 | 0 | 0 P |
| PL.63029 | PD.9455 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.46 | 0 | 0 | -3 | 0 | 0.00 | 0.0 | 12.444 | 0.084 | 0 | 0 | 0 | 0 |
| PL.63030 | PL.63029 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.42 | 0 | 0 | -3 | 0 | 0.00 | 0.0 | 12.480 | 0.036 | 0 | 0 | 0 | 0 |
| PD.9457 | PL.63030 | A | 100CodeSMo | 7.23Y | 120.5 | 0.00 | 4.51 | -0.40 | 0 | 0 | -3 | 0 | 0.00 | 0.0 | 12.480 | 0.036 | 0 | 0 | 0 | 0 |
| PL.63031 | PD.9457 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.40 | 0 | 0 | -3 | 0 | 0.00 | 0.0 | 12.535 | 0.055 | 0 | 0 | 0 | 0 |
| PL.63032 | PL.63031 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.37 | 0 | 0 | -3 | 0 | 0.00 | 0.0 | 12.579 | 0.044 | 0 | 0 | 0 | 0 |
| PL.63033 | PL.63032 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.35 | 0 | 0 | -3 | 0 | 0.00 | 0.0 | 12.668 | 0.089 | 0 | 0 | 0 | 0 |
| PL.63034 | PL.63033 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.30 | 0 | 0 | -2 | 0 | 0.00 | 0.0 | 12.763 | 0.095 | 0 | 0 | 0 | 0 |
| P PL.63941 | PL.63034 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.06 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.827 | 0.063 | 0 | 0 | 0 | 0 P |
| P PL.63942 | PL.63941 | A | 1/0 AL URD | 7.23Y | 120.5 | 0.00 | 4.51 | -0.03 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.878 | 0.052 | 0 | 0 | 0 | 0 P |
| P PL.63022 | PL.63034 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.19 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 12.787 | 0.024 | 0 | 0 | 0 | 0 P |
| PD.9458 | PL.63022 | A | 100CodeSMo | 7.23Y | 120.5 | 0.00 | 4.51 | -0.18 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 12.787 | 0.024 | 0 | 0 | 0 | 0 |
| P PL.62732 | PD.9458 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.14 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 12.889 | 0.102 | 0 | 0 | 0 | 0 P |
| P PL.63936 | PL.62732 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.03 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.949 | 0.060 | 0 | 0 | 0 | 0 P |
| P PL.63937 | PL.62732 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.05 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.944 | 0.054 | 0 | 0 | 0 | 0 P |
| P PL.63938 | PL.63937 | A | 1/0 AL URD | 7.23Y | 120.5 | 0.00 | 4.51 | -0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.985 | 0.041 | 0 | 0 | 0 | 0 P |
| P PL.63939 | PD.9458 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.04 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.827 | 0.040 | 0 | 0 | 0 | 0 P |
| P PL.63940 | PL.63939 | A | 1/0 AL URD | 7.23Y | 120.5 | 0.00 | 4.51 | -0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.873 | 0.046 | 0 | 0 | 0 | 0 P |
| P PL.63026 | PD.9455 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.16 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 12.388 | 0.028 | 0 | 0 | 0 | 0 P |
| P PL.63027 | PL.63026 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.14 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 12.442 | 0.054 | 0 | 0 | 0 | 0 P |
| P PL.63028 | PL.63027 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.12 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 12.513 | 0.071 | 0 | 0 | 0 | 0 P |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| P PL.64220 | PL.63028 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.08 | 0 | 0 | -1 | 0 | 0.00 | 0.0 | 12.585 | 0.072 | 0 | 0 | 0 | 0 P |
| P PL.64221 | PL.64220 | A | 1/0 AL URD | 7.23Y | 120.5 | -0.00 | 4.51 | -0.04 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.662 | 0.077 | 0 | 0 | 0 | 0 P |
| PL.41557 | PL.41507 | A | #4 ACSR | 7.31Y | 121.8 | 0.00 | 3.22 | 0.32 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 11.277 | 0.168 | 2 | 1 | 1 | 1 |
| PL.41429 | PL.41428 | A | #4 ACSR | 7.32Y | 122.0 | 0.00 | 2.97 | 0.79 | 1 | 6 | 1 | 99 | 0.00 | 0.0 | 11.028 | 0.041 | 6 | 1 | 1 | 1 |
| PL.41430 | PL.41429 | A | #4 ACSR | 7.32Y | 122.0 | 0.00 | 2.97 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.047 | 0.020 | 0 | 0 | 0 | 0 |
| PL.41506 | PL.41430 | A | #4 ACSR | 7.32Y | 122.0 | 0.00 | 2.97 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.215 | 0.167 | 0 | 0 | 0 | 0 |
| PL.57557 | PL.41428 | A | #4 ACSR | 7.32Y | 122.0 | 0.00 | 2.97 | 0.05 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.109 | 0.123 | 0 | 0 | 0 | 2 |
| PL.57559 | PL.57557 | A | #4 ACSR | 7.32Y | 122.0 | 0.00 | 2.97 | 0.05 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.161 | 0.052 | 0 | 0 | 0 | 2 |
| PL.59273 | PL.57559 | A | #1/0 ACSR | 7.32Y | 122.0 | 0.00 | 2.97 | 0.05 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.208 | 0.047 | 0 | 0 | 2 | 2 |
| PL.57558 | PL.57557 | A | #4 ACSR | 7.32Y | 122.0 | 0.00 | 2.97 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.216 | 0.107 | 0 | 0 | 0 | 0 |
| PL.41552 | PL.57558 | A | #4 ACSR | 7.32Y | 122.0 | 0.00 | 2.97 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.421 | 0.205 | 0 | 0 | 0 | 0 |
| PL.41508 | PL.57558 | A | #4 ACSR | 7.32Y | 122.0 | 0.00 | 2.97 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.280 | 0.064 | 0 | 0 | 0 | 0 |
| PL.41456 | PL.41426 | A | 6 A (CWC) | 7.34Y | 122.4 | 0.00 | 2.61 | 0.65 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 10.910 | 0.093 | 5 | 1 | 1 | 1 |
| PL.62233 | PL.42006 | A | 6 A (CWC) | 7.38Y | 123.0 | 0.00 | 2.01 | 1.37 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 10.531 | 0.061 | 10 | 3 | 2 | 2 |
| PL.42137 | PL.41402 | A | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.287 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6802 | PL.42137 | A | 35L | 7.39Y | 123.1 | 0.00 | 1.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.287 | 0.006 | 0 | 0 | 0 | 0 |
| PL.42138 | PD.6802 | A | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.404 | 2.118 | 0 | 0 | 0 | 0 |
| PL.42139 | PL.42138 | A | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.537 | 0.133 | 0 | 0 | 0 | 0 |
| PL.42140 | PL.42139 | A | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.844 | 0.306 | 0 | 0 | 0 | 0 |
| PL.41755 | PL.42140 | A | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.875 | 0.031 | 0 | 0 | 0 | 0 |
| PL.42141 | PL.42140 | A | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.896 | 0.052 | 0 | 0 | 0 | 0 |
| PL.42142 | PL.42141 | A | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.983 | 0.087 | 0 | 0 | 0 | 0 |
| PL.41307 | PL.42139 | A | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 12.628 | 0.090 | 0 | 0 | 0 | 0 |
| PL.41904 | PL.41402 | B | 6 A (CWC) | 7.39Y | 123.1 | 0.00 | 1.86 | 2.05 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 10.287 | 0.006 | 0 | 0 | 0 | 5 |
| PD.6589 | PL.41904 | B | 50QA | 7.39Y | 123.1 | 0.00 | 1.86 | 2.05 | 4 | 15 | 4 | 97 | 0.00 | 0.0 | 10.287 | 0.006 | 0 | 0 | 0 | 5 |
| PL.41905 | PD.6589 | B | 6 A (CWC) | 7.39Y | 123.1 | 0.00 | 1.86 | 2.05 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 10.303 | 0.016 | 0 | 0 | 0 | 5 |
| PL.56538 | PL.41905 | B | 6 A (CWC) | 7.39Y | 123.1 | 0.00 | 1.87 | 2.05 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 10.348 | 0.045 | 0 | 0 | 0 | 5 |
| PL.56539 | PL.56538 | B | 6 A (CWC) | 7.39Y | 123.1 | 0.01 | 1.88 | 2.05 | 1 | 15 | 4 | 97 | 0.00 | 0.0 | 10.497 | 0.150 | 0 | 0 | 0 | 5 |
| PL.41906 | PL.56539 | B | 6 A (CWC) | 7.39Y | 123.1 | 0.00 | 1.88 | 0.62 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 10.600 | 0.103 | 2 | 0 | 1 | 2 |
| PL.41907 | PL.41906 | B | 6 A (CWC) | 7.39Y | 123.1 | 0.00 | 1.89 | 0.37 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 10.699 | 0.100 | 0 | 0 | 0 | 1 |
| PL.41908 | PL.41907 | B | 6 A (CWC) | 7.39Y | 123.1 | 0.00 | 1.89 | 0.37 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 10.800 | 0.100 | 3 | 1 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.41909 | PL.56539 | B | 6 A (CWC) | 7.39Y | 123.1 | 0.01 | 1.89 | 1.42 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 10.608 | 0.111 | 0 | 0 | 0 | 3 |
| PL.41910 | PL.41909 | B | 6 A (CWC) | 7.39Y | 123.1 | 0.00 | 1.89 | 0.83 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 10.719 | 0.111 | 6 | 2 | 2 | 2 |
| PL.41911 | PL.41910 | B | 6 A (CWC) | 7.39Y | 123.1 | 0.00 | 1.89 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.032 | 0.314 | 0 | 0 | 0 | 0 |
| PL.41912 | PL.41911 | B | 6 A (CWC) | 7.39Y | 123.1 | 0.00 | 1.89 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 11.061 | 0.028 | 0 | 0 | 0 | 0 |
| PL.41684 | PL.41909 | B | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.89 | 0.59 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 10.688 | 0.080 | 4 | 1 | 1 | 1 |
| PL.56537 | PL.56538 | B | #4 ACSR | 7.39Y | 123.1 | 0.00 | 1.87 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 10.463 | 0.115 | 0 | 0 | 0 | 0 |
| L PL.41734 | PL.61158 | ABC | #3/0 ACSR | 6.99Y | 116.6 | 0.00 | 8.44 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 8.341 | 0.060 | 0 | 0 | 0 | 0 L |
| L PL.41526 | PL.61158 | B | 6 A (CWC) | 6.99Y | 116.6 | 0.00 | 8.44 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 8.639 | 0.358 | 0 | 0 | 0 | 0 L |
| L PL.41527 | PL.41526 | B | 6 A (CWC) | 6.99Y | 116.6 | 0.00 | 8.44 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 8.706 | 0.067 | 0 | 0 | 0 | 0 L |
| L PL.41703 | PL.41527 | B | 6 A (CWC) | 6.99Y | 116.6 | 0.00 | 8.44 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 8.744 | 0.039 | 0 | 0 | 0 | 0 L |
| L PL.41528 | PL.41527 | B | 6 A (CWC) | 6.99Y | 116.6 | 0.00 | 8.44 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 9.089 | 0.384 | 0 | 0 | 0 | 0 L |
| PL.62807 | PL.62806 | B | 6 A (CWC) | 7.09Y | 118.1 | 0.00 | 6.85 | 4.68 | 3 | 32 | 9 | 96 | 0.00 | 0.0 | 5.809 | 0.006 | 0 | 0 | 0 | 6 |
| PD.6694 | PL.62807 | B | 50QA | 7.09Y | 118.1 | 0.00 | 6.85 | 4.68 | 9 | 32 | 9 | 96 | 0.00 | 0.0 | 5.809 | 0.006 | 0 | 0 | 0 | 6 |
| PL.42326 | PD.6694 | B | 6 A (CWC) | 7.09Y | 118.1 | 0.04 | 6.89 | 4.68 | 3 | 32 | 9 | 96 | 0.01 | 0.0 | 6.009 | 0.200 | 2 | 1 | 1 | 6 |
| PL.42327 | PL.42326 | B | 6 A (CWC) | 7.09Y | 118.1 | 0.00 | 6.90 | 3.36 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 6.036 | 0.027 | 0 | 0 | 0 | 4 |
| PL.42131 | PL.42327 | B | #4 ACSR | 7.09Y | 118.1 | 0.00 | 6.90 | 0.36 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 6.075 | 0.039 | 0 | 0 | 0 | 1 |
| PL.42132 | PL.42131 | B | #4 ACSR | 7.09Y | 118.1 | 0.00 | 6.90 | 0.36 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 6.142 | 0.067 | 2 | 1 | 1 | 1 |
| PL.42133 | PL.42327 | B | 6 A (CWC) | 7.09Y | 118.1 | 0.01 | 6.91 | 3.00 | 2 | 21 | 5 | 97 | 0.00 | 0.0 | 6.091 | 0.055 | 0 | 0 | 0 | 3 |
| PL.41357 | PL.42133 | B | #4 ACSR | 7.09Y | 118.1 | 0.00 | 6.91 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.152 | 0.062 | 0 | 0 | 0 | 0 |
| PL.64677 | PL.42133 | B | 6 A (CWC) | 7.08Y | 118.1 | 0.02 | 6.92 | 3.00 | 2 | 21 | 5 | 97 | 0.00 | 0.0 | 6.210 | 0.119 | 0 | 0 | 0 | 3 |
| PL.64678 | PL.64677 | B | #1/0 ACSR | 7.08Y | 118.1 | 0.00 | 6.92 | 3.00 | 1 | 21 | 5 | 97 | 0.00 | 0.0 | 6.249 | 0.039 | 12 | 3 | 1 | 3 |
| PL.64679 | PL.64678 | B | #1/0 ACSR | 7.08Y | 118.1 | 0.00 | 6.93 | 1.26 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 6.288 | 0.039 | 0 | 0 | 0 | 2 |
| PL.64680 | PL.64679 | B | #1/0 ACSR | 7.08Y | 118.1 | 0.00 | 6.93 | 1.26 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 6.309 | 0.021 | 0 | 0 | 0 | 2 |
| PL.64316 | PL.64680 | B | #4 ACSR | 7.08Y | 118.1 | 0.00 | 6.93 | 0.49 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 6.407 | 0.098 | 3 | 1 | 1 | 1 |
| PL.64317 | PL.64316 | B | #4 ACSR | 7.08Y | 118.1 | 0.00 | 6.93 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.495 | 0.087 | 0 | 0 | 0 | 0 |
| PL.62028 | PL.64680 | B | #1/0 ACSR | 7.08Y | 118.1 | 0.00 | 6.93 | 0.77 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 6.311 | 0.002 | 0 | 0 | 0 | 1 |
| PD.9307 | PL.62028 | B | 10T | 7.08Y | 118.1 | 0.00 | 6.93 | 0.77 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 6.311 | 0.002 | 0 | 0 | 0 | 1 |
| PL.62029 | PD.9307 | B | #1/0 ACSR | 7.08Y | 118.1 | 0.00 | 6.93 | 0.77 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 6.375 | 0.064 | 5 | 1 | 1 | 1 |
| PL.41496 | PL.42326 | B | 6 A (CWC) | 7.09Y | 118.1 | 0.00 | 6.90 | 1.02 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 6.053 | 0.045 | 7 | 2 | 1 | 1 |
| PL.41315 | PL.62013 | C | 6 A (CWC) | 7.10Y | 118.3 | 0.08 | 6.70 | 18.48 | 13 | 127 | 34 | 97 | 0.08 | 0.1 | 5.550 | 0.100 | 3 | 1 | 1 | 15 |
| PL.41558 | PL.41315 | C | 6 A (CWC) | 7.10Y | 118.3 | 0.04 | 6.74 | 18.08 | 13 | 124 | 33 | 97 | 0.03 | 0.0 | 5.594 | 0.044 | 0 | 0 | 0 | 14 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.41559 | PL.41558 | C | 6 A (CWC) | 7.09Y | 118.1 | 0.11 | 6.85 | 18.08 | 13 | 124 | 33 | 97 | 0.11 | 0.1 | 5.732 | 0.138 | 0 | 0 | 0 | 14 |
| PL.41405 | PL.41559 | C | 6 A (CWC) | 7.09Y | 118.1 | 0.00 | 6.86 | 18.08 | 13 | 124 | 33 | 97 | 0.00 | 0.0 | 5.738 | 0.006 | 0 | 0 | 0 | 14 |
| PD.6801 | PL.41405 | C | 50L | 7.09Y | 118.1 | 0.00 | 6.86 | 18.08 | 36 | 124 | 33 | 97 | 0.00 | 0.0 | 5.738 | 0.006 | 0 | 0 | 0 | 14 |
| L PL.41406 | PD.6801 | C | 6 A (CWC) | 7.07Y | 117.8 | 0.35 | 7.21 | 18.08 | 13 | 124 | 33 | 97 | 0.31 | 0.3 | 6.218 | 0.480 | 28 | 8 | 2 | 14 L |
| L PL.41407 | PL.41406 | C | 6 A (CWC) | 7.06Y | 117.7 | 0.05 | 7.25 | 13.92 | 10 | 95 | 26 | 96 | 0.03 | 0.0 | 6.291 | 0.073 | 0 | 0 | 0 | 12 L |
| L PL.41408 | PL.41407 | C | 6 A (CWC) | 7.06Y | 117.7 | 0.00 | 7.26 | 10.19 | 7 | 70 | 19 | 97 | 0.00 | 0.0 | 6.297 | 0.006 | 0 | 0 | 0 | 7 L |
| L PD.6462 | PL.41408 | C | 40QA | 7.06Y | 117.7 | 0.00 | 7.26 | 10.19 | 25 | 70 | 19 | 97 | 0.00 | 0.0 | 6.297 | 0.006 | 0 | 0 | 0 | 7 L |
| L PL.41409 | PD.6462 | C | 6 A (CWC) | 7.06Y | 117.7 | 0.03 | 7.29 | 10.19 | 7 | 70 | 19 | 97 | 0.02 | 0.0 | 6.374 | 0.077 | 8 | 2 | 1 | 7 L |
| L PL.41411 | PL.41409 | C | 6 A (CWC) | 7.04Y | 117.3 | 0.45 | 7.74 | 9.04 | 6 | 62 | 17 | 96 | 0.21 | 0.3 | 7.561 | 1.187 | 9 | 3 | 1 | 6 L |
| L PL.41412 | PL.41411 | C | 6 A (CWC) | 7.04Y | 117.3 | 0.01 | 7.75 | 7.65 | 5 | 52 | 14 | 97 | 0.00 | 0.0 | 7.583 | 0.023 | 0 | 0 | 0 | 5 L |
| L PL.42318 | PL.41412 | C | 6 A (CWC) | 7.03Y | 117.2 | 0.02 | 7.77 | 4.25 | 3 | 29 | 8 | 96 | 0.00 | 0.0 | 7.671 | 0.087 | 0 | 0 | 0 | 2 L |
| L PL.41042 | PL.42318 | C | #4 ACSR | 7.03Y | 117.2 | 0.00 | 7.77 | 1.79 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 7.735 | 0.064 | 12 | 3 | 1 | 1 L |
| L PL.42319 | PL.42318 | C | 6 A (CWC) | 7.03Y | 117.2 | 0.01 | 7.77 | 2.46 | 2 | 17 | 4 | 97 | 0.00 | 0.0 | 7.785 | 0.115 | 17 | 4 | 1 | 1 L |
| L PL.41032 | PL.41412 | C | 6 A (CWC) | 7.03Y | 117.2 | 0.02 | 7.77 | 3.40 | 2 | 23 | 6 | 97 | 0.00 | 0.0 | 7.763 | 0.180 | 8 | 2 | 2 | 3 L |
| L PL.54760 | PL.41032 | C | 6 A (CWC) | 7.03Y | 117.2 | 0.00 | 7.78 | 2.23 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 7.808 | 0.045 | 0 | 0 | 0 | 1 L |
| L PL.54761 | PL.54760 | C | 6 A (CWC) | 7.03Y | 117.2 | 0.00 | 7.78 | 2.23 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 7.840 | 0.031 | 15 | 4 | 1 | 1 L |
| L PL.54046 | PL.54761 | C | 6 A (CWC) | 7.03Y | 117.2 | 0.00 | 7.78 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 7.877 | 0.038 | 0 | 0 | 0 | 0 L |
| L PL.41410 | PL.41407 | C | 6 A (CWC) | 7.06Y | 117.7 | 0.01 | 7.26 | 3.73 | 3 | 25 | 7 | 96 | 0.00 | 0.0 | 6.343 | 0.052 | 0 | 0 | 0 | 5 L |
| L PL.42320 | PL.41410 | C | 6 A (CWC) | 7.06Y | 117.7 | 0.05 | 7.31 | 3.73 | 3 | 25 | 7 | 96 | 0.01 | 0.0 | 6.659 | 0.317 | 6 | 2 | 1 | 5 L |
| L PL.42321 | PL.42320 | C | 6 A (CWC) | 7.06Y | 117.7 | 0.01 | 7.32 | 2.89 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 6.718 | 0.058 | 0 | 0 | 0 | 4 L |
| L PL.41860 | PL.42321 | C | #2 ACSR | 7.06Y | 117.7 | 0.00 | 7.32 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.803 | 0.085 | 0 | 0 | 0 | 0 L |
| L PL.42322 | PL.42321 | C | 6 A (CWC) | 7.06Y | 117.7 | 0.01 | 7.32 | 2.89 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 6.758 | 0.041 | 0 | 0 | 0 | 4 L |
| L PL.42323 | PL.42322 | C | 6 A (CWC) | 7.06Y | 117.7 | 0.00 | 7.32 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.880 | 0.122 | 0 | 0 | 0 | 0 L |
| L PL.42324 | PL.42322 | C | 6 A (CWC) | 7.06Y | 117.7 | 0.02 | 7.35 | 2.89 | 2 | 20 | 5 | 97 | 0.00 | 0.0 | 7.023 | 0.265 | 12 | 3 | 2 | 4 L |
| L PL.42325 | PL.42324 | C | 6 A (CWC) | 7.06Y | 117.7 | 0.00 | 7.35 | 1.12 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 7.078 | 0.055 | 8 | 2 | 2 | 2 L |
| PL.41663 | PL.41558 | C | #4 ACSR | 7.10Y | 118.3 | 0.00 | 6.74 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.697 | 0.103 | 0 | 0 | 0 | 0 |
| PL.62014 | PL.62019 | C | #4 ACSR | 7.11Y | 118.4 | 0.00 | 6.56 | 0.21 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 5.372 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6486 | PL.62014 | C | 50QA | 7.11Y | 118.4 | 0.00 | 6.56 | 0.21 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 5.372 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42185 | PD.6486 | C | #4 ACSR | 7.11Y | 118.4 | 0.00 | 6.56 | 0.21 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 5.419 | 0.047 | 1 | 0 | 1 | 1 |
| PL.62015 | PL.62019 | A | #1/0 ACSR | 7.11Y | 118.4 | 0.00 | 6.56 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.372 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6487 | PL.62015 | A | 50QA | 7.11Y | 118.4 | 0.00 | 6.56 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.372 | 0.006 | 0 | 0 | 0 | 0 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42186 | PD.6487 | A | #1/0 ACSR | 7.11Y | 118.4 | 0.00 | 6.56 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.447 | 0.075 | 0 | 0 | 0 | 0 |
| PL.62016 | PL.62019 | B | #4 ACSR | 7.11Y | 118.4 | 0.01 | 6.56 | 2.74 | 2 | 19 | 5 | 97 | 0.00 | 0.0 | 5.436 | 0.070 | 0 | 0 | 0 | 3 |
| PL.42187 | PL.62016 | B | #4 ACSR | 7.11Y | 118.4 | 0.01 | 6.58 | 1.96 | 2 | 13 | 4 | 96 | 0.00 | 0.0 | 5.606 | 0.170 | 0 | 0 | 0 | 2 |
| PL.42188 | PL.42187 | B | #4 ACSR | 7.10Y | 118.4 | 0.00 | 6.58 | 1.96 | 2 | 13 | 4 | 96 | 0.00 | 0.0 | 5.662 | 0.056 | 0 | 0 | 0 | 2 |
| PL.42189 | PL.42188 | B | #4 ACSR | 7.10Y | 118.4 | 0.00 | 6.59 | 1.96 | 2 | 13 | 4 | 96 | 0.00 | 0.0 | 5.721 | 0.060 | 13 | 4 | 2 | 2 |
| PL.41356 | PL.42187 | B | #4 ACSR | 7.11Y | 118.4 | 0.00 | 6.58 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.754 | 0.148 | 0 | 0 | 0 | 0 |
| PL.41865 | PL.62016 | B | #4 ACSR | 7.11Y | 118.4 | 0.00 | 6.56 | 0.78 | 1 | 5 | 1 | 98 | 0.00 | 0.0 | 5.484 | 0.049 | 5 | 1 | 1 | 1 |
| PL.62012 | PL.62017 | A | #4 ACSR | 7.11Y | 118.5 | 0.00 | 6.49 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.334 | 0.051 | 0 | 0 | 0 | 0 |
| PL.42181 | PL.62231 | A | 6 A (CWC) | 7.12Y | 118.7 | 0.00 | 6.25 | 0.82 | 1 | 6 | 2 | 95 | 0.00 | 0.0 | 4.998 | 0.028 | 2 | 1 | 1 | 2 |
| PL.41744 | PL.42181 | A | #4 ACSR | 7.12Y | 118.7 | 0.00 | 6.25 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.091 | 0.093 | 0 | 0 | 0 | 0 |
| PL.42182 | PL.42181 | A | 6 A (CWC) | 7.12Y | 118.7 | 0.00 | 6.25 | 0.46 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 5.046 | 0.048 | 3 | 1 | 1 | 1 |
| PL.62232 | PL.62230 | C | #1/0 ACSR | 7.14Y | 119.0 | 0.00 | 6.00 | 0.67 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 4.697 | 0.046 | 5 | 1 | 1 | 1 |
| PL.54054 | PL.54053 | B | #1/0 ACSR | 7.16Y | 119.3 | 0.00 | 5.71 | 1.84 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 4.305 | 0.016 | 0 | 0 | 0 | 2 |
| PD.8121 | PL.54054 | B | 40QA | 7.16Y | 119.3 | 0.00 | 5.71 | 1.84 | 5 | 13 | 3 | 97 | 0.00 | 0.0 | 4.305 | 0.016 | 0 | 0 | 0 | 2 |
| PL.54055 | PD.8121 | B | #1/0 ACSR | 7.16Y | 119.3 | 0.00 | 5.71 | 1.84 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 4.307 | 0.002 | 13 | 3 | 2 | 2 |
| PL.59383 | PL.41482 | C | #1/0 ACSR | 7.16Y | 119.4 | 0.00 | 5.64 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.253 | 0.044 | 0 | 0 | 0 | 0 |
| PL.41370 | PL.41369 | C | #4 ACSR | 7.17Y | 119.5 | 0.00 | 5.50 | 6.38 | 5 | 44 | 12 | 96 | 0.00 | 0.0 | 4.056 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6458 | PL.41370 | C | 50QA | 7.17Y | 119.5 | 0.00 | 5.50 | 6.38 | 13 | 44 | 12 | 96 | 0.00 | 0.0 | 4.056 | 0.006 | 0 | 0 | 0 | 3 |
| PL.41372 | PD.6458 | C | #4 ACSR | 7.17Y | 119.5 | 0.02 | 5.52 | 6.38 | 5 | 44 | 12 | 96 | 0.01 | 0.0 | 4.123 | 0.067 | 0 | 0 | 0 | 3 |
| PL.41373 | PL.41372 | C | #4 ACSR | 7.17Y | 119.5 | 0.02 | 5.54 | 6.38 | 5 | 44 | 12 | 96 | 0.01 | 0.0 | 4.215 | 0.092 | 11 | 3 | 1 | 3 |
| PL.41374 | PL.41373 | C | #4 ACSR | 7.17Y | 119.5 | 0.00 | 5.55 | 4.77 | 4 | 33 | 9 | 96 | 0.00 | 0.0 | 4.239 | 0.025 | 11 | 3 | 1 | 2 |
| PL.41375 | PL.41374 | C | #4 ACSR | 7.17Y | 119.4 | 0.01 | 5.55 | 3.24 | 2 | 22 | 6 | 96 | 0.00 | 0.0 | 4.319 | 0.079 | 22 | 6 | 1 | 1 |
| PL.53055 | PL.41819 | ABC | 336 MCM AC | 7.18Y | 119.6 | 0.01 | 5.37 | 59.87 | 12 | 1242 | 344 | 96 | 0.05 | 0.0 | 3.911 | 0.018 | 0 | 0 | 0 | 169 |
| PD.7988-A | PL.53055 | ABC | Closed | 7.18Y | 119.6 | 0.00 | 5.37 | 59.87 | 0 | 1242 | 344 | 96 | 0.00 | 0.0 | 3.911 | 0.018 | 0 | 0 | 0 | 169 |
| PD.7988-B | PD.7988-A | ABC | Closed | 7.18Y | 119.6 | 0.00 | 5.37 | 59.87 | 0 | 1242 | 344 | 96 | 0.00 | 0.0 | 3.911 | 0.018 | 0 | 0 | 0 | 169 |
| PL.53054 | PD.7988-B | ABC | 336 MCM AC | 7.18Y | 119.6 | 0.03 | 5.40 | 59.87 | 12 | 1242 | 344 | 96 | 0.20 | 0.0 | 3.979 | 0.067 | 0 | 0 | 0 | 169 |
| PL.41449 | PL.53054 | A | #1/0 ACSR | 7.18Y | 119.6 | 0.00 | 5.40 | 0.90 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 3.984 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6406 | PL.41449 | A | 40QA | 7.18Y | 119.6 | 0.00 | 5.40 | 0.90 | 2 | 6 | 2 | 95 | 0.00 | 0.0 | 3.984 | 0.006 | 0 | 0 | 0 | 1 |
| PL.41450 | PD.6406 | A | #1/0 ACSR | 7.18Y | 119.6 | 0.00 | 5.40 | 0.90 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 4.027 | 0.043 | 6 | 2 | 1 | 1 |
| PL.57751 | PL.53054 | ABC | 336 MCM AC | 7.17Y | 119.5 | 0.07 | 5.47 | 59.57 | 11 | 1236 | 342 | 96 | 0.46 | 0.0 | 4.134 | 0.155 | 14 | 7 | 2 | 168 |
| PL.57752 | PL.57751 | ABC | 336 MCM AC | 7.17Y | 119.5 | 0.02 | 5.50 | 58.83 | 11 | 1221 | 334 | 96 | 0.16 | 0.0 | 4.189 | 0.055 | 0 | 0 | 0 | 166 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.42419 | PL.57752 | ABC | 336 MCM AC | 7.17Y | 119.5 | 0.02 | 5.51 | 58.83 | 11 | 1221 | 334 | 96 | 0.10 | 0.0 | 4.224 | 0.035 | 0 | 0 | 0 | 166 |
| PL.42420 | PL.42419 | A | #1/0 ACSR | 7.17Y | 119.5 | 0.00 | 5.51 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.229 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6604 | PL.42420 | A | 40QA | 7.17Y | 119.5 | 0.00 | 5.51 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.229 | 0.006 | 0 | 0 | 0 | 0 |
| PL.42421 | PD.6604 | A | #1/0 ACSR | 7.17Y | 119.5 | 0.00 | 5.51 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.323 | 0.094 | 0 | 0 | 0 | 0 |
| PL.42422 | PL.42421 | A | #1/0 ACSR | 7.17Y | 119.5 | 0.00 | 5.51 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.690 | 0.367 | 0 | 0 | 0 | 0 |
| PL.64309 | PL.42419 | ABC | 336 MCM AC | 7.17Y | 119.5 | 0.02 | 5.53 | 58.83 | 11 | 1221 | 334 | 96 | 0.13 | 0.0 | 4.270 | 0.046 | 5 | 1 | 2 | 166 |
| PL.64312 | PL.64309 | ABC | 336 MCM AC | 7.16Y | 119.4 | 0.07 | 5.60 | 58.59 | 11 | 1215 | 332 | 96 | 0.45 | 0.0 | 4.424 | 0.154 | 0 | 0 | 0 | 164 |
| PL.66268 | PL.64312 | C | #1/0 ACSR | 7.16Y | 119.4 | 0.00 | 5.60 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.445 | 0.021 | 0 | 0 | 0 | 0 |
| PL.66269 | PL.66268 | C | #1/0 ACSR | 7.16Y | 119.4 | 0.00 | 5.60 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.445 | 0.000 | 0 | 0 | 0 | 0 |
| PL.64311 | PL.64312 | ABC | 336 MCM AC | 7.16Y | 119.4 | 0.02 | 5.62 | 58.59 | 11 | 1215 | 331 | 96 | 0.12 | 0.0 | 4.466 | 0.043 | 0 | 0 | 0 | 164 |
| PL.64310 | PL.64311 | ABC | 336 MCM AC | 7.16Y | 119.4 | 0.01 | 5.62 | 58.59 | 11 | 1215 | 331 | 96 | 0.05 | 0.0 | 4.486 | 0.019 | 3 | 1 | 2 | 164 |
| PL.42423 | PL.64310 | ABC | 336 MCM AC | 7.16Y | 119.3 | 0.04 | 5.67 | 58.42 | 11 | 1211 | 329 | 97 | 0.27 | 0.0 | 4.580 | 0.094 | 3 | 1 | 1 | 162 |
| PL.42424 | PL.42423 | ABC | #1/0 ACSR | 7.16Y | 119.3 | 0.00 | 5.67 | 8.21 | 4 | 170 | 46 | 97 | 0.00 | 0.0 | 4.586 | 0.006 | 0 | 0 | 0 | 26 |
| PD.6570 | PL.42424 | ABC | 20QA | 7.16Y | 119.3 | 0.00 | 5.67 | 8.21 | 41 | 170 | 46 | 97 | 0.00 | 0.0 | 4.586 | 0.006 | 0 | 0 | 0 | 26 |
| PL.42425 | PD.6570 | ABC | #1/0 ACSR | 7.16Y | 119.3 | 0.01 | 5.67 | 8.21 | 4 | 170 | 46 | 97 | 0.01 | 0.0 | 4.627 | 0.041 | 20 | 5 | 4 | 26 |
| PL.42429 | PL.42425 | A | #2 ACSR | 7.16Y | 119.3 | 0.01 | 5.68 | 2.72 | 2 | 19 | 5 | 97 | 0.00 | 0.0 | 4.693 | 0.066 | 0 | 0 | 0 | 2 |
| PL.41742 | PL.42429 | A | #2 ACSR | 7.16Y | 119.3 | 0.00 | 5.68 | 1.55 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 4.712 | 0.019 | 11 | 3 | 1 | 1 |
| PL.64089 | PL.42429 | A | #2 ACSR | 7.16Y | 119.3 | 0.00 | 5.68 | 1.17 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 4.736 | 0.044 | 0 | 0 | 0 | 1 |
| PL.64090 | PL.64089 | A | #2 ACSR | 7.16Y | 119.3 | 0.00 | 5.68 | 1.17 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 4.736 | 0.000 | 8 | 2 | 1 | 1 |
| PL.42430 | PL.42425 | ABC | #1/0 ACSR | 7.16Y | 119.3 | 0.01 | 5.68 | 6.33 | 3 | 131 | 35 | 97 | 0.01 | 0.0 | 4.689 | 0.063 | 9 | 2 | 1 | 20 |
| PL.66123 | PL.42430 | ABC | #1/0 ACSR | 7.16Y | 119.3 | 0.00 | 5.68 | 5.91 | 3 | 123 | 33 | 97 | 0.00 | 0.0 | 4.689 | 0.000 | 0 | 0 | 0 | 19 |
| PL.66124 | PL.66123 | ABC | #1/0 ACSR | 7.16Y | 119.3 | 0.00 | 5.68 | 5.91 | 3 | 123 | 33 | 97 | 0.00 | 0.0 | 4.733 | 0.044 | 24 | 6 | 1 | 19 |
| PL.61162 | PL.66124 | ABC | #1/0 ACSR | 7.16Y | 119.3 | 0.01 | 5.69 | 4.76 | 2 | 99 | 26 | 97 | 0.00 | 0.0 | 4.805 | 0.071 | 0 | 0 | 0 | 18 |
| PL.42431 | PL.61162 | A | #2 ACSR | 7.16Y | 119.3 | 0.00 | 5.69 | 1.35 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 4.810 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6571 | PL.42431 | A | 40QA | 7.16Y | 119.3 | 0.00 | 5.69 | 1.35 | 3 | 9 | 2 | 98 | 0.00 | 0.0 | 4.810 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42432 | PD.6571 | A | #2 ACSR | 7.16Y | 119.3 | 0.00 | 5.69 | 1.35 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 4.824 | 0.013 | 9 | 2 | 1 | 1 |
| PL.42433 | PL.61162 | ABC | #1/0 ACSR | 7.16Y | 119.3 | 0.00 | 5.69 | 4.31 | 2 | 89 | 24 | 97 | 0.00 | 0.0 | 4.848 | 0.044 | 5 | 1 | 1 | 17 |
| PL.42434 | PL.42433 | ABC | #1/0 ACSR | 7.16Y | 119.3 | 0.01 | 5.70 | 4.09 | 2 | 85 | 23 | 97 | 0.00 | 0.0 | 4.929 | 0.081 | 7 | 2 | 1 | 16 |
| PL.58689 | PL.42434 | ABC | #1/0 ACSR | 7.16Y | 119.3 | 0.01 | 5.70 | 3.76 | 2 | 78 | 21 | 97 | 0.00 | 0.0 | 5.005 | 0.077 | 0 | 0 | 0 | 15 |
| PL.58688 | PL.58689 | A | #4 ACSR | 7.16Y | 119.3 | 0.00 | 5.70 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.059 | 0.053 | 0 | 0 | 1 | 1 |
| PL.58690 | PL.58689 | A | 6 A (CWC) | 7.16Y | 119.3 | 0.01 | 5.71 | 0.50 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 5.234 | 0.228 | 0 | 0 | 0 | 2 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.42436 | PL.58690 | A | #4 ACSR | 7.16Y | 119.3 | 0.00 | 5.71 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.263 | 0.030 | 0 | 0 | 0 | 0 |
| PL.42437 | PL.42436 | A | #4 ACSR | 7.16Y | 119.3 | 0.00 | 5.71 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.304 | 0.041 | 0 | 0 | 0 | 0 |
| PL.42435 | PL.58690 | A | 6 A (CWC) | 7.16Y | 119.3 | 0.00 | 5.71 | 0.50 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 5.300 | 0.066 | 3 | 1 | 2 | 2 |
| PL.58691 | PL.58689 | A | 6 A (CWC) | 7.16Y | 119.3 | 0.00 | 5.70 | 10.79 | 8 | 75 | 20 | 97 | 0.00 | 0.0 | 5.009 | 0.004 | 0 | 0 | 0 | 12 |
| PD.8641 | PL.58691 | A | 30T | 7.16Y | 119.3 | 0.00 | 5.70 | 10.79 | 0 | 75 | 20 | 97 | 0.00 | 0.0 | 5.009 | 0.004 | 0 | 0 | 0 | 12 |
| PL.58692 | PD.8641 | A | 6 A (CWC) | 7.16Y | 119.3 | 0.02 | 5.73 | 10.79 | 8 | 75 | 20 | 97 | 0.01 | 0.0 | 5.056 | 0.047 | 0 | 0 | 0 | 12 |
| PL.41714 | PL.58692 | A | 6 A (CWC) | 7.15Y | 119.2 | 0.03 | 5.76 | 10.79 | 8 | 75 | 20 | 97 | 0.02 | 0.0 | 5.113 | 0.056 | 0 | 0 | 1 | 12 |
| PL.41890 | PL.41714 | A | #4 ACSR | 7.15Y | 119.2 | 0.00 | 5.76 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.143 | 0.030 | 0 | 0 | 0 | 0 |
| PL.41343 | PL.41714 | A | 6 A (CWC) | 7.15Y | 119.2 | 0.06 | 5.82 | 10.48 | 7 | 72 | 19 | 97 | 0.04 | 0.0 | 5.246 | 0.133 | 0 | 0 | 0 | 10 |
| PL.56052 | PL.41343 | A | 6 A (CWC) | 7.15Y | 119.1 | 0.04 | 5.86 | 10.48 | 7 | 72 | 19 | 97 | 0.02 | 0.0 | 5.323 | 0.077 | 4 | 1 | 1 | 10 |
| PL.56057 | PL.56052 | A | 6 A (CWC) | 7.14Y | 119.1 | 0.06 | 5.92 | 8.12 | 6 | 56 | 15 | 97 | 0.02 | 0.0 | 5.528 | 0.205 | 19 | 5 | 2 | 7 |
| PL.56058 | PL.56057 | A | 6 A (CWC) | 7.14Y | 119.1 | 0.01 | 5.93 | 5.43 | 4 | 37 | 10 | 97 | 0.00 | 0.0 | 5.563 | 0.035 | 0 | 0 | 0 | 5 |
| PL.41678 | PL.56058 | A | 6 A (CWC) | 7.14Y | 119.1 | 0.00 | 5.93 | 0.67 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 5.601 | 0.038 | 5 | 1 | 1 | 1 |
| PL.60845 | PL.56058 | A | 6 A (CWC) | 7.14Y | 119.1 | 0.01 | 5.94 | 4.76 | 3 | 33 | 9 | 96 | 0.00 | 0.0 | 5.628 | 0.065 | 0 | 0 | 0 | 4 |
| PL.60846 | PL.60845 | A | 6 A (CWC) | 7.14Y | 119.0 | 0.02 | 5.96 | 3.56 | 3 | 25 | 7 | 96 | 0.00 | 0.0 | 5.740 | 0.111 | 0 | 0 | 0 | 3 |
| PL.62247 | PL.60846 | A | 6 A (CWC) | 7.14Y | 119.0 | 0.00 | 5.96 | 3.56 | 3 | 25 | 7 | 96 | 0.00 | 0.0 | 5.785 | 0.045 | 16 | 4 | 2 | 3 |
| PL.62248 | PL.62247 | A | 6 A (CWC) | 7.14Y | 119.0 | 0.00 | 5.97 | 1.25 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 5.866 | 0.081 | 9 | 2 | 1 | 1 |
| PL.60847 | PL.60845 | A | #1/0 ACSR | 7.14Y | 119.1 | 0.00 | 5.94 | 1.20 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 5.685 | 0.057 | 8 | 2 | 1 | 1 |
| PL.56053 | PL.56052 | A | 6 A (CWC) | 7.15Y | 119.1 | 0.00 | 5.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.357 | 0.034 | 0 | 0 | 0 | 0 |
| PL.56054 | PL.56052 | A | #4 ACSR | 7.15Y | 119.1 | 0.00 | 5.86 | 1.75 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 5.384 | 0.062 | 7 | 2 | 1 | 2 |
| PL.56055 | PL.56054 | A | #4 ACSR | 7.15Y | 119.1 | 0.00 | 5.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.427 | 0.042 | 0 | 0 | 0 | 0 |
| PL.56056 | PL.56054 | A | #1/0 ACSR | 7.15Y | 119.1 | 0.00 | 5.86 | 0.79 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 5.398 | 0.013 | 5 | 1 | 1 | 1 |
| PL.41715 | PL.41714 | A | #2 ACSR | 7.15Y | 119.2 | 0.00 | 5.76 | 0.30 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 5.145 | 0.033 | 0 | 0 | 0 | 1 |
| PL.41342 | PL.41715 | A | #2 ACSR | 7.15Y | 119.2 | 0.00 | 5.76 | 0.30 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 5.233 | 0.087 | 2 | 1 | 1 | 1 |
| PL.41011 | PL.58692 | A | #4 ACSR | 7.16Y | 119.3 | 0.00 | 5.73 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.234 | 0.177 | 0 | 0 | 0 | 0 |
| PL.42031 | PL.42430 | C | #2 ACSR | 7.16Y | 119.3 | 0.00 | 5.68 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 4.750 | 0.061 | 0 | 0 | 0 | 0 |
| PL.63467 | PL.42423 | A | #2 ACSR | 7.16Y | 119.3 | 0.00 | 5.67 | 1.87 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 4.628 | 0.048 | 3 | 1 | 1 | 2 |
| PL.63468 | PL.63467 | A | #2 ACSR | 7.16Y | 119.3 | 0.00 | 5.67 | 1.48 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 4.668 | 0.041 | 10 | 3 | 1 | 1 |
| PL.42426 | PL.42423 | A | #4 ACSR | 7.16Y | 119.3 | 0.00 | 5.67 | 2.18 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 4.586 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6759 | PL.42426 | A | 60QA | 7.16Y | 119.3 | 0.00 | 5.67 | 2.18 | 4 | 15 | 4 | 97 | 0.00 | 0.0 | 4.586 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42427 | PD.6759 | A | #4 ACSR | 7.16Y | 119.3 | 0.00 | 5.67 | 2.18 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 4.605 | 0.020 | 6 | 2 | 1 | 2 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42428 | PL.42427 | A | #4 ACSR | 7.16Y | 119.3 | 0.00 | 5.67 | 1.25 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 4.631 | 0.026 | 9 | 2 | 1 | 1 |
| PL.42438 | PL.42423 | ABC | 336 MCM AC | 7.16Y | 119.3 | 0.03 | 5.69 | 48.71 | 9 | 1010 | 275 | 96 | 0.14 | 0.0 | 4.652 | 0.072 | 3 | 1 | 2 | 131 |
| PL.42439 | PL.42438 | ABC | 336 MCM AC | 7.16Y | 119.3 | 0.02 | 5.71 | 48.56 | 9 | 1006 | 274 | 96 | 0.10 | 0.0 | 4.700 | 0.048 | 0 | 0 | 0 | 129 |
| PL.42440 | PL.42439 | A | #2 ACSR | 7.16Y | 119.3 | 0.00 | 5.71 | 1.07 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 4.706 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6572 | PL.42440 | A | 25T | 7.16Y | 119.3 | 0.00 | 5.71 | 1.07 | 0 | 7 | 2 | 96 | 0.00 | 0.0 | 4.706 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42515 | PD.6572 | A | #2 ACSR | 7.16Y | 119.3 | 0.00 | 5.71 | 1.07 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 4.744 | 0.038 | 7 | 2 | 1 | 1 |
| PL.42516 | PL.42439 | ABC | 336 MCM AC | 7.15Y | 119.2 | 0.06 | 5.77 | 48.20 | 9 | 999 | 271 | 97 | 0.34 | 0.0 | 4.874 | 0.174 | 20 | 5 | 2 | 128 |
| PL.42519 | PL.42516 | ABC | 336 MCM AC | 7.15Y | 119.2 | 0.01 | 5.78 | 46.81 | 9 | 970 | 263 | 97 | 0.08 | 0.0 | 4.916 | 0.042 | 0 | 0 | 0 | 125 |
| PL.41622 | PL.42519 | ABC | 336 MCM AC | 7.15Y | 119.2 | 0.01 | 5.79 | 46.55 | 9 | 964 | 261 | 97 | 0.06 | 0.0 | 4.946 | 0.031 | 15 | 4 | 3 | 124 |
| PL.59306 | PL.41622 | ABC | 336 MCM AC | 7.15Y | 119.2 | 0.02 | 5.82 | 45.07 | 9 | 933 | 253 | 97 | 0.11 | 0.0 | 5.012 | 0.066 | 22 | 6 | 3 | 119 |
| PL.59308 | PL.59306 | C | #2 ACSR | 7.15Y | 119.2 | 0.00 | 5.82 | 3.13 | 2 | 22 | 6 | 96 | 0.00 | 0.0 | 5.016 | 0.004 | 0 | 0 | 0 | 3 |
| PD.8758 | PL.59308 | C | 40QA | 7.15Y | 119.2 | 0.00 | 5.82 | 3.13 | 8 | 22 | 6 | 96 | 0.00 | 0.0 | 5.016 | 0.004 | 0 | 0 | 0 | 3 |
| PL.59305 | PD.8758 | C | #2 ACSR | 7.15Y | 119.2 | 0.00 | 5.82 | 3.13 | 2 | 22 | 6 | 96 | 0.00 | 0.0 | 5.044 | 0.028 | 22 | 6 | 3 | 3 |
| PL.59307 | PL.59306 | ABC | 336 MCM AC | 7.15Y | 119.2 | 0.02 | 5.83 | 42.97 | 8 | 890 | 241 | 97 | 0.08 | 0.0 | 5.062 | 0.049 | 0 | 0 | 0 | 113 |
| PL.41626 | PL.59307 | ABC | 336 MCM AC | 7.15Y | 119.1 | 0.03 | 5.86 | 42.97 | 8 | 890 | 241 | 97 | 0.13 | 0.0 | 5.146 | 0.084 | 0 | 0 | 0 | 113 |
| PL.42521 | PL.41626 | ABC | 336 MCM AC | 7.15Y | 119.1 | 0.02 | 5.88 | 42.97 | 8 | 890 | 241 | 97 | 0.10 | 0.0 | 5.210 | 0.064 | 3 | 1 | 1 | 113 |
| PL.42522 | PL.42521 | A | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.88 | 1.05 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 5.216 | 0.006 | 0 | 0 | 0 | 3 |
| PD.6574 | PL.42522 | A | 40QA | 7.15Y | 119.1 | 0.00 | 5.88 | 1.05 | 3 | 7 | 2 | 96 | 0.00 | 0.0 | 5.216 | 0.006 | 0 | 0 | 0 | 3 |
| PL.54066 | PD.6574 | A | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.88 | 1.05 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 5.253 | 0.037 | 0 | 0 | 1 | 3 |
| PL.54067 | PL.54066 | A | #1/0 ACSR | 7.15Y | 119.1 | 0.00 | 5.88 | 0.33 | 0 | 2 | 1 | 89 | 0.00 | 0.0 | 5.308 | 0.055 | 2 | 1 | 1 | 1 |
| PL.54068 | PL.54066 | A | #1/0 ACSR | 7.15Y | 119.1 | 0.00 | 5.88 | 0.65 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 5.268 | 0.016 | 5 | 1 | 1 | 1 |
| PL.41539 | PL.42521 | A | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.88 | 1.00 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 5.261 | 0.051 | 7 | 2 | 1 | 1 |
| PL.42523 | PL.42521 | ABC | 336 MCM AC | 7.15Y | 119.1 | 0.02 | 5.90 | 42.15 | 8 | 872 | 236 | 97 | 0.10 | 0.0 | 5.277 | 0.066 | 0 | 0 | 0 | 108 |
| PL.42524 | PL.42523 | C | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.90 | 3.95 | 2 | 27 | 7 | 97 | 0.00 | 0.0 | 5.282 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6761 | PL.42524 | C | 40QA | 7.15Y | 119.1 | 0.00 | 5.90 | 3.95 | 10 | 27 | 7 | 97 | 0.00 | 0.0 | 5.282 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42525 | PD.6761 | C | #2 ACSR | 7.15Y | 119.1 | 0.01 | 5.91 | 3.95 | 2 | 27 | 7 | 97 | 0.00 | 0.0 | 5.415 | 0.133 | 11 | 3 | 1 | 2 |
| PL.42526 | PL.42525 | C | #2 ACSR | 7.14Y | 119.1 | 0.00 | 5.92 | 2.43 | 1 | 17 | 4 | 97 | 0.00 | 0.0 | 5.515 | 0.100 | 17 | 4 | 1 | 1 |
| PL.42527 | PL.42523 | ABC | 336 MCM AC | 7.15Y | 119.1 | 0.01 | 5.91 | 40.83 | 8 | 845 | 228 | 97 | 0.06 | 0.0 | 5.320 | 0.044 | 0 | 0 | 0 | 106 |
| PL.42528 | PL.42527 | A | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.91 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.326 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6605 | PL.42528 | A | 40QA | 7.15Y | 119.1 | 0.00 | 5.91 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.326 | 0.006 | 0 | 0 | 0 | 0 |
| PL.42529 | PD.6605 | A | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.91 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.354 | 0.028 | 0 | 0 | 0 | 0 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.42530 | PL.42527 | ABC | 336 MCM AC | 7.14Y | 119.0 | 0.07 | 5.99 | 40.83 | 8 | 845 | 228 | 97 | 0.35 | 0.0 | 5.568 | 0.247 | 0 | 0 | 0 | 106 |
| PL.54049 | PL.42530 | ABC | 336 MCM AC | 7.14Y | 119.0 | 0.01 | 6.00 | 40.71 | 8 | 842 | 227 | 97 | 0.07 | 0.0 | 5.616 | 0.049 | 10 | 3 | 1 | 105 |
| PL.54050 | PL.54049 | ABC | 336 MCM AC | 7.14Y | 119.0 | 0.02 | 6.02 | 40.23 | 8 | 832 | 224 | 97 | 0.10 | 0.0 | 5.694 | 0.077 | 33 | 9 | 4 | 104 |
| PL.54047 | PL.54050 | ABC | 336 MCM AC | 7.14Y | 119.0 | 0.02 | 6.04 | 38.63 | 7 | 799 | 215 | 97 | 0.07 | 0.0 | 5.750 | 0.056 | 11 | 3 | 1 | 100 |
| PL.54048 | PL.54047 | ABC | 336 MCM AC | 7.14Y | 119.0 | 0.01 | 6.05 | 38.11 | 7 | 788 | 212 | 97 | 0.04 | 0.0 | 5.781 | 0.031 | 0 | 0 | 0 | 99 |
| PL.41807 | PL.54048 | ABC | 336 MCM AC | 7.14Y | 118.9 | 0.01 | 6.06 | 37.18 | 7 | 769 | 207 | 97 | 0.06 | 0.0 | 5.831 | 0.050 | 9 | 2 | 1 | 97 |
| PL.41806 | PL.41807 | ABC | 336 MCM AC | 7.14Y | 118.9 | 0.01 | 6.07 | 36.75 | 7 | 760 | 204 | 97 | 0.05 | 0.0 | 5.879 | 0.048 | 0 | 0 | 0 | 96 |
| PL.41808 | PL.41806 | B | 6 A (CWC) | 7.13Y | 118.9 | 0.01 | 6.09 | 46.81 | 33 | 323 | 87 | 97 | 0.03 | 0.0 | 5.885 | 0.006 | 0 | 0 | 0 | 29 |
| C PD.6117 | PL.41808 | B | 60QA | 7.13Y | 118.9 | 0.00 | 6.09 | 46.81 | 78 | 323 | 87 | 97 | 0.00 | 0.0 | 5.885 | 0.006 | 0 | 0 | 0 | 29 C |
| PL.54059 | PD.6117 | B | 6 A (CWC) | 7.13Y | 118.9 | 0.06 | 6.15 | 46.81 | 33 | 323 | 87 | 97 | 0.15 | 0.0 | 5.913 | 0.028 | 0 | 0 | 0 | 29 |
| PL.59130 | PL.54059 | B | #4 ACSR | 7.13Y | 118.9 | 0.00 | 6.15 | 3.06 | 2 | 21 | 6 | 96 | 0.00 | 0.0 | 5.932 | 0.019 | 21 | 6 | 2 | 2 |
| PL.54060 | PL.54059 | B | 6 A (CWC) | 7.13Y | 118.8 | 0.01 | 6.15 | 38.21 | 27 | 263 | 71 | 97 | 0.01 | 0.0 | 5.916 | 0.003 | 0 | 0 | 0 | 26 |
| C PD.8122 | PL.54060 | B | 20QA | 7.13Y | 118.8 | 0.00 | 6.15 | 38.21 | 191 | 263 | 71 | 97 | 0.00 | 0.0 | 5.916 | 0.003 | 0 | 0 | 0 | 26 C |
| PL.64682 | PD.8122 | B | 6 A (CWC) | 7.13Y | 118.8 | 0.04 | 6.19 | 38.21 | 27 | 263 | 71 | 97 | 0.07 | 0.0 | 5.938 | 0.022 | 42 | 11 | 4 | 26 |
| PL.64683 | PL.64682 | B | 6 A (CWC) | 7.13Y | 118.8 | 0.05 | 6.24 | 28.06 | 20 | 193 | 52 | 97 | 0.07 | 0.0 | 5.975 | 0.038 | 0 | 0 | 0 | 20 |
| PL.64545 | PL.64683 | B | 6 A (CWC) | 7.12Y | 118.7 | 0.04 | 6.27 | 28.06 | 20 | 193 | 52 | 97 | 0.06 | 0.0 | 6.005 | 0.029 | 3 | 1 | 1 | 20 |
| PL.54016 | PL.64545 | B | 6 A (CWC) | 7.12Y | 118.6 | 0.10 | 6.38 | 27.62 | 20 | 190 | 51 | 97 | 0.15 | 0.1 | 6.093 | 0.088 | 24 | 6 | 3 | 19 |
| PL.53155 | PL.54016 | B | 6 A (CWC) | 7.11Y | 118.5 | 0.12 | 6.49 | 24.15 | 17 | 166 | 45 | 97 | 0.14 | 0.1 | 6.202 | 0.110 | 15 | 4 | 1 | 16 |
| PL.53157 | PL.53155 | B | 6 A (CWC) | 7.11Y | 118.4 | 0.08 | 6.58 | 22.00 | 16 | 151 | 40 | 97 | 0.10 | 0.1 | 6.289 | 0.087 | 12 | 3 | 1 | 15 |
| PL.53160 | PL.53157 | B | 6 A (CWC) | 7.10Y | 118.4 | 0.02 | 6.59 | 11.31 | 8 | 78 | 21 | 97 | 0.01 | 0.0 | 6.326 | 0.036 | 0 | 0 | 0 | 8 |
| PL.53161 | PL.53160 | B | 6 A (CWC) | 7.10Y | 118.4 | 0.05 | 6.64 | 10.24 | 7 | 70 | 19 | 97 | 0.03 | 0.0 | 6.428 | 0.102 | 3 | 1 | 1 | 7 |
| PL.53158 | PL.53161 | B | 6 A (CWC) | 7.10Y | 118.4 | 0.01 | 6.65 | 9.80 | 7 | 67 | 18 | 97 | 0.00 | 0.0 | 6.446 | 0.018 | 11 | 3 | 1 | 6 |
| PL.53159 | PL.53158 | B | 6 A (CWC) | 7.10Y | 118.3 | 0.03 | 6.68 | 8.15 | 6 | 56 | 15 | 97 | 0.01 | 0.0 | 6.523 | 0.077 | 0 | 0 | 0 | 5 |
| PL.41319 | PL.53159 | B | #1/0 ACSR | 7.10Y | 118.3 | 0.00 | 6.68 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.600 | 0.077 | 0 | 0 | 0 | 0 |
| PL.53028 | PL.53159 | B | #1/0 ACSR | 7.10Y | 118.3 | 0.00 | 6.68 | 4.19 | 2 | 29 | 8 | 96 | 0.00 | 0.0 | 6.564 | 0.041 | 13 | 3 | 1 | 2 |
| PL.53156 | PL.53028 | B | #1/0 ACSR | 7.10Y | 118.3 | 0.00 | 6.68 | 2.31 | 1 | 16 | 4 | 97 | 0.00 | 0.0 | 6.597 | 0.033 | 16 | 4 | 1 | 1 |
| PL.54056 | PL.53159 | B | 6 A (CWC) | 7.10Y | 118.3 | 0.01 | 6.68 | 3.95 | 3 | 27 | 7 | 97 | 0.00 | 0.0 | 6.570 | 0.047 | 13 | 3 | 1 | 3 |
| PL.54057 | PL.54056 | B | 6 A (CWC) | 7.10Y | 118.3 | 0.00 | 6.69 | 2.13 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 6.653 | 0.083 | 15 | 4 | 2 | 2 |
| PL.53154 | PL.53160 | B | 6 A (CWC) | 7.10Y | 118.4 | 0.00 | 6.59 | 1.06 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 6.347 | 0.021 | 7 | 2 | 1 | 1 |
| PL.53025 | PL.53157 | B | #4 ACSR | 7.11Y | 118.4 | 0.00 | 6.58 | 1.10 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 6.329 | 0.039 | 8 | 2 | 1 | 1 |
| PL.53026 | PL.53157 | B | 6 A (CWC) | 7.10Y | 118.4 | 0.02 | 6.60 | 7.84 | 6 | 54 | 14 | 97 | 0.01 | 0.0 | 6.357 | 0.068 | 0 | 0 | 1 | 5 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|----|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.53027 | PL.53026 | B | 6 A (CWC) | 7.10Y | 118.4 | 0.02 | 6.62 | 7.79 | 6 | 53 | 14 | 97 | 0.01 | 0.0 | 6.418 | 0.061 | 0 | 0 | 0 | 4 |
| PL.62040 | PL.53027 | B | 6 A (CWC) | 7.10Y | 118.4 | 0.00 | 6.63 | 7.56 | 5 | 52 | 14 | 97 | 0.00 | 0.0 | 6.439 | 0.021 | 39 | 11 | 2 | 3 |
| PL.62041 | PL.62040 | B | 6 A (CWC) | 7.10Y | 118.4 | 0.00 | 6.63 | 1.84 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 6.490 | 0.051 | 13 | 3 | 1 | 1 |
| PL.60844 | PL.53027 | B | 6 A (CWC) | 7.10Y | 118.4 | 0.00 | 6.62 | 0.23 | 0 | 2 | 0 | 100 | 0.00 | 0.0 | 6.515 | 0.097 | 2 | 0 | 1 | 1 |
| PL.64681 | PL.64682 | B | #4 ACSR | 7.13Y | 118.8 | 0.00 | 6.19 | 4.06 | 3 | 28 | 7 | 97 | 0.00 | 0.0 | 5.967 | 0.030 | 28 | 7 | 1 | 2 |
| PL.54014 | PL.64681 | B | #4 ACSR | 7.13Y | 118.8 | 0.00 | 6.19 | 0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.985 | 0.017 | 0 | 0 | 0 | 1 |
| PL.54015 | PL.54014 | B | #4 ACSR | 7.13Y | 118.8 | 0.00 | 6.19 | 0.02 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.015 | 0.031 | 0 | 0 | 1 | 1 |
| PL.54058 | PL.54059 | B | #4 ACSR | 7.13Y | 118.9 | 0.00 | 6.15 | 5.55 | 4 | 38 | 10 | 97 | 0.00 | 0.0 | 5.934 | 0.022 | 38 | 10 | 1 | 1 |
| PL.57494 | PL.41806 | C | 6 A (CWC) | 7.14Y | 118.9 | 0.01 | 6.08 | 38.64 | 28 | 266 | 72 | 97 | 0.01 | 0.0 | 5.883 | 0.003 | 0 | 0 | 0 | 43 |
| PD.8502 | PL.57494 | C | 40T | 7.14Y | 118.9 | 0.00 | 6.08 | 38.64 | 0 | 266 | 72 | 97 | 0.00 | 0.0 | 5.883 | 0.003 | 0 | 0 | 0 | 43 |
| PL.57495 | PD.8502 | C | 6 A (CWC) | 7.13Y | 118.8 | 0.09 | 6.17 | 38.64 | 28 | 266 | 72 | 97 | 0.18 | 0.1 | 5.940 | 0.057 | 37 | 10 | 5 | 43 |
| PL.57493 | PL.57495 | C | 6 A (CWC) | 7.12Y | 118.7 | 0.08 | 6.26 | 33.28 | 24 | 229 | 62 | 97 | 0.14 | 0.1 | 5.995 | 0.055 | 8 | 2 | 4 | 38 |
| PL.54061 | PL.57493 | C | 6 A (CWC) | 7.12Y | 118.6 | 0.11 | 6.36 | 25.80 | 18 | 178 | 48 | 97 | 0.15 | 0.1 | 6.088 | 0.094 | 9 | 2 | 1 | 27 |
| PL.41560 | PL.54061 | C | 6 A (CWC) | 7.11Y | 118.5 | 0.09 | 6.45 | 24.55 | 18 | 169 | 45 | 97 | 0.11 | 0.1 | 6.168 | 0.079 | 3 | 1 | 1 | 26 |
| PL.41854 | PL.41560 | C | #4 ACSR | 7.11Y | 118.5 | 0.00 | 6.46 | 1.87 | 1 | 13 | 3 | 97 | 0.00 | 0.0 | 6.251 | 0.084 | 13 | 3 | 1 | 1 |
| PL.41673 | PL.41560 | C | 6 A (CWC) | 7.11Y | 118.5 | 0.07 | 6.52 | 20.99 | 15 | 144 | 39 | 97 | 0.08 | 0.1 | 6.243 | 0.075 | 0 | 0 | 0 | 23 |
| PL.41387 | PL.41673 | C | #4 ACSR | 7.11Y | 118.5 | 0.00 | 6.53 | 1.18 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 6.312 | 0.070 | 8 | 2 | 1 | 1 |
| PL.41674 | PL.41673 | C | 6 A (CWC) | 7.11Y | 118.4 | 0.04 | 6.56 | 19.80 | 14 | 136 | 36 | 97 | 0.04 | 0.0 | 6.282 | 0.039 | 3 | 1 | 1 | 22 |
| PL.41610 | PL.41674 | C | 6 A (CWC) | 7.10Y | 118.4 | 0.06 | 6.62 | 19.30 | 14 | 132 | 36 | 96 | 0.06 | 0.0 | 6.349 | 0.067 | 11 | 3 | 3 | 21 |
| PL.41611 | PL.41610 | C | 6 A (CWC) | 7.10Y | 118.3 | 0.06 | 6.68 | 16.47 | 12 | 113 | 30 | 97 | 0.06 | 0.0 | 6.438 | 0.089 | 8 | 2 | 2 | 17 |
| PL.41612 | PL.41611 | C | 6 A (CWC) | 7.10Y | 118.3 | 0.03 | 6.71 | 13.26 | 9 | 91 | 24 | 97 | 0.02 | 0.0 | 6.482 | 0.044 | 8 | 2 | 2 | 14 |
| PL.41613 | PL.41612 | C | 6 A (CWC) | 7.10Y | 118.3 | 0.03 | 6.73 | 10.07 | 7 | 69 | 18 | 97 | 0.01 | 0.0 | 6.543 | 0.061 | 2 | 1 | 1 | 10 |
| PL.72989 | PL.41613 | C | 6 A (CWC) | 7.09Y | 118.2 | 0.03 | 6.77 | 8.38 | 6 | 57 | 15 | 97 | 0.02 | 0.0 | 6.631 | 0.088 | 0 | 0 | 0 | 8 |
| PD.11217 | PL.72989 | C | 20T | 7.09Y | 118.2 | 0.00 | 6.77 | 8.38 | 0 | 57 | 15 | 97 | 0.00 | 0.0 | 6.631 | 0.088 | 0 | 0 | 0 | 8 |
| PL.72990 | PD.11217 | C | 6 A (CWC) | 7.09Y | 118.2 | 0.01 | 6.78 | 8.38 | 6 | 57 | 15 | 97 | 0.00 | 0.0 | 6.661 | 0.029 | 10 | 3 | 1 | 8 |
| PL.41617 | PL.72990 | C | 6 A (CWC) | 7.09Y | 118.2 | 0.01 | 6.79 | 6.99 | 5 | 48 | 13 | 97 | 0.00 | 0.0 | 6.690 | 0.029 | 0 | 0 | 0 | 7 |
| PL.41571 | PL.41617 | C | #4 ACSR | 7.09Y | 118.2 | 0.00 | 6.79 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.750 | 0.060 | 0 | 0 | 0 | 0 |
| PL.41618 | PL.41617 | C | 6 A (CWC) | 7.09Y | 118.2 | 0.04 | 6.83 | 6.99 | 5 | 48 | 13 | 97 | 0.02 | 0.0 | 6.827 | 0.137 | 0 | 0 | 0 | 7 |
| PL.41606 | PL.41618 | C | 6 A (CWC) | 7.09Y | 118.2 | 0.00 | 6.84 | 1.47 | 1 | 10 | 3 | 96 | 0.00 | 0.0 | 6.975 | 0.148 | 10 | 3 | 2 | 2 |
| PL.41619 | PL.41618 | C | 6 A (CWC) | 7.09Y | 118.2 | 0.01 | 6.84 | 4.63 | 3 | 32 | 8 | 97 | 0.00 | 0.0 | 6.901 | 0.074 | 8 | 2 | 1 | 4 |
| PL.41620 | PL.41619 | C | 6 A (CWC) | 7.09Y | 118.1 | 0.03 | 6.87 | 3.46 | 2 | 24 | 6 | 97 | 0.00 | 0.0 | 7.099 | 0.197 | 8 | 2 | 1 | 3 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| ----- | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| ----- | | | | | | | | | | | | | | | | | | | | |
| PL.59366 | PL.41620 | C | #1/0 ACSR | 7.09Y | 118.1 | 0.00 | 6.87 | 1.20 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 7.141 | 0.043 | 8 | 2 | 1 | 1 |
| PL.41621 | PL.41620 | C | 6 A (CWC) | 7.09Y | 118.1 | 0.00 | 6.87 | 1.05 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 7.207 | 0.109 | 7 | 2 | 1 | 1 |
| PL.63533 | PL.41618 | C | #1/0 ACSR | 7.09Y | 118.2 | 0.00 | 6.83 | 0.89 | 0 | 6 | 2 | 95 | 0.00 | 0.0 | 6.893 | 0.066 | 6 | 2 | 1 | 1 |
| PL.41614 | PL.41613 | C | 6 A (CWC) | 7.10Y | 118.3 | 0.00 | 6.73 | 1.33 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 6.584 | 0.040 | 9 | 2 | 1 | 1 |
| PL.41615 | PL.41614 | C | 6 A (CWC) | 7.10Y | 118.3 | 0.00 | 6.73 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.642 | 0.058 | 0 | 0 | 0 | 0 |
| PL.72485 | PL.41612 | C | #2 ACSR | 7.10Y | 118.3 | 0.00 | 6.71 | 2.01 | 1 | 14 | 4 | 96 | 0.00 | 0.0 | 6.496 | 0.014 | 7 | 2 | 1 | 2 |
| PL.72486 | PL.72485 | C | #2 ACSR | 7.10Y | 118.3 | 0.00 | 6.71 | 0.96 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 6.526 | 0.030 | 7 | 2 | 1 | 1 |
| PL.41364 | PL.41611 | C | #4 ACSR | 7.10Y | 118.3 | 0.00 | 6.68 | 2.11 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 6.513 | 0.075 | 15 | 4 | 1 | 1 |
| PL.41856 | PL.41610 | C | #2 ACSR | 7.10Y | 118.4 | 0.00 | 6.62 | 1.23 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 6.399 | 0.050 | 8 | 2 | 1 | 1 |
| PL.41546 | PL.41674 | C | #2 ACSR | 7.11Y | 118.4 | 0.00 | 6.56 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.313 | 0.030 | 0 | 0 | 0 | 0 |
| PL.41333 | PL.41560 | C | #4 ACSR | 7.11Y | 118.5 | 0.00 | 6.45 | 1.26 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 6.251 | 0.083 | 9 | 2 | 1 | 1 |
| PL.54071 | PL.57493 | C | #4 ACSR | 7.12Y | 118.7 | 0.04 | 6.30 | 6.30 | 5 | 43 | 12 | 96 | 0.02 | 0.0 | 6.153 | 0.159 | 0 | 0 | 0 | 7 |
| PL.54073 | PL.54071 | C | #1/0 ACSR | 7.12Y | 118.7 | 0.00 | 6.30 | 1.28 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 6.210 | 0.057 | 9 | 2 | 1 | 1 |
| PL.54072 | PL.54071 | C | #4 ACSR | 7.12Y | 118.7 | 0.01 | 6.31 | 5.02 | 4 | 35 | 9 | 97 | 0.00 | 0.0 | 6.187 | 0.034 | 6 | 2 | 1 | 6 |
| PL.41675 | PL.54072 | C | #4 ACSR | 7.12Y | 118.7 | 0.02 | 6.32 | 4.18 | 3 | 29 | 8 | 96 | 0.00 | 0.0 | 6.303 | 0.115 | 11 | 3 | 2 | 5 |
| PL.62035 | PL.41675 | C | #4 ACSR | 7.12Y | 118.7 | 0.01 | 6.33 | 2.59 | 2 | 18 | 5 | 96 | 0.00 | 0.0 | 6.458 | 0.156 | 17 | 5 | 1 | 3 |
| PL.62036 | PL.62035 | C | #4 ACSR | 7.12Y | 118.7 | 0.00 | 6.33 | 0.13 | 0 | 1 | 0 | 100 | 0.00 | 0.0 | 6.483 | 0.025 | 1 | 0 | 2 | 2 |
| PL.54070 | PL.41806 | ABC | 336 MCM AC | 7.14Y | 118.9 | 0.00 | 6.08 | 8.27 | 2 | 171 | 46 | 97 | 0.00 | 0.0 | 5.938 | 0.059 | 16 | 4 | 1 | 24 |
| PL.54069 | PL.54070 | ABC | 336 MCM AC | 7.14Y | 118.9 | 0.00 | 6.08 | 7.49 | 1 | 155 | 41 | 97 | 0.00 | 0.0 | 6.000 | 0.062 | 14 | 4 | 1 | 23 |
| PL.41877 | PL.54069 | ABC | 336 MCM AC | 7.14Y | 118.9 | 0.00 | 6.08 | 5.98 | 1 | 124 | 33 | 97 | 0.00 | 0.0 | 6.020 | 0.019 | 0 | 0 | 0 | 17 |
| PL.41879 | PL.41877 | ABC | 336 MCM AC | 7.13Y | 118.9 | 0.00 | 6.08 | 5.65 | 1 | 117 | 31 | 97 | 0.00 | 0.0 | 6.081 | 0.061 | 0 | 0 | 0 | 15 |
| PL.41036 | PL.41879 | ABC | 336 MCM AC | 7.13Y | 118.9 | 0.00 | 6.09 | 4.66 | 1 | 96 | 26 | 97 | 0.00 | 0.0 | 6.124 | 0.043 | 0 | 0 | 0 | 10 |
| PL.42190 | PL.41036 | C | 6 A (CWC) | 7.13Y | 118.9 | 0.00 | 6.09 | 12.29 | 9 | 85 | 23 | 97 | 0.00 | 0.0 | 6.129 | 0.006 | 0 | 0 | 0 | 9 |
| PD.6779 | PL.42190 | C | 40QA | 7.13Y | 118.9 | 0.00 | 6.09 | 12.29 | 31 | 85 | 23 | 97 | 0.00 | 0.0 | 6.129 | 0.006 | 0 | 0 | 0 | 9 |
| PL.42192 | PD.6779 | C | 6 A (CWC) | 7.13Y | 118.9 | 0.01 | 6.10 | 12.29 | 9 | 85 | 23 | 97 | 0.01 | 0.0 | 6.156 | 0.027 | 13 | 3 | 1 | 9 |
| PL.61178 | PL.42192 | C | 6 A (CWC) | 7.13Y | 118.9 | 0.04 | 6.15 | 10.48 | 7 | 72 | 19 | 97 | 0.02 | 0.0 | 6.262 | 0.106 | 21 | 6 | 2 | 8 |
| PL.66263 | PL.61178 | C | 6 A (CWC) | 7.13Y | 118.8 | 0.01 | 6.16 | 7.41 | 5 | 51 | 14 | 96 | 0.01 | 0.0 | 6.301 | 0.039 | 0 | 0 | 0 | 6 |
| PL.66264 | PL.66263 | C | 6 A (CWC) | 7.13Y | 118.8 | 0.00 | 6.16 | 7.41 | 5 | 51 | 14 | 96 | 0.00 | 0.0 | 6.315 | 0.014 | 0 | 0 | 0 | 6 |
| PL.61177 | PL.66264 | C | 6 A (CWC) | 7.13Y | 118.8 | 0.01 | 6.18 | 7.41 | 5 | 51 | 14 | 96 | 0.01 | 0.0 | 6.360 | 0.045 | 6 | 2 | 1 | 6 |
| PL.54087 | PL.61177 | C | 6 A (CWC) | 7.13Y | 118.8 | 0.02 | 6.20 | 6.57 | 5 | 45 | 12 | 97 | 0.01 | 0.0 | 6.455 | 0.095 | 17 | 5 | 3 | 5 |
| PL.42193 | PL.54087 | C | 6 A (CWC) | 7.13Y | 118.8 | 0.01 | 6.21 | 4.03 | 3 | 28 | 7 | 97 | 0.00 | 0.0 | 6.531 | 0.076 | 28 | 7 | 2 | 2 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.42191 | PL.41036 | A | #4 ACSR | 7.13Y | 118.9 | 0.00 | 6.09 | 1.69 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 6.129 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6702 | PL.42191 | A | 40QA | 7.13Y | 118.9 | 0.00 | 6.09 | 1.69 | 4 | 12 | 3 | 97 | 0.00 | 0.0 | 6.129 | 0.006 | 0 | 0 | 0 | 1 |
| PL.54361 | PD.6702 | A | #4 ACSR | 7.13Y | 118.9 | 0.00 | 6.09 | 1.69 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 6.148 | 0.019 | 0 | 0 | 0 | 1 |
| PL.54362 | PL.54361 | A | #4 ACSR | 7.13Y | 118.9 | 0.01 | 6.10 | 1.69 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 6.418 | 0.270 | 12 | 3 | 1 | 1 |
| PL.41035 | PL.41036 | ABC | 336 MCM AC | 7.13Y | 118.9 | 0.00 | 6.09 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.251 | 0.127 | 0 | 0 | 0 | 0 |
| PL.59264 | PL.41035 | ABC | #3/0 ACSR | 7.13Y | 118.9 | 0.00 | 6.09 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.255 | 0.004 | 0 | 0 | 0 | 0 |
| PD.8755-B | PL.59264 | ABC | Open | 7.13Y | 118.9 | 0.00 | 6.09 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.255 | 0.004 | 0 | 0 | 0 | 0 |
| PL.41881 | PL.41879 | C | #1/0 ACSR | 7.13Y | 118.9 | 0.00 | 6.08 | 0.59 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 6.087 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6492 | PL.41881 | C | 40QA | 7.13Y | 118.9 | 0.00 | 6.08 | 0.59 | 1 | 4 | 1 | 97 | 0.00 | 0.0 | 6.087 | 0.006 | 0 | 0 | 0 | 1 |
| PL.41882 | PD.6492 | C | #1/0 ACSR | 7.13Y | 118.9 | 0.00 | 6.09 | 0.59 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 6.103 | 0.016 | 4 | 1 | 1 | 1 |
| PL.41880 | PL.41879 | C | #2 ACSR | 7.13Y | 118.9 | 0.00 | 6.09 | 2.36 | 1 | 16 | 4 | 97 | 0.00 | 0.0 | 6.087 | 0.006 | 0 | 0 | 0 | 4 |
| PD.6703 | PL.41880 | C | 40QA | 7.13Y | 118.9 | 0.00 | 6.09 | 2.36 | 6 | 16 | 4 | 97 | 0.00 | 0.0 | 6.087 | 0.006 | 0 | 0 | 0 | 4 |
| PL.41033 | PD.6703 | C | #2 ACSR | 7.13Y | 118.9 | 0.00 | 6.09 | 2.36 | 1 | 16 | 4 | 97 | 0.00 | 0.0 | 6.164 | 0.077 | 4 | 1 | 1 | 4 |
| PL.41034 | PL.41033 | C | #2 ACSR | 7.13Y | 118.9 | 0.00 | 6.09 | 1.75 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 6.203 | 0.039 | 12 | 3 | 3 | 3 |
| PL.41878 | PL.41877 | A | #2 ACSR | 7.14Y | 118.9 | 0.00 | 6.08 | 1.00 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 6.025 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6493 | PL.41878 | A | 40QA | 7.14Y | 118.9 | 0.00 | 6.08 | 1.00 | 3 | 7 | 2 | 96 | 0.00 | 0.0 | 6.025 | 0.006 | 0 | 0 | 0 | 2 |
| PL.54062 | PD.6493 | A | #2 ACSR | 7.14Y | 118.9 | 0.00 | 6.08 | 1.00 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 6.035 | 0.009 | 7 | 2 | 2 | 2 |
| PL.41876 | PL.54069 | A | #2 ACSR | 7.14Y | 118.9 | 0.00 | 6.08 | 2.56 | 1 | 18 | 5 | 96 | 0.00 | 0.0 | 6.006 | 0.006 | 0 | 0 | 0 | 5 |
| PD.6784 | PL.41876 | A | 40QA | 7.14Y | 118.9 | 0.00 | 6.08 | 2.56 | 6 | 18 | 5 | 96 | 0.00 | 0.0 | 6.006 | 0.006 | 0 | 0 | 0 | 5 |
| PL.54063 | PD.6784 | A | #2 ACSR | 7.14Y | 118.9 | 0.00 | 6.08 | 2.56 | 1 | 18 | 5 | 96 | 0.00 | 0.0 | 6.013 | 0.007 | 0 | 0 | 0 | 5 |
| PL.54064 | PL.54063 | A | #2 ACSR | 7.13Y | 118.9 | 0.00 | 6.08 | 2.56 | 1 | 18 | 5 | 96 | 0.00 | 0.0 | 6.060 | 0.047 | 18 | 5 | 4 | 4 |
| PL.54065 | PL.54063 | A | #1/0 ACSR | 7.14Y | 118.9 | 0.00 | 6.08 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 6.065 | 0.052 | 0 | 0 | 1 | 1 |
| PL.41803 | PL.54048 | A | #2 ACSR | 7.14Y | 119.0 | 0.00 | 6.05 | 1.21 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 5.787 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6576 | PL.41803 | A | 40QA | 7.14Y | 119.0 | 0.00 | 6.05 | 1.21 | 3 | 8 | 2 | 97 | 0.00 | 0.0 | 5.787 | 0.006 | 0 | 0 | 0 | 1 |
| PL.59360 | PD.6576 | A | #2 ACSR | 7.14Y | 119.0 | 0.00 | 6.05 | 1.21 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 5.804 | 0.017 | 8 | 2 | 1 | 1 |
| PL.41804 | PL.54048 | C | #2 ACSR | 7.14Y | 119.0 | 0.00 | 6.05 | 1.57 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 5.787 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6116 | PL.41804 | C | 40QA | 7.14Y | 119.0 | 0.00 | 6.05 | 1.57 | 4 | 11 | 3 | 96 | 0.00 | 0.0 | 5.787 | 0.006 | 0 | 0 | 0 | 1 |
| PL.41805 | PD.6116 | C | #2 ACSR | 7.14Y | 119.0 | 0.00 | 6.05 | 1.57 | 1 | 11 | 3 | 96 | 0.00 | 0.0 | 5.797 | 0.011 | 11 | 3 | 1 | 1 |
| PL.42531 | PL.42530 | A | #2 ACSR | 7.14Y | 119.0 | 0.00 | 5.99 | 0.36 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 5.573 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6575 | PL.42531 | A | 40QA | 7.14Y | 119.0 | 0.00 | 5.99 | 0.36 | 1 | 3 | 1 | 95 | 0.00 | 0.0 | 5.573 | 0.006 | 0 | 0 | 0 | 1 |
| PL.54051 | PD.6575 | A | #2 ACSR | 7.14Y | 119.0 | 0.00 | 5.99 | 0.36 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 5.602 | 0.029 | 3 | 1 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|---|------------|--------------|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | Cons On | Cons Thru |
| PL.41627 | PL.41626 | C | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.151 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6760 | PL.41627 | C | 40QA | 7.15Y | 119.1 | 0.00 | 5.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.151 | 0.006 | 0 | 0 | 0 | 0 |
| PL.41628 | PD.6760 | C | #2 ACSR | 7.15Y | 119.1 | 0.00 | 5.86 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 5.159 | 0.008 | 0 | 0 | 0 | 0 |
| PL.41623 | PL.41622 | A | #2 ACSR | 7.15Y | 119.2 | 0.00 | 5.79 | 2.31 | 1 | 16 | 4 | 97 | 0.00 | 0.0 | 4.952 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6683 | PL.41623 | A | 40QA | 7.15Y | 119.2 | 0.00 | 5.79 | 2.31 | 6 | 16 | 4 | 97 | 0.00 | 0.0 | 4.952 | 0.006 | 0 | 0 | 0 | 2 |
| PL.41624 | PD.6683 | A | #2 ACSR | 7.15Y | 119.2 | 0.00 | 5.80 | 2.31 | 1 | 16 | 4 | 97 | 0.00 | 0.0 | 4.988 | 0.036 | 12 | 3 | 1 | 2 |
| PL.41625 | PL.41624 | A | #2 ACSR | 7.15Y | 119.2 | 0.00 | 5.80 | 0.62 | 0 | 4 | 1 | 97 | 0.00 | 0.0 | 5.022 | 0.034 | 4 | 1 | 1 | 1 |
| PL.42520 | PL.42519 | A | #2 ACSR | 7.15Y | 119.2 | 0.00 | 5.78 | 0.80 | 0 | 6 | 1 | 99 | 0.00 | 0.0 | 4.921 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6682 | PL.42520 | A | 50QA | 7.15Y | 119.2 | 0.00 | 5.78 | 0.80 | 2 | 6 | 1 | 99 | 0.00 | 0.0 | 4.921 | 0.006 | 0 | 0 | 0 | 1 |
| PL.41657 | PD.6682 | A | #2 ACSR | 7.15Y | 119.2 | 0.00 | 5.78 | 0.80 | 0 | 6 | 1 | 99 | 0.00 | 0.0 | 4.929 | 0.007 | 6 | 1 | 1 | 1 |
| PL.42517 | PL.42516 | C | #2 ACSR | 7.15Y | 119.2 | 0.00 | 5.77 | 1.26 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 4.880 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6573 | PL.42517 | C | 40QA | 7.15Y | 119.2 | 0.00 | 5.77 | 1.26 | 3 | 9 | 2 | 98 | 0.00 | 0.0 | 4.880 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42518 | PD.6573 | C | #1/0 ACSR | 7.15Y | 119.2 | 0.00 | 5.77 | 1.26 | 1 | 9 | 2 | 98 | 0.00 | 0.0 | 4.911 | 0.032 | 9 | 2 | 1 | 1 |
| PL.41366 | PL.41819 | C | #1/0 ACSR | 7.18Y | 119.6 | 0.00 | 5.37 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.899 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6758 | PL.41366 | C | 40QA | 7.18Y | 119.6 | 0.00 | 5.37 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.899 | 0.006 | 0 | 0 | 0 | 0 |
| PL.41367 | PD.6758 | C | #1/0 ACSR | 7.18Y | 119.6 | 0.00 | 5.37 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.908 | 0.009 | 0 | 0 | 0 | 0 |
| PL.59401 | PL.59403 | B | 6 A (CWC) | 7.19Y | 119.8 | 0.00 | 5.22 | 2.17 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 3.747 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6466 | PL.59401 | B | 60QA | 7.19Y | 119.8 | 0.00 | 5.22 | 2.17 | 4 | 15 | 4 | 97 | 0.00 | 0.0 | 3.747 | 0.006 | 0 | 0 | 0 | 1 |
| PL.41481 | PD.6466 | B | 6 A (CWC) | 7.19Y | 119.8 | 0.00 | 5.22 | 2.17 | 2 | 15 | 4 | 97 | 0.00 | 0.0 | 3.786 | 0.039 | 15 | 4 | 1 | 1 |
| PL.61140 | PL.56045 | C | #1/0 ACSR | 7.22Y | 120.3 | 0.00 | 4.74 | 1.20 | 1 | 8 | 2 | 97 | 0.00 | 0.0 | 3.314 | 0.045 | 8 | 2 | 1 | 1 |
| PL.62810 | PL.62809 | B | #4 ACSR | 7.24Y | 120.6 | 0.00 | 4.36 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.917 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6787 | PL.62810 | B | 40QA | 7.24Y | 120.6 | 0.00 | 4.36 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 2.917 | 0.006 | 0 | 0 | 0 | 0 |
| PL.41654 | PD.6787 | B | #4 ACSR | 7.24Y | 120.6 | 0.00 | 4.36 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.052 | 0.135 | 0 | 0 | 0 | 0 |
| PL.41655 | PL.41654 | B | #4 ACSR | 7.24Y | 120.6 | 0.00 | 4.36 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 3.196 | 0.144 | 0 | 0 | 0 | 0 |
| PL.42295 | PL.42294 | A | 6 A (CWC) | 7.29Y | 121.4 | 0.00 | 3.57 | 0.37 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 2.254 | 0.006 | 0 | 0 | 0 | 2 |
| PD.6578 | PL.42295 | A | 60QA | 7.29Y | 121.4 | 0.00 | 3.57 | 0.37 | 1 | 3 | 1 | 95 | 0.00 | 0.0 | 2.254 | 0.006 | 0 | 0 | 0 | 2 |
| PL.42296 | PD.6578 | A | 6 A (CWC) | 7.29Y | 121.4 | 0.00 | 3.57 | 0.37 | 0 | 3 | 1 | 95 | 0.00 | 0.0 | 2.295 | 0.041 | 3 | 1 | 2 | 2 |
| PL.42286 | PL.42285 | B | #4 ACSR | 7.31Y | 121.8 | 0.00 | 3.15 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.918 | 0.006 | 0 | 0 | 0 | 0 |
| PD.6606 | PL.42286 | B | 60QA | 7.31Y | 121.8 | 0.00 | 3.15 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.918 | 0.006 | 0 | 0 | 0 | 0 |
| PL.42287 | PD.6606 | B | #4 ACSR | 7.31Y | 121.8 | 0.00 | 3.15 | 0.00 | 0 | 0 | 0 | 100 | 0.00 | 0.0 | 1.964 | 0.046 | 0 | 0 | 0 | 0 |
| PL.42280 | PL.59382 | C | 6 A (CWC) | 7.32Y | 122.0 | 0.00 | 2.98 | 6.71 | 5 | 47 | 13 | 96 | 0.00 | 0.0 | 1.780 | 0.006 | 0 | 0 | 0 | 5 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

Balanced Voltage Drop Report
Source: Keavy 2

Database: C:\MILSOFT\DATA\2010-2013 WP EXISTING CONDITIONS.WM\
Title: 2010-2013 CWP - Jackson Energy Cooperative - McKee, Kentucky
Case: 2009 Existing Conditions

| Units Displayed In Volts | | | | | | | | | | | | | | | | | | | | |
|--------------------------|-------------|-----|--------------------|-----------|--------------|-----------------|---------------|--------------|----------|------------|------|---------|------------|-----------|-------------------|----------------|-------------------|------------|--------------|---|
| -Base Voltage:120.0- | | | | | | | | | | | | | | | | | | | | |
| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | KVAR | % PF | kW Loss | % Loss | mi From Src | Length (mi) | -----Element----- | | | |
| | | | | | | | | | | | | | | | | KW | KVAR | Cons On | Cons Thru | |
| PD.6464 | PL.42280 | C | 60QA | 7.32Y | 122.0 | 0.00 | 2.98 | 6.71 | 11 | 47 | 13 | 96 | 0.00 | 0.0 | 1.780 | 0.006 | 0 | 0 | 0 | 5 |
| PL.59335 | PD.6464 | C | 6 A (CWC) | 7.32Y | 122.0 | 0.01 | 2.99 | 6.71 | 5 | 47 | 13 | 96 | 0.00 | 0.0 | 1.831 | 0.052 | 19 | 5 | 3 | 5 |
| PL.59336 | PL.59335 | C | #1/0 ACSR | 7.32Y | 122.0 | 0.00 | 2.99 | 3.97 | 2 | 28 | 8 | 96 | 0.00 | 0.0 | 1.847 | 0.015 | 28 | 8 | 2 | 2 |
| PL.41515 | PL.66131 | C | #2 ACSR | 7.36Y | 122.6 | 0.00 | 2.36 | 1.67 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 1.320 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6395 | PL.41515 | C | 10QA | 7.36Y | 122.6 | 0.00 | 2.36 | 1.67 | 0 | 12 | 3 | 97 | 0.00 | 0.0 | 1.320 | 0.006 | 0 | 0 | 0 | 1 |
| PL.41516 | PD.6395 | C | #2 ACSR | 7.36Y | 122.6 | 0.00 | 2.36 | 1.67 | 1 | 12 | 3 | 97 | 0.00 | 0.0 | 1.333 | 0.013 | 12 | 3 | 1 | 1 |
| PL.66132 | PL.66130 | C | #1/0 ACSR | 7.36Y | 122.7 | 0.00 | 2.32 | 0.64 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 1.287 | 0.003 | 0 | 0 | 0 | 1 |
| PD.9996 | PL.66132 | C | 20T | 7.36Y | 122.7 | 0.00 | 2.32 | 0.64 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 1.287 | 0.003 | 0 | 0 | 0 | 1 |
| PL.66133 | PD.9996 | C | #1/0 ACSR | 7.36Y | 122.7 | 0.00 | 2.32 | 0.64 | 0 | 5 | 1 | 98 | 0.00 | 0.0 | 1.315 | 0.028 | 5 | 1 | 1 | 1 |
| PL.42269 | PL.52994 | C | #4 ACSR | 7.48Y | 124.6 | 0.00 | 0.40 | 0.92 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 0.216 | 0.006 | 0 | 0 | 0 | 1 |
| PD.6517 | PL.42269 | C | 75QA | 7.48Y | 124.6 | 0.00 | 0.40 | 0.92 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 0.216 | 0.006 | 0 | 0 | 0 | 1 |
| PL.42270 | PD.6517 | C | #4 ACSR | 7.48Y | 124.6 | 0.00 | 0.40 | 0.92 | 1 | 7 | 2 | 96 | 0.00 | 0.0 | 0.250 | 0.034 | 7 | 2 | 1 | 1 |

KEY-> L = Low Voltage H = High Voltage C = Capacity Over Limit (%capacity or load amps) G = Generator Out of kvar Limits P = Power Factor Low

| | Load | Adjustment | Capacitance | Charging | Gen&Motors | Loops&Metas | Losses | No Load | Losses | Total | | | |
|------|-------|------------|-------------|----------|------------|-------------|--------|---------|--------|-------|------------------|--------|---------------------|
| KW | 10864 | 0 | 0 | 0 | 0 | 0 | 306 | | 0.00 | 11170 | Lowest Voltage = | 116.55 | on Element PL.59323 |
| KVAR | 3185 | 0 | 0 | -23 | 0 | 0 | 511 | | | 3673 | Max Accm VoltD = | 8.45 | on Element PL.59323 |
| | | | | | | | | | | | Max Elem VoltD = | 0.82 | on Element PL.61157 |