

Balanced Voltage Drop Report  
Source: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| Millers Creek   |               | ABC | SRC-Miller         | 7.50Y     | 125.0        | 0.00            | 0.00          | 250.64       | 0        | 5357       | 1761 | 95      | 0.00       | 0.0       | 0.000             | 0.000          | 0                 | 0 | 0          | 1414         |
| PL.20516  | Millers Creek | ABC | 336 MCM AC         | 7.50Y     | 125.0        | 0.00            | 0.00          | 76.64        | 15       | 1642       | 527  | 95      | 0.03       | 0.0       | 0.007             | 0.007          | 0                 | 0 | 0          | 458          |
| PL.28003  | PL.20516      | ABC | 336 MCM AC         | 7.50Y     | 125.0        | 0.00            | 0.00          | 76.64        | 15       | 1642       | 527  | 95      | 0.01       | 0.0       | 0.008             | 0.002          | 0                 | 0 | 0          | 458          |
| ----- Feeder No. 3 (Pryce F3) Beginning with Device PD.3873 ----- |               |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PD.3873   | PL.28003      | ABC | 200VWE             | 7.50Y     | 125.0        | 0.00            | 0.00          | 76.64        | 0        | 1642       | 527  | 95      | 0.00       | 0.0       | 0.008             | 0.002          | 0                 | 0 | 0          | 458          |
| PL.28004  | PD.3873       | ABC | 336 MCM AC         | 7.50Y     | 125.0        | 0.00            | 0.01          | 76.64        | 15       | 1642       | 527  | 95      | 0.03       | 0.0       | 0.013             | 0.005          | 0                 | 0 | 0          | 458          |
| PL.20770  | PL.28004      | ABC | 336 MCM AC         | 7.50Y     | 124.9        | 0.06            | 0.07          | 76.64        | 15       | 1642       | 527  | 95      | 0.48       | 0.0       | 0.110             | 0.096          | 0                 | 0 | 0          | 458          |
| PL.21218  | PL.20770      | A   | #1/0 ACSR          | 7.50Y     | 124.9        | 0.00            | 0.07          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.114             | 0.005          | 0                 | 0 | 0          | 0            |
| PD.3030   | PL.21218      | A   | 50T                | 7.50Y     | 124.9        | 0.00            | 0.07          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.114             | 0.005          | 0                 | 0 | 0          | 0            |
| PL.21217  | PD.3030       | A   | #1/0 ACSR          | 7.50Y     | 124.9        | 0.00            | 0.07          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.143             | 0.029          | 0                 | 0 | 0          | 0            |
| PL.20771  | PL.20770      | ABC | 336 MCM AC         | 7.49Y     | 124.9        | 0.06            | 0.13          | 76.64        | 15       | 1641       | 526  | 95      | 0.51       | 0.0       | 0.212             | 0.103          | 0                 | 0 | 0          | 458          |
| PL.20827  | PL.20771      | ABC | 336 MCM AC         | 7.49Y     | 124.8        | 0.06            | 0.19          | 76.64        | 15       | 1641       | 525  | 95      | 0.49       | 0.0       | 0.312             | 0.099          | 0                 | 0 | 0          | 458          |
| PL.19885  | PL.20827      | B   | 6 A (CWC)          | 7.49Y     | 124.8        | 0.01            | 0.19          | 1.50         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 0.427             | 0.115          | 0                 | 0 | 0          | 2            |
| PL.21215  | PL.19885      | B   | 6 A (CWC)          | 7.49Y     | 124.8        | 0.00            | 0.19          | 1.50         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 0.432             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3029   | PL.21215      | B   | 50T                | 7.49Y     | 124.8        | 0.00            | 0.19          | 1.50         | 0        | 11         | 3    | 96      | 0.00       | 0.0       | 0.432             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.21216  | PD.3029       | B   | 6 A (CWC)          | 7.49Y     | 124.8        | 0.01            | 0.20          | 1.50         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 0.524             | 0.093          | 0                 | 0 | 0          | 2            |
| PL.20828  | PL.21216      | B   | 6 A (CWC)          | 7.49Y     | 124.8        | 0.01            | 0.21          | 1.50         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 0.634             | 0.109          | 0                 | 0 | 0          | 2            |
| PL.20829  | PL.20828      | B   | 6 A (CWC)          | 7.49Y     | 124.8        | 0.01            | 0.22          | 1.50         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 0.814             | 0.181          | 0                 | 0 | 0          | 2            |
| PL.21142  | PL.20829      | B   | 6 A (CWC)          | 7.49Y     | 124.8        | 0.00            | 0.22          | 1.50         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 0.846             | 0.032          | 0                 | 0 | 1          | 2            |
| PL.21143  | PL.21142      | B   | 6 A (CWC)          | 7.49Y     | 124.8        | 0.00            | 0.23          | 1.50         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 0.937             | 0.091          | 11                | 3 | 1          | 1            |
| PL.20772  | PL.20827      | ABC | 336 MCM AC         | 7.49Y     | 124.8        | 0.04            | 0.22          | 76.14        | 15       | 1629       | 521  | 95      | 0.30       | 0.0       | 0.373             | 0.061          | 0                 | 0 | 0          | 456          |
| PL.19886  | PL.20772      | ABC | 336 MCM AC         | 7.48Y     | 124.7        | 0.04            | 0.26          | 76.14        | 15       | 1629       | 520  | 95      | 0.29       | 0.0       | 0.433             | 0.060          | 0                 | 0 | 0          | 456          |
| PL.20773  | PL.19886      | ABC | 336 MCM AC         | 7.48Y     | 124.7        | 0.03            | 0.29          | 76.14        | 15       | 1629       | 519  | 95      | 0.24       | 0.0       | 0.481             | 0.048          | 0                 | 0 | 0          | 456          |
| PL.20774  | PL.20773      | ABC | 336 MCM AC         | 7.48Y     | 124.6        | 0.10            | 0.38          | 76.14        | 15       | 1629       | 519  | 95      | 0.78       | 0.0       | 0.642             | 0.161          | 0                 | 0 | 0          | 456          |
| PL.21135  | PL.20774      | ABC | 336 MCM AC         | 7.48Y     | 124.6        | 0.03            | 0.41          | 76.14        | 15       | 1628       | 517  | 95      | 0.28       | 0.0       | 0.698             | 0.056          | 0                 | 0 | 0          | 456          |
| PL.21136  | PL.21135      | ABC | 336 MCM AC         | 7.47Y     | 124.5        | 0.07            | 0.48          | 76.14        | 15       | 1627       | 516  | 95      | 0.57       | 0.0       | 0.815             | 0.116          | 0                 | 0 | 0          | 456          |
| PL.19887  | PL.21136      | ABC | 336 MCM AC         | 7.47Y     | 124.5        | 0.06            | 0.54          | 76.14        | 15       | 1627       | 515  | 95      | 0.46       | 0.0       | 0.908             | 0.094          | 0                 | 0 | 0          | 456          |
| PL.20518  | PL.19887      | C   | #1/0 ACSR          | 7.47Y     | 124.5        | 0.00            | 0.54          | 0.58         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 0.962             | 0.054          | 0                 | 0 | 0          | 1            |
| PL.21213  | PL.20518      | C   | #1/0 ACSR          | 7.47Y     | 124.5        | 0.00            | 0.54          | 0.58         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 0.967             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3028   | PL.21213      | C   | 50T                | 7.47Y     | 124.5        | 0.00            | 0.54          | 0.58         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 0.967             | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.21214                 | PD.3028     | C   | #1/0 ACSR          | 7.47Y     | 124.5        | 0.00            | 0.54          | 0.58         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 1.017             | 0.051          | 4                 | 1 | 1          | 1            |
| PL.20775                 | PL.19887    | ABC | 336 MCM AC         | 7.47Y     | 124.4        | 0.04            | 0.58          | 75.51        | 15       | 1613       | 510  | 95      | 0.32       | 0.0       | 0.974             | 0.066          | 0                 | 0 | 0          | 453          |
| PL.20520                 | PL.20775    | ABC | 336 MCM AC         | 7.46Y     | 124.4        | 0.06            | 0.64          | 75.51        | 15       | 1613       | 509  | 95      | 0.53       | 0.0       | 1.084             | 0.110          | 0                 | 0 | 0          | 453          |
| PL.20831                 | PL.20520    | ABC | 336 MCM AC         | 7.46Y     | 124.3        | 0.09            | 0.73          | 75.51        | 15       | 1612       | 508  | 95      | 0.76       | 0.0       | 1.243             | 0.159          | 0                 | 0 | 0          | 453          |
| PL.20832                 | PL.20831    | ABC | 336 MCM AC         | 7.45Y     | 124.2        | 0.08            | 0.82          | 75.51        | 15       | 1611       | 506  | 95      | 0.69       | 0.0       | 1.387             | 0.145          | 0                 | 0 | 0          | 453          |
| PL.20833                 | PL.20832    | ABC | 336 MCM AC         | 7.45Y     | 124.1        | 0.05            | 0.87          | 75.51        | 15       | 1611       | 505  | 95      | 0.38       | 0.0       | 1.467             | 0.079          | 0                 | 0 | 0          | 453          |
| PL.20521                 | PL.20833    | B   | #1/0 ACSR          | 7.45Y     | 124.1        | 0.00            | 0.87          | 0.17         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 1.495             | 0.029          | 0                 | 0 | 0          | 1            |
| PL.21207                 | PL.20521    | B   | #1/0 ACSR          | 7.45Y     | 124.1        | 0.00            | 0.87          | 0.17         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 1.500             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3025                  | PL.21207    | B   | 50T                | 7.45Y     | 124.1        | 0.00            | 0.87          | 0.17         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 1.500             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.21208                 | PD.3025     | B   | #1/0 ACSR          | 7.45Y     | 124.1        | 0.00            | 0.87          | 0.17         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 1.593             | 0.094          | 1                 | 0 | 1          | 1            |
| PL.20914                 | PL.20833    | ABC | 336 MCM AC         | 7.44Y     | 124.1        | 0.06            | 0.92          | 75.46        | 15       | 1609       | 504  | 95      | 0.49       | 0.0       | 1.568             | 0.102          | 5                 | 1 | 2          | 452          |
| PL.21130                 | PL.20914    | ABC | 336 MCM AC         | 7.44Y     | 124.1        | 0.02            | 0.95          | 73.97        | 14       | 1577       | 493  | 95      | 0.18       | 0.0       | 1.607             | 0.039          | 0                 | 0 | 1          | 444          |
| PL.21131                 | PL.21130    | ABC | 336 MCM AC         | 7.44Y     | 124.0        | 0.02            | 0.97          | 73.97        | 14       | 1576       | 493  | 95      | 0.15       | 0.0       | 1.639             | 0.032          | 0                 | 0 | 0          | 443          |
| PL.21115                 | PL.21131    | ABC | 336 MCM AC         | 7.44Y     | 124.0        | 0.05            | 1.01          | 73.97        | 14       | 1576       | 493  | 95      | 0.39       | 0.0       | 1.724             | 0.085          | 0                 | 0 | 1          | 443          |
| PL.21116                 | PL.21115    | ABC | 336 MCM AC         | 7.43Y     | 123.9        | 0.10            | 1.12          | 73.97        | 14       | 1576       | 492  | 95      | 0.84       | 0.1       | 1.907             | 0.183          | 0                 | 0 | 0          | 442          |
| PL.20522                 | PL.21116    | ABC | 336 MCM AC         | 7.43Y     | 123.8        | 0.04            | 1.16          | 73.97        | 14       | 1575       | 490  | 95      | 0.33       | 0.0       | 1.979             | 0.071          | 0                 | 0 | 0          | 442          |
| PL.21205                 | PL.20522    | C   | 6 A (CWC)          | 7.43Y     | 123.8        | 0.00            | 1.16          | 0.88         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 1.983             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3024                  | PL.21205    | C   | 50T                | 7.43Y     | 123.8        | 0.00            | 1.16          | 0.88         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 1.983             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.21206                 | PD.3024     | C   | 6 A (CWC)          | 7.43Y     | 123.8        | 0.00            | 1.16          | 0.88         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 2.021             | 0.038          | 6                 | 2 | 1          | 2            |
| PL.20523                 | PL.21206    | C   | #1/0 ACSR          | 7.43Y     | 123.8        | 0.00            | 1.16          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.059             | 0.037          | 0                 | 0 | 1          | 1            |
| PL.20776                 | PL.20522    | ABC | 336 MCM AC         | 7.43Y     | 123.8        | 0.08            | 1.24          | 73.68        | 14       | 1568       | 487  | 95      | 0.63       | 0.0       | 2.116             | 0.138          | 0                 | 0 | 0          | 440          |
| PL.20777                 | PL.20776    | ABC | 336 MCM AC         | 7.42Y     | 123.7        | 0.09            | 1.32          | 73.68        | 14       | 1568       | 486  | 96      | 0.70       | 0.0       | 2.270             | 0.154          | 0                 | 0 | 0          | 440          |
| PL.20834                 | PL.20777    | ABC | 336 MCM AC         | 7.42Y     | 123.6        | 0.06            | 1.38          | 73.68        | 14       | 1567       | 484  | 96      | 0.46       | 0.0       | 2.370             | 0.100          | 0                 | 0 | 0          | 440          |
| PL.20835                 | PL.20834    | ABC | 336 MCM AC         | 7.41Y     | 123.6        | 0.06            | 1.44          | 73.68        | 14       | 1567       | 483  | 96      | 0.47       | 0.0       | 2.472             | 0.102          | 0                 | 0 | 0          | 440          |
| PL.20778                 | PL.20835    | ABC | 336 MCM AC         | 7.41Y     | 123.5        | 0.06            | 1.50          | 69.95        | 13       | 1486       | 459  | 96      | 0.46       | 0.0       | 2.583             | 0.111          | 0                 | 0 | 0          | 422          |
| PL.21263                 | PL.20778    | ABC | 336 MCM AC         | 7.41Y     | 123.4        | 0.06            | 1.56          | 69.55        | 13       | 1477       | 456  | 96      | 0.49       | 0.0       | 2.703             | 0.120          | 0                 | 0 | 0          | 421          |
| PL.21264                 | PL.21263    | ABC | 336 MCM AC         | 7.41Y     | 123.4        | 0.01            | 1.57          | 69.55        | 13       | 1477       | 455  | 96      | 0.06       | 0.0       | 2.719             | 0.016          | 5                 | 2 | 1          | 421          |
| PL.21119                 | PL.21264    | ABC | 336 MCM AC         | 7.40Y     | 123.4        | 0.07            | 1.64          | 69.30        | 13       | 1471       | 453  | 96      | 0.52       | 0.0       | 2.846             | 0.127          | 0                 | 0 | 0          | 420          |
| PL.21239                 | PL.21119    | ABC | 336 MCM AC         | 7.40Y     | 123.3        | 0.07            | 1.71          | 69.30        | 13       | 1471       | 452  | 96      | 0.56       | 0.0       | 2.984             | 0.138          | 0                 | 0 | 0          | 420          |
| PD.3045-A                | PL.21239    | ABC | Closed             | 7.40Y     | 123.3        | 0.00            | 1.71          | 69.30        | 0        | 1470       | 451  | 96      | 0.00       | 0.0       | 2.984             | 0.138          | 0                 | 0 | 0          | 420          |
| PD.3045-B                | PD.3045-A   | ABC | Closed             | 7.40Y     | 123.3        | 0.00            | 1.71          | 69.30        | 0        | 1470       | 451  | 96      | 0.00       | 0.0       | 2.984             | 0.138          | 0                 | 0 | 0          | 420          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss                   | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |                              |           |                   |                |                   |   |            |              |
| PL.21240                 | PD.3045-B   | ABC | 336 MCM AC         | 7.40Y     | 123.3        | 0.03            | 1.74          | 69.30        | 13       | 1470       | 451  | 96      | 0.23                         | 0.0       | 3.042             | 0.058          | 0                 | 0 | 0          | 420          |
| PL.21199                 | PL.21240    | C   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.74          | 0.70         | 0        | 5          | 1    | 98      | 0.00                         | 0.0       | 3.046             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3021                  | PL.21199    | C   | 50T                | 7.40Y     | 123.3        | 0.00            | 1.74          | 0.70         | 0        | 5          | 1    | 98      | 0.00                         | 0.0       | 3.046             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.21200                 | PD.3021     | C   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.75          | 0.70         | 0        | 5          | 1    | 98      | 0.00                         | 0.0       | 3.155             | 0.109          | 0                 | 0 | 0          | 3            |
| PL.20842                 | PL.21200    | C   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.75          | 0.70         | 0        | 5          | 1    | 98      | 0.00                         | 0.0       | 3.239             | 0.084          | 0                 | 0 | 0          | 3            |
| PL.21117                 | PL.20842    | C   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.00            | 1.75          | 0.70         | 0        | 5          | 1    | 98      | 0.00                         | 0.0       | 3.347             | 0.108          | 1                 | 0 | 1          | 3            |
| PL.21118                 | PL.21117    | C   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.00            | 1.75          | 0.53         | 0        | 4          | 1    | 97      | 0.00                         | 0.0       | 3.398             | 0.051          | 0                 | 0 | 0          | 2            |
| PL.21120                 | PL.21118    | C   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.00            | 1.76          | 0.53         | 0        | 4          | 1    | 97      | 0.00                         | 0.0       | 3.539             | 0.141          | 0                 | 0 | 1          | 2            |
| PL.21121                 | PL.21120    | C   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.00            | 1.76          | 0.53         | 0        | 4          | 1    | 97      | 0.00                         | 0.0       | 3.629             | 0.090          | 0                 | 0 | 0          | 1            |
| PL.20782                 | PL.21121    | C   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.00            | 1.76          | 0.00         | 0        | 0          | 0    | 100     | 0.00                         | 0.0       | 3.700             | 0.071          | 0                 | 0 | 0          | 0            |
| PL.21203                 | PL.21121    | C   | 1/0 AL URD         | 7.39Y     | 123.2        | 0.00            | 1.76          | 0.53         | 0        | 4          | 1    | 97      | 0.00                         | 0.0       | 3.633             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3023                  | PL.21203    | C   | 30T                | 7.39Y     | 123.2        | 0.00            | 1.76          | 0.53         | 0        | 4          | 1    | 97      | 0.00                         | 0.0       | 3.633             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.21204                 | PD.3023     | C   | 1/0 AL URD         | 7.39Y     | 123.2        | 0.00            | 1.76          | 0.53         | 0        | 4          | 1    | 97      | 0.00                         | 0.0       | 3.659             | 0.026          | 4                 | 1 | 1          | 1            |
| PL.20781                 | PL.21240    | ABC | 336 MCM AC         | 7.39Y     | 123.2        | 0.06            | 1.81          | 69.07        | 13       | 1465       | 449  | 96      | 0.48                         | 0.0       | 3.162             | 0.121          | 0                 | 0 | 0          | 417          |
| PL.20843                 | PL.20781    | ABC | 336 MCM AC         | 7.39Y     | 123.1        | 0.06            | 1.87          | 69.07        | 13       | 1465       | 448  | 96      | 0.47                         | 0.0       | 3.280             | 0.118          | 0                 | 0 | 0          | 417          |
| PL.20844                 | PL.20843    | ABC | 336 MCM AC         | 7.38Y     | 123.1        | 0.06            | 1.93          | 69.07        | 13       | 1464       | 446  | 96      | 0.46                         | 0.0       | 3.394             | 0.114          | 0                 | 0 | 0          | 417          |
| PL.21265                 | PL.20844    | ABC | 336 MCM AC         | 7.38Y     | 123.0        | 0.09            | 2.02          | 68.62        | 13       | 1454       | 443  | 96      | 0.69                         | 0.0       | 3.566             | 0.173          | 0                 | 0 | 0          | 412          |
| RG.27                    | PL.21265    | ABC | 76.2 KVA           | 7.47Y     | 124.5        | -1.56           | 0.46          | 68.62        | 69       | 1454       | 441  | 96      | percent Boost= 1.25 Tap= 2.0 |           |                   |                |                   |   | 412        |              |
| PL.21266                 | RG.27       | ABC | 336 MCM AC         | 7.47Y     | 124.5        | 0.07            | 0.54          | 67.77        | 13       | 1454       | 441  | 96      | 0.54                         | 0.0       | 3.705             | 0.138          | 0                 | 0 | 0          | 412          |
| PL.20850                 | PL.21266    | ABC | 336 MCM AC         | 7.46Y     | 124.4        | 0.06            | 0.60          | 67.77        | 13       | 1453       | 440  | 96      | 0.48                         | 0.0       | 3.830             | 0.125          | 0                 | 0 | 0          | 412          |
| PL.20894                 | PL.20850    | ABC | 336 MCM AC         | 7.46Y     | 124.3        | 0.05            | 0.65          | 67.77        | 13       | 1453       | 439  | 96      | 0.39                         | 0.0       | 3.930             | 0.100          | 0                 | 0 | 0          | 412          |
| PL.20851                 | PL.20894    | ABC | 336 MCM AC         | 7.46Y     | 124.3        | 0.05            | 0.70          | 67.77        | 13       | 1452       | 438  | 96      | 0.38                         | 0.0       | 4.028             | 0.098          | 0                 | 0 | 0          | 412          |
| PL.20852                 | PL.20851    | ABC | 336 MCM AC         | 7.45Y     | 124.2        | 0.07            | 0.77          | 67.77        | 13       | 1452       | 437  | 96      | 0.53                         | 0.0       | 4.165             | 0.137          | 0                 | 0 | 0          | 412          |
| PL.21112                 | PL.20852    | ABC | 336 MCM AC         | 7.45Y     | 124.2        | 0.06            | 0.83          | 67.77        | 13       | 1451       | 436  | 96      | 0.43                         | 0.0       | 4.278             | 0.112          | 0                 | 0 | 0          | 412          |
| PL.21113                 | PL.21112    | ABC | 336 MCM AC         | 7.45Y     | 124.1        | 0.08            | 0.91          | 67.77        | 13       | 1451       | 435  | 96      | 0.60                         | 0.0       | 4.433             | 0.155          | 0                 | 0 | 0          | 412          |
| PL.21197                 | PL.21113    | A   | #4 ACSR            | 7.45Y     | 124.1        | 0.00            | 0.91          | 0.27         | 0        | 2          | 1    | 89      | 0.00                         | 0.0       | 4.437             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3020                  | PL.21197    | A   | 50T                | 7.45Y     | 124.1        | 0.00            | 0.91          | 0.27         | 0        | 2          | 1    | 89      | 0.00                         | 0.0       | 4.437             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.21198                 | PD.3020     | A   | #4 ACSR            | 7.45Y     | 124.1        | 0.00            | 0.91          | 0.27         | 0        | 2          | 1    | 89      | 0.00                         | 0.0       | 4.576             | 0.139          | 0                 | 0 | 0          | 2            |
| PL.20678                 | PL.21198    | A   | #4 ACSR            | 7.45Y     | 124.1        | 0.00            | 0.91          | 0.27         | 0        | 2          | 1    | 89      | 0.00                         | 0.0       | 4.721             | 0.144          | 2                 | 1 | 2          | 2            |
| PL.20784                 | PL.21113    | ABC | 336 MCM AC         | 7.44Y     | 124.0        | 0.05            | 0.96          | 67.68        | 13       | 1448       | 433  | 96      | 0.35                         | 0.0       | 4.524             | 0.091          | 0                 | 0 | 0          | 410          |
| PL.21185                 | PL.20784    | B   | #1/0 ACSR          | 7.44Y     | 124.0        | 0.00            | 0.96          | 1.15         | 0        | 8          | 2    | 97      | 0.00                         | 0.0       | 4.528             | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PD.3014                  | PL.21185    | B   | 50T                | 7.44Y     | 124.0        | 0.00            | 0.96          | 1.15         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 4.528             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.21186                 | PD.3014     | B   | #1/0 ACSR          | 7.44Y     | 124.0        | 0.00            | 0.96          | 1.15         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 4.589             | 0.061          | 8                 | 2 | 1          | 1            |
| PL.20925                 | PL.20784    | ABC | 336 MCM AC         | 7.44Y     | 124.0        | 0.02            | 0.98          | 67.30        | 13       | 1440       | 430  | 96      | 0.14       | 0.0       | 4.560             | 0.036          | 0                 | 0 | 1          | 409          |
| PL.20972                 | PL.20925    | ABC | 336 MCM AC         | 7.44Y     | 123.9        | 0.10            | 1.07          | 67.28        | 13       | 1439       | 429  | 96      | 0.72       | 0.0       | 4.747             | 0.188          | 0                 | 0 | 0          | 406          |
| PL.21245                 | PL.20972    | ABC | 336 MCM AC         | 7.44Y     | 123.9        | 0.00            | 1.07          | 67.28        | 13       | 1439       | 428  | 96      | 0.01       | 0.0       | 4.750             | 0.003          | 0                 | 0 | 0          | 406          |
| PD.3048                  | PL.21245    | ABC | 100L               | 7.44Y     | 123.9        | 0.00            | 1.07          | 67.28        | 67       | 1439       | 428  | 96      | 0.00       | 0.0       | 4.750             | 0.003          | 0                 | 0 | 0          | 406          |
| PL.21246                 | PD.3048     | ABC | 336 MCM AC         | 7.43Y     | 123.9        | 0.05            | 1.13          | 67.28        | 13       | 1439       | 428  | 96      | 0.39       | 0.0       | 4.853             | 0.103          | 5                 | 1 | 1          | 406          |
| PL.20971                 | PL.21246    | ABC | 336 MCM AC         | 7.43Y     | 123.8        | 0.07            | 1.19          | 67.06        | 13       | 1433       | 425  | 96      | 0.50       | 0.0       | 4.985             | 0.132          | 0                 | 0 | 0          | 405          |
| PL.20856                 | PL.20971    | ABC | 336 MCM AC         | 7.42Y     | 123.7        | 0.06            | 1.25          | 67.06        | 13       | 1433       | 424  | 96      | 0.45       | 0.0       | 5.104             | 0.118          | 0                 | 0 | 0          | 405          |
| PL.20969                 | PL.20856    | ABC | 336 MCM AC         | 7.42Y     | 123.7        | 0.05            | 1.31          | 67.06        | 13       | 1432       | 423  | 96      | 0.39       | 0.0       | 5.208             | 0.104          | 0                 | 0 | 1          | 405          |
| PL.20970                 | PL.20969    | ABC | 336 MCM AC         | 7.42Y     | 123.6        | 0.07            | 1.38          | 67.04        | 13       | 1432       | 422  | 96      | 0.54       | 0.0       | 5.350             | 0.143          | 0                 | 0 | 0          | 404          |
| PL.20857                 | PL.20970    | ABC | 336 MCM AC         | 7.42Y     | 123.6        | 0.02            | 1.40          | 67.04        | 13       | 1431       | 421  | 96      | 0.19       | 0.0       | 5.399             | 0.049          | 0                 | 0 | 0          | 404          |
| PL.20604                 | PL.20857    | A   | #1/0 ACSR          | 7.42Y     | 123.6        | 0.00            | 1.40          | 1.24         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 5.404             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.2985                  | PL.20604    | A   | 40T                | 7.42Y     | 123.6        | 0.00            | 1.40          | 1.24         | 0        | 9          | 3    | 95      | 0.00       | 0.0       | 5.404             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.20605                 | PD.2985     | A   | #1/0 ACSR          | 7.42Y     | 123.6        | 0.00            | 1.41          | 1.24         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 5.447             | 0.043          | 1                 | 0 | 1          | 2            |
| PL.20531                 | PL.20605    | A   | 6 A (CWC)          | 7.42Y     | 123.6        | 0.00            | 1.41          | 1.08         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 5.631             | 0.183          | 8                 | 2 | 1          | 1            |
| PL.20785                 | PL.20531    | ABC | 336 MCM AC         | 7.41Y     | 123.6        | 0.04            | 1.44          | 66.62        | 13       | 1422       | 418  | 96      | 0.29       | 0.0       | 5.477             | 0.078          | 0                 | 0 | 0          | 402          |
| PL.20858                 | PL.20785    | ABC | 336 MCM AC         | 7.41Y     | 123.5        | 0.04            | 1.49          | 66.62        | 13       | 1422       | 417  | 96      | 0.31       | 0.0       | 5.560             | 0.083          | 0                 | 0 | 0          | 402          |
| PL.21241                 | PL.20858    | ABC | 336 MCM AC         | 7.41Y     | 123.5        | 0.04            | 1.52          | 66.62        | 13       | 1421       | 416  | 96      | 0.29       | 0.0       | 5.638             | 0.078          | 0                 | 0 | 0          | 402          |
| PD.3046-A                | PL.21241    | ABC | Closed             | 7.41Y     | 123.5        | 0.00            | 1.52          | 66.62        | 0        | 1421       | 416  | 96      | 0.00       | 0.0       | 5.638             | 0.078          | 0                 | 0 | 0          | 402          |
| PD.3046-B                | PD.3046-A   | ABC | Closed             | 7.41Y     | 123.5        | 0.00            | 1.52          | 66.62        | 0        | 1421       | 416  | 96      | 0.00       | 0.0       | 5.638             | 0.078          | 0                 | 0 | 0          | 402          |
| PL.21242                 | PD.3046-B   | ABC | 336 MCM AC         | 7.41Y     | 123.5        | 0.02            | 1.54          | 66.62        | 13       | 1421       | 416  | 96      | 0.14       | 0.0       | 5.676             | 0.038          | 0                 | 0 | 0          | 402          |
| PL.20786                 | PL.21242    | ABC | 336 MCM AC         | 7.41Y     | 123.4        | 0.03            | 1.57          | 51.25        | 10       | 1093       | 322  | 96      | 0.16       | 0.0       | 5.749             | 0.073          | 10                | 3 | 1          | 266          |
| PL.20930                 | PL.20786    | ABC | 336 MCM AC         | 7.40Y     | 123.4        | 0.04            | 1.61          | 50.77        | 10       | 1082       | 318  | 96      | 0.23       | 0.0       | 5.857             | 0.108          | 3                 | 1 | 3          | 265          |
| PL.20602                 | PL.20930    | C   | #2 ACSR            | 7.40Y     | 123.4        | 0.00            | 1.61          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.862             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.2984                  | PL.20602    | C   | 40T                | 7.40Y     | 123.4        | 0.00            | 1.61          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.862             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.20603                 | PD.2984     | C   | #2 ACSR            | 7.40Y     | 123.4        | 0.00            | 1.61          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.908             | 0.046          | 0                 | 0 | 1          | 1            |
| PL.20966                 | PL.20603    | ABC | 336 MCM AC         | 7.40Y     | 123.4        | 0.01            | 1.63          | 50.60        | 10       | 1078       | 317  | 96      | 0.07       | 0.0       | 5.889             | 0.032          | 4                 | 1 | 1          | 261          |
| PL.20967                 | PL.20966    | ABC | 336 MCM AC         | 7.40Y     | 123.3        | 0.04            | 1.67          | 50.41        | 10       | 1074       | 315  | 96      | 0.23       | 0.0       | 5.997             | 0.108          | 4                 | 1 | 1          | 260          |
| PL.20961                 | PL.20967    | ABC | 336 MCM AC         | 7.40Y     | 123.3        | 0.02            | 1.69          | 50.25        | 10       | 1070       | 314  | 96      | 0.14       | 0.0       | 6.061             | 0.064          | 0                 | 0 | 1          | 259          |
| PL.20929                 | PL.20961    | ABC | 336 MCM AC         | 7.40Y     | 123.3        | 0.01            | 1.70          | 49.71        | 10       | 1059       | 310  | 96      | 0.07       | 0.0       | 6.093             | 0.032          | 7                 | 2 | 3          | 257          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.20696                 | PL.20929    | ABC | 336 MCM AC         | 7.40Y     | 123.3        | 0.02            | 1.72          | 49.38        | 10       | 1052       | 308  | 96      | 0.09       | 0.0       | 6.135             | 0.042          | 2                 | 0 | 1          | 254          |
| PL.20926                 | PL.20696    | ABC | #1/0 ACSR          | 7.39Y     | 123.2        | 0.11            | 1.83          | 48.60        | 21       | 1035       | 303  | 96      | 0.78       | 0.1       | 6.259             | 0.125          | 0                 | 0 | 0          | 249          |
| PL.20596                 | PL.20926    | C   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.00            | 1.83          | 2.30         | 2        | 16         | 5    | 95      | 0.00       | 0.0       | 6.264             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.2982                  | PL.20596    | C   | 40T                | 7.39Y     | 123.2        | 0.00            | 1.83          | 2.30         | 0        | 16         | 5    | 95      | 0.00       | 0.0       | 6.264             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.20597                 | PD.2982     | C   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.00            | 1.83          | 2.30         | 2        | 16         | 5    | 95      | 0.00       | 0.0       | 6.338             | 0.074          | 16                | 5 | 2          | 2            |
| PL.20598                 | PL.20926    | ABC | #1/0 ACSR          | 7.39Y     | 123.2        | 0.00            | 1.83          | 47.68        | 21       | 1014       | 297  | 96      | 0.03       | 0.0       | 6.263             | 0.004          | 0                 | 0 | 0          | 245          |
| PL.20599                 | PL.20598    | ABC | #1/0 ACSR          | 7.39Y     | 123.1        | 0.06            | 1.89          | 47.68        | 21       | 1014       | 297  | 96      | 0.40       | 0.0       | 6.329             | 0.066          | 0                 | 0 | 0          | 245          |
| PL.20700                 | PL.20599    | ABC | #1/0 ACSR          | 7.38Y     | 123.0        | 0.09            | 1.98          | 47.68        | 21       | 1014       | 297  | 96      | 0.62       | 0.1       | 6.431             | 0.103          | 0                 | 0 | 0          | 245          |
| PL.20795                 | PL.20700    | ABC | #1/0 ACSR          | 7.38Y     | 123.0        | 0.04            | 2.02          | 47.59        | 21       | 1012       | 295  | 96      | 0.28       | 0.0       | 6.478             | 0.047          | 0                 | 0 | 0          | 244          |
| PL.20863                 | PL.20795    | ABC | #1/0 ACSR          | 7.37Y     | 122.9        | 0.09            | 2.11          | 47.59        | 21       | 1011       | 295  | 96      | 0.63       | 0.1       | 6.583             | 0.105          | 0                 | 0 | 0          | 244          |
| PL.20864                 | PL.20863    | ABC | #1/0 ACSR          | 7.37Y     | 122.8        | 0.10            | 2.21          | 47.59        | 21       | 1011       | 295  | 96      | 0.72       | 0.1       | 6.702             | 0.119          | 0                 | 0 | 0          | 244          |
| PL.20584                 | PL.20864    | ABC | #1/0 ACSR          | 7.36Y     | 122.7        | 0.12            | 2.34          | 47.33        | 21       | 1004       | 292  | 96      | 0.85       | 0.1       | 6.845             | 0.143          | 0                 | 0 | 0          | 243          |
| PL.20585                 | PL.20584    | ABC | #1/0 ACSR          | 7.36Y     | 122.7        | 0.00            | 2.34          | 47.33        | 21       | 1004       | 291  | 96      | 0.03       | 0.0       | 6.849             | 0.004          | 10                | 3 | 2          | 243          |
| PL.21225                 | PL.20585    | C   | #2 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.854             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3035                  | PL.21225    | C   | 40T                | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.854             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.21226                 | PD.3035     | C   | #2 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.892             | 0.038          | 2                 | 1 | 2          | 2            |
| PL.21227                 | PL.20585    | ABC | #1/0 ACSR          | 7.36Y     | 122.7        | 0.00            | 2.34          | 46.61        | 20       | 988        | 287  | 96      | 0.03       | 0.0       | 6.854             | 0.004          | 0                 | 0 | 0          | 236          |
| PL.21228                 | PL.21227    | ABC | #1/0 ACSR          | 7.36Y     | 122.6        | 0.07            | 2.42          | 46.61        | 20       | 988        | 287  | 96      | 0.50       | 0.1       | 6.940             | 0.086          | 0                 | 0 | 0          | 236          |
| PL.20865                 | PL.21228    | ABC | #1/0 ACSR          | 7.35Y     | 122.4        | 0.14            | 2.55          | 46.61        | 20       | 988        | 287  | 96      | 0.93       | 0.1       | 7.101             | 0.161          | 0                 | 0 | 0          | 236          |
| PL.20923                 | PL.20865    | ABC | #1/0 ACSR          | 7.34Y     | 122.4        | 0.07            | 2.63          | 46.61        | 20       | 987        | 286  | 96      | 0.51       | 0.1       | 7.189             | 0.088          | 10                | 3 | 3          | 236          |
| PL.20618                 | PL.20923    | B   | #4 ACSR            | 7.34Y     | 122.4        | 0.00            | 2.63          | 2.24         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 7.193             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.2992                  | PL.20618    | B   | 15T                | 7.34Y     | 122.4        | 0.00            | 2.63          | 2.24         | 0        | 16         | 4    | 97      | 0.00       | 0.0       | 7.193             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.20619                 | PD.2992     | B   | #4 ACSR            | 7.34Y     | 122.4        | 0.02            | 2.64          | 2.24         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 7.377             | 0.184          | 0                 | 0 | 0          | 2            |
| PL.21016                 | PL.20619    | B   | #4 ACSR            | 7.34Y     | 122.3        | 0.02            | 2.66          | 2.24         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 7.532             | 0.155          | 0                 | 0 | 0          | 2            |
| PL.20869                 | PL.21016    | B   | #4 ACSR            | 7.34Y     | 122.3        | 0.01            | 2.67          | 2.24         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 7.624             | 0.092          | 0                 | 0 | 0          | 2            |
| PL.20708                 | PL.20869    | B   | #4 ACSR            | 7.34Y     | 122.3        | 0.01            | 2.67          | 1.15         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 7.737             | 0.113          | 0                 | 0 | 0          | 1            |
| PL.20707                 | PL.20708    | B   | #4 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.872             | 0.136          | 0                 | 0 | 0          | 0            |
| PL.20870                 | PL.20707    | B   | #4 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.948             | 0.075          | 0                 | 0 | 0          | 0            |
| PL.20706                 | PL.20708    | B   | #4 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.68          | 1.15         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 7.847             | 0.111          | 8                 | 2 | 1          | 1            |
| PL.20825                 | PL.20869    | B   | #4 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.67          | 1.10         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 7.696             | 0.072          | 0                 | 0 | 0          | 1            |
| PL.20709                 | PL.20825    | B   | #2 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.67          | 1.10         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 7.741             | 0.045          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.20924                 | PL.20923    | ABC | #1/0 ACSR          | 7.34Y     | 122.4        | 0.02            | 2.64          | 45.40        | 20       | 961        | 278  | 96      | 0.11       | 0.0       | 7.209             | 0.020          | 8                 | 2 | 4          | 231          |
| PL.20705                 | PL.20924    | ABC | #1/0 ACSR          | 7.34Y     | 122.3        | 0.06            | 2.70          | 45.03        | 20       | 953        | 276  | 96      | 0.36       | 0.0       | 7.277             | 0.068          | 9                 | 3 | 1          | 227          |
| PL.20922                 | PL.20705    | ABC | #1/0 ACSR          | 7.33Y     | 122.2        | 0.07            | 2.77          | 44.59        | 19       | 943        | 273  | 96      | 0.49       | 0.1       | 7.369             | 0.092          | 2                 | 1 | 2          | 226          |
| PL.21014                 | PL.20922    | ABC | #1/0 ACSR          | 7.33Y     | 122.2        | 0.05            | 2.82          | 44.13        | 19       | 933        | 270  | 96      | 0.30       | 0.0       | 7.428             | 0.059          | 5                 | 2 | 1          | 219          |
| PL.21015                 | PL.21014    | ABC | #1/0 ACSR          | 7.33Y     | 122.1        | 0.04            | 2.86          | 43.88        | 19       | 927        | 268  | 96      | 0.25       | 0.0       | 7.475             | 0.048          | 0                 | 0 | 0          | 218          |
| PL.20620                 | PL.21015    | C   | #4 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.86          | 0.03         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.480             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.2993                  | PL.20620    | C   | 40T                | 7.33Y     | 122.1        | 0.00            | 2.86          | 0.03         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.480             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.20621                 | PD.2993     | C   | #4 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.86          | 0.03         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.530             | 0.050          | 0                 | 0 | 1          | 1            |
| PL.20797                 | PL.21015    | ABC | #1/0 ACSR          | 7.33Y     | 122.1        | 0.06            | 2.92          | 43.87        | 19       | 927        | 267  | 96      | 0.38       | 0.0       | 7.549             | 0.073          | 0                 | 0 | 0          | 217          |
| PL.20624                 | PL.20797    | A   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 7.553             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.2995                  | PL.20624    | A   | 15T                | 7.33Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 7.553             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.20625                 | PD.2995     | A   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 7.643             | 0.090          | 0                 | 0 | 0          | 1            |
| PL.21011                 | PL.20625    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 7.814             | 0.171          | 0                 | 0 | 0          | 1            |
| PL.20710                 | PL.21011    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.920             | 0.106          | 0                 | 0 | 0          | 0            |
| PL.20871                 | PL.20710    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.012             | 0.092          | 0                 | 0 | 0          | 0            |
| PL.20799                 | PL.21011    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 7.876             | 0.062          | 0                 | 0 | 0          | 1            |
| PL.21007                 | PL.20799    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 7.889             | 0.013          | 0                 | 0 | 0          | 1            |
| PL.21008                 | PL.21007    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 8.001             | 0.112          | 0                 | 0 | 0          | 1            |
| PL.21009                 | PL.21008    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 8.133             | 0.132          | 0                 | 0 | 0          | 1            |
| PL.21010                 | PL.21009    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 8.252             | 0.119          | 0                 | 0 | 0          | 1            |
| PL.20872                 | PL.21010    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 8.371             | 0.118          | 0                 | 0 | 0          | 1            |
| PL.20712                 | PL.20872    | A   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.408             | 0.037          | 0                 | 0 | 0          | 0            |
| PL.20800                 | PL.20872    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.93          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 8.493             | 0.122          | 0                 | 0 | 0          | 1            |
| PL.20873                 | PL.20800    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.93          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 8.586             | 0.094          | 2                 | 0 | 1          | 1            |
| PL.20711                 | PL.21008    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.184             | 0.182          | 0                 | 0 | 0          | 0            |
| PL.20798                 | PL.20797    | ABC | #1/0 ACSR          | 7.32Y     | 122.0        | 0.06            | 2.98          | 43.79        | 19       | 925        | 267  | 96      | 0.38       | 0.0       | 7.625             | 0.076          | 15                | 4 | 2          | 216          |
| PL.20616                 | PL.20798    | C   | #1/0 ACSR          | 7.32Y     | 122.0        | 0.00            | 2.98          | 1.83         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 7.629             | 0.004          | 0                 | 0 | 0          | 2            |
| PD.2991                  | PL.20616    | C   | 40T                | 7.32Y     | 122.0        | 0.00            | 2.98          | 1.83         | 0        | 13         | 4    | 96      | 0.00       | 0.0       | 7.629             | 0.004          | 0                 | 0 | 0          | 2            |
| PL.20617                 | PD.2991     | C   | #1/0 ACSR          | 7.32Y     | 122.0        | 0.00            | 2.98          | 1.83         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 7.683             | 0.054          | 7                 | 2 | 1          | 2            |
| PL.21012                 | PL.20617    | C   | #1/0 ACSR          | 7.32Y     | 122.0        | 0.00            | 2.98          | 0.79         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 7.710             | 0.027          | 6                 | 2 | 1          | 1            |
| PL.21017                 | PL.20798    | ABC | #1/0 ACSR          | 7.32Y     | 122.0        | 0.05            | 3.03          | 42.47        | 18       | 896        | 258  | 96      | 0.33       | 0.0       | 7.694             | 0.069          | 14                | 4 | 3          | 212          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.21018                 | PL.21017    | ABC | #1/0 ACSR          | 7.31Y     | 121.9        | 0.07            | 3.10          | 41.79        | 18       | 882        | 254  | 96      | 0.43       | 0.0       | 7.790             | 0.096          | 31                | 9 | 4          | 209          |
| PL.21019                 | PL.21018    | ABC | #1/0 ACSR          | 7.31Y     | 121.8        | 0.07            | 3.17          | 40.30        | 18       | 850        | 245  | 96      | 0.40       | 0.0       | 7.884             | 0.094          | 11                | 3 | 1          | 205          |
| PL.20626                 | PL.21019    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.00            | 3.17          | 0.27         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.889             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.2996                  | PL.20626    | A   | 40T                | 7.31Y     | 121.8        | 0.00            | 3.17          | 0.27         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.889             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.20627                 | PD.2996     | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.00            | 3.17          | 0.27         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.944             | 0.055          | 2                 | 0 | 1          | 3            |
| PL.21020                 | PL.20627    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.00            | 3.17          | 0.04         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.974             | 0.030          | 0                 | 0 | 2          | 2            |
| PL.21021                 | PL.21019    | ABC | #1/0 ACSR          | 7.31Y     | 121.8        | 0.02            | 3.19          | 39.71        | 17       | 837        | 241  | 96      | 0.12       | 0.0       | 7.912             | 0.028          | 0                 | 0 | 1          | 201          |
| PL.21022                 | PL.21021    | ABC | #1/0 ACSR          | 7.31Y     | 121.8        | 0.04            | 3.23          | 39.69        | 17       | 836        | 241  | 96      | 0.22       | 0.0       | 7.966             | 0.053          | 1                 | 0 | 1          | 200          |
| PL.21023                 | PL.21022    | ABC | #1/0 ACSR          | 7.30Y     | 121.7        | 0.05            | 3.28          | 39.65        | 17       | 835        | 240  | 96      | 0.29       | 0.0       | 8.036             | 0.070          | 0                 | 0 | 0          | 199          |
| PL.20801                 | PL.21023    | ABC | #1/0 ACSR          | 7.30Y     | 121.6        | 0.08            | 3.36          | 37.16        | 16       | 783        | 225  | 96      | 0.43       | 0.1       | 8.152             | 0.117          | 0                 | 0 | 0          | 185          |
| PL.20874                 | PL.20801    | ABC | #1/0 ACSR          | 7.29Y     | 121.6        | 0.08            | 3.44          | 37.16        | 16       | 782        | 225  | 96      | 0.45       | 0.1       | 8.275             | 0.122          | 0                 | 0 | 0          | 185          |
| PL.21037                 | PL.20874    | ABC | #1/0 ACSR          | 7.29Y     | 121.5        | 0.08            | 3.51          | 37.16        | 16       | 782        | 224  | 96      | 0.42       | 0.1       | 8.389             | 0.115          | 9                 | 3 | 1          | 185          |
| PL.21038                 | PL.21037    | ABC | #1/0 ACSR          | 7.29Y     | 121.5        | 0.03            | 3.55          | 36.74        | 16       | 772        | 221  | 96      | 0.17       | 0.0       | 8.438             | 0.048          | 14                | 4 | 2          | 184          |
| PL.21039                 | PL.21038    | ABC | #1/0 ACSR          | 7.29Y     | 121.4        | 0.03            | 3.58          | 36.08        | 16       | 758        | 217  | 96      | 0.18       | 0.0       | 8.491             | 0.053          | 0                 | 0 | 0          | 182          |
| PL.21169                 | PL.21039    | A   | 6 A (CWC)          | 7.29Y     | 121.4        | 0.00            | 3.58          | 1.99         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 8.495             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3007                  | PL.21169    | A   | 40T                | 7.29Y     | 121.4        | 0.00            | 3.58          | 1.99         | 0        | 14         | 4    | 96      | 0.00       | 0.0       | 8.495             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.21170                 | PD.3007     | A   | 6 A (CWC)          | 7.29Y     | 121.4        | 0.00            | 3.58          | 1.99         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 8.513             | 0.017          | 4                 | 1 | 1          | 2            |
| PL.20724                 | PL.21170    | A   | #4 ACSR            | 7.28Y     | 121.4        | 0.00            | 3.59          | 1.36         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 8.595             | 0.083          | 10                | 3 | 1          | 1            |
| PL.20806                 | PL.21039    | ABC | #1/0 ACSR          | 7.28Y     | 121.4        | 0.01            | 3.60          | 35.41        | 15       | 744        | 213  | 96      | 0.08       | 0.0       | 8.513             | 0.023          | 0                 | 0 | 0          | 180          |
| PL.21040                 | PL.20806    | ABC | #1/0 ACSR          | 7.28Y     | 121.4        | 0.03            | 3.63          | 35.41        | 15       | 744        | 213  | 96      | 0.16       | 0.0       | 8.560             | 0.046          | 0                 | 0 | 0          | 180          |
| PL.21041                 | PL.21040    | ABC | #1/0 ACSR          | 7.28Y     | 121.3        | 0.04            | 3.67          | 35.41        | 15       | 744        | 213  | 96      | 0.23       | 0.0       | 8.629             | 0.069          | 0                 | 0 | 0          | 180          |
| PL.20875                 | PL.21041    | ABC | #1/0 ACSR          | 7.28Y     | 121.3        | 0.06            | 3.73          | 35.41        | 15       | 744        | 213  | 96      | 0.29       | 0.0       | 8.717             | 0.088          | 0                 | 0 | 0          | 180          |
| PL.20876                 | PL.20875    | ABC | #1/0 ACSR          | 7.27Y     | 121.2        | 0.05            | 3.77          | 35.41        | 15       | 743        | 212  | 96      | 0.25       | 0.0       | 8.791             | 0.074          | 0                 | 0 | 0          | 180          |
| PL.21027                 | PL.20876    | ABC | #1/0 ACSR          | 7.27Y     | 121.2        | 0.06            | 3.83          | 35.41        | 15       | 743        | 212  | 96      | 0.29       | 0.0       | 8.880             | 0.089          | 19                | 5 | 3          | 180          |
| PL.21028                 | PL.21027    | ABC | #1/0 ACSR          | 7.27Y     | 121.1        | 0.06            | 3.90          | 34.52        | 15       | 724        | 207  | 96      | 0.33       | 0.0       | 8.984             | 0.104          | 8                 | 2 | 1          | 177          |
| PL.20918                 | PL.21028    | ABC | #1/0 ACSR          | 7.26Y     | 121.0        | 0.07            | 3.96          | 32.77        | 14       | 687        | 196  | 96      | 0.33       | 0.0       | 9.100             | 0.116          | 1                 | 0 | 1          | 170          |
| PL.20727                 | PL.20918    | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.97          | 6.54         | 5        | 46         | 13   | 96      | 0.00       | 0.0       | 9.105             | 0.005          | 0                 | 0 | 0          | 7            |
| PD.3002                  | PL.20727    | A   | 40T                | 7.26Y     | 121.0        | 0.00            | 3.97          | 6.54         | 0        | 46         | 13   | 96      | 0.00       | 0.0       | 9.105             | 0.005          | 0                 | 0 | 0          | 7            |
| PL.20920                 | PD.3002     | A   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.00            | 3.97          | 3.69         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 9.110             | 0.006          | 0                 | 0 | 0          | 5            |
| PL.20921                 | PL.20920    | A   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.00            | 3.97          | 3.69         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 9.110             | 0.000          | 0                 | 0 | 0          | 5            |
| PL.20725                 | PL.20921    | A   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.01            | 3.98          | 3.69         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 9.217             | 0.107          | 26                | 7 | 5          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.20807                 | PD.3002     | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.97          | 2.85         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 9.129             | 0.025          | 20                | 6 | 2          | 2            |
| PL.20919                 | PL.20918    | ABC | #1/0 ACSR          | 7.26Y     | 121.0        | 0.06            | 4.02          | 30.53        | 13       | 640        | 182  | 96      | 0.25       | 0.0       | 9.201             | 0.101          | 15                | 4 | 2          | 162          |
| PL.21161                 | PL.20919    | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 4.02          | 1.42         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 9.206             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3003                  | PL.21161    | A   | 40T                | 7.26Y     | 121.0        | 0.00            | 4.02          | 1.42         | 0        | 10         | 3    | 96      | 0.00       | 0.0       | 9.206             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.21162                 | PD.3003     | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 4.02          | 1.42         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 9.243             | 0.037          | 10                | 3 | 2          | 2            |
| PL.21029                 | PL.20919    | ABC | #1/0 ACSR          | 7.26Y     | 121.0        | 0.02            | 4.03          | 29.34        | 13       | 614        | 175  | 96      | 0.07       | 0.0       | 9.231             | 0.030          | 0                 | 0 | 1          | 158          |
| PL.21030                 | PL.21029    | ABC | #1/0 ACSR          | 7.26Y     | 120.9        | 0.03            | 4.06          | 29.34        | 13       | 614        | 175  | 96      | 0.11       | 0.0       | 9.278             | 0.047          | 9                 | 2 | 2          | 157          |
| PL.21163                 | PL.21030    | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.00            | 4.06          | 0.81         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.283             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3004                  | PL.21163    | C   | 40T                | 7.26Y     | 120.9        | 0.00            | 4.06          | 0.81         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 9.283             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.21164                 | PD.3004     | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.00            | 4.06          | 0.81         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.331             | 0.048          | 6                 | 2 | 1          | 1            |
| PL.20728                 | PL.21164    | C   | #4 ACSR            | 7.26Y     | 120.9        | 0.00            | 4.06          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.353             | 0.022          | 0                 | 0 | 0          | 0            |
| PL.20915                 | PL.21030    | ABC | #1/0 ACSR          | 7.25Y     | 120.9        | 0.05            | 4.11          | 28.66        | 12       | 600        | 171  | 96      | 0.22       | 0.0       | 9.380             | 0.102          | 0                 | 0 | 0          | 154          |
| PL.20729                 | PL.20915    | ABC | #1/0 ACSR          | 7.25Y     | 120.8        | 0.05            | 4.16          | 28.01        | 12       | 586        | 167  | 96      | 0.21       | 0.0       | 9.480             | 0.100          | 0                 | 0 | 0          | 151          |
| PL.20808                 | PL.20729    | ABC | #1/0 ACSR          | 7.25Y     | 120.8        | 0.02            | 4.18          | 27.22        | 12       | 569        | 162  | 96      | 0.07       | 0.0       | 9.517             | 0.036          | 0                 | 0 | 0          | 146          |
| PL.20732                 | PL.20808    | ABC | #1/0 ACSR          | 7.25Y     | 120.8        | 0.03            | 4.21          | 27.15        | 12       | 568        | 161  | 96      | 0.11       | 0.0       | 9.575             | 0.058          | 0                 | 0 | 0          | 144          |
| PL.20809                 | PL.20732    | ABC | #1/0 ACSR          | 7.24Y     | 120.7        | 0.06            | 4.27          | 26.97        | 12       | 564        | 160  | 96      | 0.24       | 0.0       | 9.698             | 0.123          | 0                 | 0 | 0          | 143          |
| PL.20735                 | PL.20809    | A   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.27          | 2.62         | 1        | 18         | 5    | 96      | 0.00       | 0.0       | 9.703             | 0.005          | 0                 | 0 | 0          | 4            |
| PD.3000                  | PL.20735    | A   | 40T                | 7.24Y     | 120.7        | 0.00            | 4.27          | 2.62         | 0        | 18         | 5    | 96      | 0.00       | 0.0       | 9.703             | 0.005          | 0                 | 0 | 0          | 4            |
| PL.20908                 | PD.3000     | A   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.27          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.712             | 0.009          | 0                 | 0 | 0          | 2            |
| PL.20909                 | PL.20908    | A   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.27          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.712             | 0.000          | 0                 | 0 | 0          | 2            |
| PL.20767                 | PL.20909    | A   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.27          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.725             | 0.012          | 0                 | 0 | 0          | 2            |
| PL.20812                 | PL.20767    | A   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.27          | 0.73         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 9.816             | 0.092          | 5                 | 1 | 1          | 1            |
| PL.20734                 | PL.20767    | A   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.27          | 0.78         | 0        | 5          | 2    | 93      | 0.00       | 0.0       | 9.773             | 0.049          | 5                 | 2 | 1          | 1            |
| PL.20811                 | PD.3000     | A   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.27          | 1.11         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 9.739             | 0.036          | 8                 | 2 | 2          | 2            |
| PL.20810                 | PL.20809    | ABC | #1/0 ACSR          | 7.24Y     | 120.7        | 0.02            | 4.29          | 26.10        | 11       | 546        | 155  | 96      | 0.09       | 0.0       | 9.749             | 0.051          | 0                 | 0 | 0          | 139          |
| PL.21159                 | PL.20810    | A   | #2 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.29          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.753             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3001                  | PL.21159    | A   | 40T                | 7.24Y     | 120.7        | 0.00            | 4.29          | 0.90         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 9.753             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.21160                 | PD.3001     | A   | #2 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.29          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.756             | 0.003          | 6                 | 2 | 1          | 1            |
| PL.20736                 | PL.20810    | ABC | #1/0 ACSR          | 7.24Y     | 120.7        | 0.04            | 4.34          | 25.80        | 11       | 539        | 153  | 96      | 0.17       | 0.0       | 9.845             | 0.095          | 0                 | 0 | 0          | 138          |
| PL.20878                 | PL.20736    | ABC | #1/0 ACSR          | 7.24Y     | 120.6        | 0.05            | 4.39          | 25.80        | 11       | 539        | 153  | 96      | 0.18       | 0.0       | 9.947             | 0.103          | 0                 | 0 | 0          | 138          |
| PL.21051                 | PL.20878    | ABC | #1/0 ACSR          | 7.24Y     | 120.6        | 0.02            | 4.41          | 25.80        | 11       | 539        | 153  | 96      | 0.09       | 0.0       | 9.998             | 0.051          | 1                 | 0 | 1          | 138          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.21052                 | PL.21051    | ABC | #1/0 ACSR          | 7.23Y     | 120.6        | 0.02            | 4.43          | 25.77        | 11       | 538        | 152  | 96      | 0.06       | 0.0       | 10.032            | 0.034          | 0                 | 0 | 0          | 137          |
| PL.20813                 | PL.21052    | ABC | #1/0 ACSR          | 7.23Y     | 120.5        | 0.06            | 4.48          | 24.47        | 11       | 511        | 145  | 96      | 0.20       | 0.0       | 10.157            | 0.125          | 0                 | 0 | 0          | 130          |
| PL.20879                 | PL.20813    | ABC | #1/0 ACSR          | 7.23Y     | 120.5        | 0.04            | 4.53          | 24.47        | 11       | 511        | 145  | 96      | 0.16       | 0.0       | 10.255            | 0.098          | 0                 | 0 | 0          | 130          |
| PL.21173                 | PL.20879    | C   | #2 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.53          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.260            | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3009                  | PL.21173    | C   | 40T                | 7.23Y     | 120.5        | 0.00            | 4.53          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.260            | 0.005          | 0                 | 0 | 0          | 1            |
| PL.21174                 | PD.3009     | C   | #2 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.53          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.293            | 0.034          | 3                 | 1 | 1          | 1            |
| PL.21050                 | PL.21174    | C   | #2 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.53          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.395            | 0.102          | 0                 | 0 | 0          | 0            |
| PL.21047                 | PL.20879    | ABC | #1/0 ACSR          | 7.23Y     | 120.5        | 0.02            | 4.54          | 24.32        | 11       | 507        | 143  | 96      | 0.06       | 0.0       | 10.291            | 0.036          | 13                | 4 | 6          | 129          |
| PL.21048                 | PL.21047    | ABC | #1/0 ACSR          | 7.23Y     | 120.4        | 0.02            | 4.56          | 23.68        | 10       | 494        | 140  | 96      | 0.06       | 0.0       | 10.329            | 0.038          | 8                 | 2 | 1          | 123          |
| PL.21049                 | PL.21048    | ABC | #1/0 ACSR          | 7.23Y     | 120.4        | 0.02            | 4.58          | 23.30        | 10       | 486        | 137  | 96      | 0.07       | 0.0       | 10.378            | 0.050          | 7                 | 2 | 3          | 122          |
| PL.21171                 | PL.21049    | B   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.00            | 4.58          | 1.22         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 10.383            | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3008                  | PL.21171    | B   | 40T                | 7.23Y     | 120.4        | 0.00            | 4.58          | 1.22         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 10.383            | 0.005          | 0                 | 0 | 0          | 2            |
| PL.21172                 | PD.3008     | B   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.00            | 4.58          | 1.22         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 10.438            | 0.055          | 8                 | 2 | 2          | 2            |
| PL.20906                 | PL.21049    | ABC | #1/0 ACSR          | 7.22Y     | 120.4        | 0.01            | 4.59          | 22.56        | 10       | 471        | 133  | 96      | 0.04       | 0.0       | 10.410            | 0.031          | 3                 | 1 | 1          | 117          |
| PL.20737                 | PL.20906    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.02            | 4.61          | 35.07        | 27       | 244        | 69   | 96      | 0.04       | 0.0       | 10.422            | 0.012          | 0                 | 0 | 0          | 63           |
| PL.20738                 | PL.20737    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.04            | 4.64          | 32.35        | 25       | 225        | 64   | 96      | 0.06       | 0.0       | 10.446            | 0.024          | 0                 | 0 | 0          | 58           |
| PL.21247                 | PL.20738    | C   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.00            | 4.65          | 32.35        | 23       | 225        | 64   | 96      | 0.01       | 0.0       | 10.449            | 0.003          | 0                 | 0 | 0          | 58           |
| C PD.3049                | PL.21247    | C   | 35L                | 7.22Y     | 120.4        | 0.00            | 4.65          | 32.35        | 92       | 225        | 64   | 96      | 0.00       | 0.0       | 10.449            | 0.003          | 0                 | 0 | 0          | 58 C         |
| PL.21248                 | PD.3049     | C   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.07            | 4.72          | 32.35        | 23       | 225        | 64   | 96      | 0.12       | 0.1       | 10.501            | 0.053          | 20                | 6 | 5          | 58           |
| PL.20901                 | PL.21248    | C   | 6 A (CWC)          | 7.21Y     | 120.2        | 0.04            | 4.77          | 29.45        | 21       | 204        | 58   | 96      | 0.07       | 0.0       | 10.534            | 0.033          | 0                 | 0 | 0          | 51           |
| PL.20902                 | PL.20901    | C   | 6 A (CWC)          | 7.21Y     | 120.2        | 0.08            | 4.85          | 27.85        | 20       | 193        | 55   | 96      | 0.12       | 0.1       | 10.600            | 0.066          | 14                | 4 | 3          | 48           |
| PL.21177                 | PL.20902    | C   | 6 A (CWC)          | 7.21Y     | 120.1        | 0.01            | 4.86          | 6.24         | 4        | 43         | 12   | 96      | 0.00       | 0.0       | 10.625            | 0.024          | 0                 | 0 | 0          | 15           |
| PD.3011                  | PL.21177    | C   | 15T                | 7.21Y     | 120.1        | 0.00            | 4.86          | 6.24         | 0        | 43         | 12   | 96      | 0.00       | 0.0       | 10.625            | 0.024          | 0                 | 0 | 0          | 15           |
| PL.21178                 | PD.3011     | C   | 6 A (CWC)          | 7.21Y     | 120.1        | 0.02            | 4.88          | 6.24         | 4        | 43         | 12   | 96      | 0.01       | 0.0       | 10.702            | 0.078          | 0                 | 0 | 0          | 15           |
| PL.20762                 | PL.21178    | C   | 6 A (CWC)          | 7.21Y     | 120.1        | 0.03            | 4.91          | 6.24         | 4        | 43         | 12   | 96      | 0.01       | 0.0       | 10.802            | 0.100          | 0                 | 0 | 0          | 15           |
| PL.20880                 | PL.20762    | C   | 6 A (CWC)          | 7.20Y     | 120.1        | 0.03            | 4.93          | 6.24         | 4        | 43         | 12   | 96      | 0.01       | 0.0       | 10.902            | 0.100          | 0                 | 0 | 0          | 15           |
| PL.21055                 | PL.20880    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.03            | 4.96          | 6.24         | 4        | 43         | 12   | 96      | 0.01       | 0.0       | 11.000            | 0.099          | 5                 | 1 | 5          | 15           |
| PL.21056                 | PL.21055    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.01            | 4.97          | 5.50         | 4        | 38         | 11   | 96      | 0.00       | 0.0       | 11.033            | 0.033          | 0                 | 0 | 1          | 10           |
| PL.21057                 | PL.21056    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.01            | 4.98          | 5.46         | 4        | 38         | 11   | 96      | 0.00       | 0.0       | 11.086            | 0.052          | 0                 | 0 | 0          | 9            |
| PL.20764                 | PL.21057    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.00            | 4.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.145            | 0.059          | 0                 | 0 | 0          | 1            |
| PL.20816                 | PL.20764    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.00            | 4.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.225            | 0.080          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.20765                 | PL.20764    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.00            | 4.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.171            | 0.026          | 0                 | 0 | 0          | 0            |
| PL.20815                 | PL.21057    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.01            | 4.99          | 5.42         | 4        | 38         | 11   | 96      | 0.00       | 0.0       | 11.109            | 0.023          | 0                 | 0 | 0          | 7            |
| PL.20817                 | PL.20815    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.01            | 4.99          | 2.71         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 11.200            | 0.091          | 18                | 5 | 2          | 3            |
| PL.21064                 | PL.20817    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.00            | 4.99          | 0.10         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 11.249            | 0.049          | 1                 | 0 | 1          | 1            |
| PL.21065                 | PL.21064    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.00            | 4.99          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.328            | 0.079          | 0                 | 0 | 0          | 0            |
| PL.20766                 | PL.20815    | C   | #1/0 ACSR          | 7.20Y     | 120.0        | 0.00            | 4.99          | 0.17         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 11.154            | 0.045          | 1                 | 0 | 1          | 1            |
| PL.21066                 | PL.20815    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.00            | 4.99          | 2.54         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 11.152            | 0.043          | 0                 | 0 | 2          | 3            |
| PL.21067                 | PL.21066    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.00            | 5.00          | 2.54         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 11.218            | 0.066          | 18                | 5 | 1          | 1            |
| PL.20763                 | PL.21057    | C   | #1/0 ACSR          | 7.20Y     | 120.0        | 0.00            | 4.98          | 0.03         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.101            | 0.016          | 0                 | 0 | 1          | 1            |
| PL.21058                 | PL.20902    | C   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.10            | 4.95          | 19.55        | 14       | 136        | 39   | 96      | 0.11       | 0.1       | 10.719            | 0.118          | 7                 | 2 | 2          | 30           |
| PL.21059                 | PL.21058    | C   | 6 A (CWC)          | 7.20Y     | 119.9        | 0.12            | 5.07          | 18.56        | 13       | 129        | 37   | 96      | 0.11       | 0.1       | 10.855            | 0.136          | 0                 | 0 | 0          | 28           |
| PL.20881                 | PL.21059    | C   | 6 A (CWC)          | 7.19Y     | 119.8        | 0.10            | 5.17          | 18.56        | 13       | 128        | 37   | 96      | 0.10       | 0.1       | 10.977            | 0.122          | 0                 | 0 | 0          | 28           |
| PL.20882                 | PL.20881    | C   | 6 A (CWC)          | 7.18Y     | 119.7        | 0.09            | 5.27          | 18.56        | 13       | 128        | 37   | 96      | 0.09       | 0.1       | 11.089            | 0.111          | 0                 | 0 | 0          | 28           |
| PL.20741                 | PL.20882    | C   | 6 A (CWC)          | 7.18Y     | 119.7        | 0.00            | 5.27          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.145            | 0.056          | 0                 | 0 | 0          | 0            |
| PL.21062                 | PL.20882    | C   | 6 A (CWC)          | 7.18Y     | 119.6        | 0.09            | 5.35          | 18.56        | 13       | 128        | 36   | 96      | 0.08       | 0.1       | 11.192            | 0.103          | 4                 | 1 | 1          | 28           |
| PL.21063                 | PL.21062    | C   | 6 A (CWC)          | 7.17Y     | 119.5        | 0.13            | 5.48          | 17.92        | 13       | 124        | 35   | 96      | 0.12       | 0.1       | 11.350            | 0.158          | 0                 | 0 | 0          | 27           |
| PL.21060                 | PL.21063    | C   | 6 A (CWC)          | 7.17Y     | 119.4        | 0.08            | 5.57          | 17.92        | 13       | 124        | 35   | 96      | 0.08       | 0.1       | 11.453            | 0.103          | 2                 | 1 | 1          | 27           |
| PL.21061                 | PL.21060    | C   | 6 A (CWC)          | 7.16Y     | 119.3        | 0.09            | 5.66          | 17.56        | 13       | 121        | 34   | 96      | 0.08       | 0.1       | 11.563            | 0.110          | 0                 | 0 | 0          | 26           |
| PL.20883                 | PL.21061    | C   | 6 A (CWC)          | 7.16Y     | 119.3        | 0.09            | 5.74          | 17.56        | 13       | 121        | 34   | 96      | 0.08       | 0.1       | 11.671            | 0.108          | 0                 | 0 | 0          | 26           |
| PL.20899                 | PL.20883    | C   | 6 A (CWC)          | 7.15Y     | 119.2        | 0.09            | 5.83          | 17.56        | 13       | 121        | 34   | 96      | 0.08       | 0.1       | 11.784            | 0.113          | 0                 | 0 | 0          | 26           |
| PL.20884                 | PL.20899    | C   | 6 A (CWC)          | 7.15Y     | 119.1        | 0.08            | 5.91          | 17.56        | 13       | 121        | 34   | 96      | 0.07       | 0.1       | 11.882            | 0.098          | 0                 | 0 | 0          | 26           |
| PL.20744                 | PL.20884    | C   | 6 A (CWC)          | 7.14Y     | 119.1        | 0.01            | 5.92          | 4.11         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 11.930            | 0.048          | 11                | 3 | 2          | 4            |
| PL.20742                 | PL.20744    | C   | #2 ACSR            | 7.14Y     | 119.1        | 0.00            | 5.92          | 1.76         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 12.007            | 0.077          | 12                | 3 | 1          | 1            |
| PL.20743                 | PL.20744    | C   | #2 ACSR            | 7.14Y     | 119.1        | 0.00            | 5.92          | 0.76         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 11.977            | 0.047          | 5                 | 1 | 1          | 1            |
| PL.20818                 | PL.20884    | C   | 6 A (CWC)          | 7.14Y     | 119.0        | 0.05            | 5.96          | 13.45        | 10       | 92         | 26   | 96      | 0.03       | 0.0       | 11.957            | 0.076          | 0                 | 0 | 0          | 22           |
| PL.20745                 | PL.20818    | C   | #4 ACSR            | 7.14Y     | 119.0        | 0.01            | 5.97          | 1.90         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 12.051            | 0.094          | 0                 | 0 | 0          | 3            |
| PL.20746                 | PL.20745    | C   | #1/0 ACSR          | 7.14Y     | 119.0        | 0.00            | 5.97          | 1.90         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 12.081            | 0.030          | 13                | 4 | 3          | 3            |
| PL.20819                 | PL.20818    | C   | 6 A (CWC)          | 7.14Y     | 119.0        | 0.04            | 6.00          | 11.55        | 8        | 79         | 22   | 96      | 0.03       | 0.0       | 12.040            | 0.082          | 0                 | 0 | 0          | 19           |
| PL.20826                 | PL.20819    | C   | 6 A (CWC)          | 7.13Y     | 118.9        | 0.09            | 6.09          | 11.55        | 8        | 79         | 22   | 96      | 0.05       | 0.1       | 12.207            | 0.167          | 0                 | 0 | 0          | 19           |
| PL.20820                 | PL.20826    | C   | 6 A (CWC)          | 7.13Y     | 118.9        | 0.05            | 6.14          | 9.19         | 7        | 63         | 18   | 96      | 0.02       | 0.0       | 12.325            | 0.118          | 4                 | 1 | 1          | 17           |
| PL.20748                 | PL.20820    | C   | #4 ACSR            | 7.13Y     | 118.9        | 0.01            | 6.15          | 2.25         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 12.461            | 0.136          | 9                 | 2 | 3          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.20749                 | PL.20748    | C   | #4 ACSR            | 7.13Y     | 118.8        | 0.00            | 6.15          | 1.01         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 12.531            | 0.070          | 7                 | 2 | 1          | 1            |
| PL.21042                 | PL.20820    | C   | 6 A (CWC)          | 7.13Y     | 118.8        | 0.04            | 6.18          | 6.29         | 4        | 43         | 12   | 96      | 0.01       | 0.0       | 12.471            | 0.147          | 7                 | 2 | 3          | 12           |
| PL.21043                 | PL.21042    | C   | 6 A (CWC)          | 7.13Y     | 118.8        | 0.02            | 6.20          | 5.21         | 4        | 36         | 10   | 96      | 0.01       | 0.0       | 12.554            | 0.083          | 2                 | 1 | 1          | 9            |
| PL.21044                 | PL.21043    | C   | 6 A (CWC)          | 7.13Y     | 118.8        | 0.02            | 6.22          | 4.85         | 3        | 33         | 9    | 96      | 0.01       | 0.0       | 12.661            | 0.107          | 0                 | 0 | 0          | 8            |
| PL.20900                 | PL.21044    | C   | 6 A (CWC)          | 7.13Y     | 118.8        | 0.02            | 6.24          | 4.85         | 3        | 33         | 9    | 96      | 0.01       | 0.0       | 12.749            | 0.088          | 0                 | 0 | 0          | 8            |
| PL.20885                 | PL.20900    | C   | 6 A (CWC)          | 7.12Y     | 118.7        | 0.02            | 6.26          | 4.85         | 3        | 33         | 9    | 96      | 0.01       | 0.0       | 12.847            | 0.098          | 0                 | 0 | 0          | 8            |
| PL.20821                 | PL.20885    | C   | 6 A (CWC)          | 7.12Y     | 118.7        | 0.02            | 6.28          | 3.76         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 12.954            | 0.107          | 0                 | 0 | 0          | 5            |
| PL.20912                 | PL.20821    | C   | 6 A (CWC)          | 7.12Y     | 118.7        | 0.02            | 6.30          | 3.76         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 13.062            | 0.109          | 0                 | 0 | 0          | 5            |
| PL.20752                 | PL.20912    | C   | 6 A (CWC)          | 7.12Y     | 118.7        | 0.00            | 6.30          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 13.226            | 0.164          | 0                 | 0 | 0          | 1            |
| PL.20886                 | PL.20752    | C   | 6 A (CWC)          | 7.12Y     | 118.7        | 0.00            | 6.30          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 13.397            | 0.170          | 3                 | 1 | 1          | 1            |
| PL.65833                 | PL.20752    | C   | #1/0 ACSR          | 7.12Y     | 118.7        | 0.00            | 6.30          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 13.268            | 0.041          | 0                 | 0 | 0          | 0            |
| PL.20913                 | PL.20912    | C   | 6 A (CWC)          | 7.12Y     | 118.7        | 0.02            | 6.32          | 3.35         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 13.173            | 0.111          | 0                 | 0 | 0          | 4            |
| PL.20916                 | PL.20913    | C   | 6 A (CWC)          | 7.12Y     | 118.7        | 0.02            | 6.34          | 3.35         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 13.358            | 0.185          | 7                 | 2 | 1          | 4            |
| PL.20753                 | PL.20916    | C   | #4 ACSR            | 7.12Y     | 118.7        | 0.00            | 6.34          | 0.92         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 13.394            | 0.036          | 6                 | 2 | 2          | 2            |
| PL.20917                 | PL.20916    | C   | 6 A (CWC)          | 7.12Y     | 118.7        | 0.01            | 6.35          | 1.38         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 13.546            | 0.188          | 9                 | 3 | 1          | 1            |
| PL.20751                 | PL.20885    | C   | #2 ACSR            | 7.12Y     | 118.7        | 0.00            | 6.26          | 1.09         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 12.872            | 0.025          | 0                 | 0 | 0          | 3            |
| PL.20750                 | PL.20751    | C   | #2 ACSR            | 7.12Y     | 118.7        | 0.00            | 6.26          | 0.54         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 12.919            | 0.047          | 4                 | 1 | 1          | 1            |
| PL.20822                 | PL.20751    | C   | #2 ACSR            | 7.12Y     | 118.7        | 0.00            | 6.26          | 0.55         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 12.884            | 0.012          | 4                 | 1 | 2          | 2            |
| PL.20747                 | PL.20826    | C   | 6 A (CWC)          | 7.13Y     | 118.9        | 0.00            | 6.09          | 2.36         | 2        | 16         | 5    | 95      | 0.00       | 0.0       | 12.272            | 0.065          | 16                | 5 | 2          | 2            |
| PL.21053                 | PL.20901    | C   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.77          | 1.60         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 10.566            | 0.031          | 5                 | 1 | 2          | 3            |
| PL.21054                 | PL.21053    | C   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.77          | 0.90         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 10.601            | 0.036          | 6                 | 2 | 1          | 1            |
| PL.20740                 | PL.21248    | C   | #2 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.72          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.542            | 0.041          | 0                 | 0 | 2          | 2            |
| PL.20814                 | PL.20737    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.61          | 2.72         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 10.445            | 0.024          | 19                | 5 | 5          | 5            |
| PL.20904                 | PL.20906    | ABC | #1/0 ACSR          | 7.22Y     | 120.4        | 0.01            | 4.60          | 10.74        | 5        | 224        | 63   | 96      | 0.02       | 0.0       | 10.462            | 0.052          | 0                 | 0 | 0          | 53           |
| PL.20887                 | PL.20904    | ABC | #1/0 ACSR          | 7.22Y     | 120.4        | 0.03            | 4.63          | 10.74        | 5        | 224        | 63   | 96      | 0.05       | 0.0       | 10.622            | 0.160          | 0                 | 0 | 0          | 53           |
| PL.20823                 | PL.20887    | ABC | #1/0 ACSR          | 7.22Y     | 120.4        | 0.01            | 4.64          | 10.26        | 4        | 214        | 60   | 96      | 0.02       | 0.0       | 10.695            | 0.073          | 0                 | 0 | 0          | 51           |
| PL.20754                 | PL.20823    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.02            | 4.66          | 10.26        | 4        | 214        | 60   | 96      | 0.03       | 0.0       | 10.797            | 0.102          | 0                 | 0 | 0          | 51           |
| PL.20612                 | PL.20754    | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.00            | 4.66          | 5.45         | 4        | 38         | 11   | 96      | 0.00       | 0.0       | 10.802            | 0.005          | 0                 | 0 | 0          | 9            |
| PD.2989                  | PL.20612    | A   | 40T                | 7.22Y     | 120.3        | 0.00            | 4.66          | 5.45         | 0        | 38         | 11   | 96      | 0.00       | 0.0       | 10.802            | 0.005          | 0                 | 0 | 0          | 9            |
| PL.20613                 | PD.2989     | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.02            | 4.68          | 5.45         | 4        | 38         | 11   | 96      | 0.01       | 0.0       | 10.877            | 0.075          | 3                 | 1 | 1          | 9            |
| PL.21000                 | PL.20613    | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.01            | 4.70          | 4.01         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 10.979            | 0.103          | 14                | 4 | 3          | 6            |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.21001                 | PL.21000    | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.00            | 4.70          | 2.03         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 11.005            | 0.026          | 6                 | 2 | 2          | 3            |
| PL.20998                 | PL.21001    | A   | #2 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.70          | 1.20         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 11.022            | 0.017          | 0                 | 0 | 0          | 1            |
| PL.20999                 | PL.20998    | A   | #2 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.70          | 1.20         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 11.060            | 0.038          | 8                 | 2 | 1          | 1            |
| PL.21002                 | PL.20613    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.94         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 10.982            | 0.105          | 2                 | 1 | 1          | 2            |
| PL.21003                 | PL.21002    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.64         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 11.023            | 0.041          | 4                 | 1 | 1          | 1            |
| PL.21004                 | PL.21003    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.066            | 0.043          | 0                 | 0 | 0          | 0            |
| PL.20755                 | PL.21004    | A   | #2 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.081            | 0.015          | 0                 | 0 | 0          | 0            |
| PL.21005                 | PL.20755    | A   | #2 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.106            | 0.025          | 0                 | 0 | 0          | 0            |
| PL.21006                 | PL.21005    | A   | #2 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.151            | 0.045          | 0                 | 0 | 0          | 0            |
| PL.20824                 | PL.20754    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.01            | 4.67          | 8.45         | 4        | 176        | 49   | 96      | 0.01       | 0.0       | 10.830            | 0.033          | 1                 | 0 | 1          | 42           |
| PL.20761                 | PL.20824    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.01            | 4.67          | 8.41         | 4        | 175        | 49   | 96      | 0.01       | 0.0       | 10.866            | 0.036          | 0                 | 0 | 0          | 41           |
| PL.20903                 | PL.20761    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.01            | 4.69          | 8.41         | 4        | 175        | 49   | 96      | 0.01       | 0.0       | 10.941            | 0.075          | 1                 | 0 | 1          | 41           |
| PL.20614                 | PL.20903    | C   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.66         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 10.945            | 0.005          | 0                 | 0 | 0          | 1            |
| PD.2990                  | PL.20614    | C   | 40T                | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.66         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 10.945            | 0.005          | 0                 | 0 | 0          | 1            |
| PL.20615                 | PD.2990     | C   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.66         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 10.980            | 0.034          | 5                 | 1 | 1          | 1            |
| PL.21231                 | PL.20903    | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.945            | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3039                  | PL.21231    | A   | 40T                | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.945            | 0.005          | 0                 | 0 | 0          | 1            |
| PL.21232                 | PD.3039     | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.00            | 4.69          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 11.027            | 0.081          | 2                 | 1 | 1          | 1            |
| PL.20996                 | PL.20903    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.01            | 4.69          | 8.05         | 4        | 168        | 47   | 96      | 0.01       | 0.0       | 11.000            | 0.059          | 8                 | 2 | 1          | 38           |
| PL.20997                 | PL.20996    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.01            | 4.70          | 7.69         | 3        | 160        | 45   | 96      | 0.01       | 0.0       | 11.047            | 0.047          | 0                 | 0 | 0          | 37           |
| PL.20905                 | PL.20997    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.01            | 4.71          | 7.05         | 3        | 147        | 41   | 96      | 0.01       | 0.0       | 11.129            | 0.081          | 0                 | 0 | 0          | 33           |
| PL.20756                 | PL.20905    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.01            | 4.72          | 7.05         | 3        | 147        | 41   | 96      | 0.01       | 0.0       | 11.205            | 0.076          | 0                 | 0 | 0          | 33           |
| PL.21255                 | PL.20756    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.05            | 4.77          | 15.85        | 12       | 110        | 31   | 96      | 0.04       | 0.0       | 11.278            | 0.074          | 0                 | 0 | 0          | 25           |
| PD.3054                  | PL.21255    | A   | 35L                | 7.21Y     | 120.2        | 0.00            | 4.77          | 15.85        | 45       | 110        | 31   | 96      | 0.00       | 0.0       | 11.278            | 0.074          | 0                 | 0 | 0          | 25           |
| PL.21256                 | PD.3054     | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.01            | 4.79          | 15.85        | 12       | 110        | 31   | 96      | 0.01       | 0.0       | 11.298            | 0.020          | 8                 | 2 | 1          | 25           |
| PL.20907                 | PL.21256    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.03            | 4.81          | 13.69        | 11       | 95         | 26   | 96      | 0.02       | 0.0       | 11.343            | 0.045          | 0                 | 0 | 1          | 23           |
| PL.20991                 | PL.20907    | A   | #4 ACSR            | 7.21Y     | 120.1        | 0.04            | 4.86          | 12.54        | 10       | 87         | 24   | 96      | 0.03       | 0.0       | 11.422            | 0.079          | 4                 | 1 | 1          | 20           |
| PL.20992                 | PL.20991    | A   | #4 ACSR            | 7.21Y     | 120.1        | 0.03            | 4.88          | 12.00        | 9        | 83         | 23   | 96      | 0.02       | 0.0       | 11.474            | 0.052          | 9                 | 2 | 1          | 19           |
| PL.20989                 | PL.20992    | A   | #4 ACSR            | 7.21Y     | 120.1        | 0.00            | 4.89          | 0.98         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 11.528            | 0.054          | 1                 | 0 | 1          | 2            |
| PL.20990                 | PL.20989    | A   | #4 ACSR            | 7.21Y     | 120.1        | 0.00            | 4.89          | 0.80         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 11.568            | 0.040          | 6                 | 2 | 1          | 1            |
| PL.20987                 | PL.20992    | A   | #4 ACSR            | 7.21Y     | 120.1        | 0.03            | 4.91          | 9.77         | 8        | 68         | 19   | 96      | 0.01       | 0.0       | 11.538            | 0.064          | 2                 | 0 | 1          | 16           |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.20988                 | PL.20987    | A   | #4 ACSR            | 7.20Y     | 120.0        | 0.04            | 4.95          | 9.54         | 7        | 66         | 18   | 96      | 0.02       | 0.0       | 11.636            | 0.098          | 1                 | 0 | 1          | 15           |
| PL.20986                 | PL.20988    | A   | #4 ACSR            | 7.20Y     | 120.0        | 0.05            | 5.01          | 9.34         | 7        | 65         | 18   | 96      | 0.03       | 0.0       | 11.769            | 0.132          | 2                 | 1 | 1          | 14           |
| PL.20983                 | PL.20986    | A   | #4 ACSR            | 7.20Y     | 119.9        | 0.05            | 5.06          | 9.06         | 7        | 63         | 17   | 97      | 0.02       | 0.0       | 11.896            | 0.128          | 5                 | 1 | 2          | 13           |
| PL.20982                 | PL.20983    | A   | #4 ACSR            | 7.20Y     | 119.9        | 0.02            | 5.08          | 8.40         | 6        | 58         | 16   | 96      | 0.01       | 0.0       | 11.955            | 0.059          | 3                 | 1 | 1          | 11           |
| PL.20910                 | PL.20982    | A   | #4 ACSR            | 7.19Y     | 119.9        | 0.01            | 5.09          | 6.33         | 5        | 44         | 12   | 96      | 0.00       | 0.0       | 11.990            | 0.035          | 1                 | 0 | 1          | 9            |
| PL.20976                 | PL.20910    | A   | #1/0 ACSR          | 7.19Y     | 119.9        | 0.01            | 5.10          | 3.49         | 2        | 24         | 6    | 97      | 0.00       | 0.0       | 12.157            | 0.166          | 11                | 3 | 1          | 4            |
| PL.20977                 | PL.20976    | A   | #1/0 ACSR          | 7.19Y     | 119.9        | 0.00            | 5.10          | 1.86         | 1        | 13         | 3    | 97      | 0.00       | 0.0       | 12.218            | 0.061          | 1                 | 0 | 1          | 3            |
| PL.20975                 | PL.20977    | A   | #1/0 ACSR          | 7.19Y     | 119.9        | 0.00            | 5.10          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 12.305            | 0.087          | 0                 | 0 | 0          | 2            |
| PL.20888                 | PL.20975    | A   | #1/0 ACSR          | 7.19Y     | 119.9        | 0.00            | 5.11          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 12.411            | 0.106          | 0                 | 0 | 0          | 2            |
| PL.20889                 | PL.20888    | A   | #1/0 ACSR          | 7.19Y     | 119.9        | 0.01            | 5.11          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 12.548            | 0.137          | 0                 | 0 | 0          | 2            |
| PL.20606                 | PL.20889    | A   | 1/0 AL URD         | 7.19Y     | 119.9        | 0.00            | 5.11          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 12.552            | 0.005          | 0                 | 0 | 0          | 2            |
| PD.2986                  | PL.20606    | A   | 15T                | 7.19Y     | 119.9        | 0.00            | 5.11          | 1.72         | 0        | 12         | 3    | 97      | 0.00       | 0.0       | 12.552            | 0.005          | 0                 | 0 | 0          | 2            |
| PL.20607                 | PD.2986     | A   | 1/0 AL URD         | 7.19Y     | 119.9        | 0.00            | 5.12          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 12.629            | 0.077          | 6                 | 2 | 1          | 2            |
| PL.21148                 | PL.20607    | A   | 1/0 AL URD         | 7.19Y     | 119.9        | 0.00            | 5.12          | 0.80         | 0        | 6          | 1    | 99      | 0.00       | 0.0       | 12.703            | 0.074          | 6                 | 2 | 1          | 1            |
| PL.20978                 | PL.20910    | A   | #4 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.09          | 2.63         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 12.031            | 0.041          | 0                 | 0 | 0          | 4            |
| PL.20979                 | PL.20978    | A   | #4 ACSR            | 7.19Y     | 119.9        | 0.01            | 5.10          | 2.63         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 12.094            | 0.063          | 0                 | 0 | 0          | 4            |
| PL.20760                 | PL.20979    | A   | #1/0 ACSR          | 7.19Y     | 119.9        | 0.00            | 5.10          | 1.10         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 12.130            | 0.036          | 8                 | 2 | 1          | 1            |
| PL.20980                 | PL.20979    | A   | #4 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.10          | 1.53         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 12.150            | 0.055          | 8                 | 2 | 1          | 3            |
| PL.20981                 | PL.20980    | A   | #4 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.10          | 0.33         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 12.293            | 0.143          | 2                 | 1 | 1          | 2            |
| PL.20974                 | PL.20981    | A   | #4 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.10          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 12.371            | 0.078          | 0                 | 0 | 0          | 1            |
| PL.20890                 | PL.20974    | A   | #4 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.10          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 12.480            | 0.110          | 0                 | 0 | 0          | 1            |
| PL.20891                 | PL.20890    | A   | #4 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.10          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 12.579            | 0.098          | 0                 | 0 | 0          | 1            |
| PL.20892                 | PL.20891    | A   | #4 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.10          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 12.691            | 0.112          | 0                 | 0 | 0          | 1            |
| PL.20893                 | PL.20892    | A   | #4 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.10          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 12.744            | 0.053          | 0                 | 0 | 1          | 1            |
| PL.20759                 | PL.20982    | A   | #1/0 ACSR          | 7.20Y     | 119.9        | 0.00            | 5.08          | 1.70         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 12.065            | 0.110          | 12                | 3 | 1          | 1            |
| PL.20758                 | PL.20907    | A   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.81          | 1.15         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 11.402            | 0.059          | 8                 | 2 | 2          | 2            |
| PL.20757                 | PL.21256    | A   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.79          | 1.00         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 11.390            | 0.092          | 7                 | 2 | 1          | 1            |
| PL.20993                 | PL.20756    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.00            | 4.72          | 1.76         | 1        | 37         | 10   | 97      | 0.00       | 0.0       | 11.282            | 0.078          | 4                 | 1 | 1          | 8            |
| PL.20994                 | PL.20993    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.00            | 4.72          | 1.57         | 1        | 33         | 9    | 96      | 0.00       | 0.0       | 11.379            | 0.096          | 22                | 6 | 4          | 7            |
| PL.20985                 | PL.20994    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.00            | 4.73          | 0.54         | 0        | 11         | 3    | 96      | 0.00       | 0.0       | 11.440            | 0.061          | 3                 | 1 | 1          | 3            |
| PL.20984                 | PL.20985    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.00            | 4.73          | 0.38         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 11.480            | 0.040          | 8                 | 2 | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.21237                 | PL.20984    | ABC | #1/0 ACSR          | 7.22Y     | 120.3        | 0.00            | 4.73          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.501            | 0.021          | 0                 | 0 | 0          | 0            |
| PD.3044-A                | PL.21237    | ABC | Open               | 7.22Y     | 120.3        | 0.00            | 4.73          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.501            | 0.021          | 0                 | 0 | 0          | 0            |
| PL.20608                 | PL.20997    | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.00            | 4.70          | 1.93         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 11.052            | 0.005          | 0                 | 0 | 0          | 4            |
| PD.2987                  | PL.20608    | A   | 40T                | 7.22Y     | 120.3        | 0.00            | 4.70          | 1.93         | 0        | 13         | 4    | 96      | 0.00       | 0.0       | 11.052            | 0.005          | 0                 | 0 | 0          | 4            |
| PL.20609                 | PD.2987     | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.00            | 4.70          | 1.93         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 11.118            | 0.066          | 12                | 3 | 3          | 4            |
| PL.20995                 | PL.20609    | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.00            | 4.70          | 0.24         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 11.192            | 0.074          | 2                 | 0 | 1          | 1            |
| PL.20610                 | PL.20887    | C   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.00            | 4.63          | 1.43         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 10.626            | 0.005          | 0                 | 0 | 0          | 2            |
| PD.2988                  | PL.20610    | C   | 40T                | 7.22Y     | 120.4        | 0.00            | 4.63          | 1.43         | 0        | 10         | 3    | 96      | 0.00       | 0.0       | 10.626            | 0.005          | 0                 | 0 | 0          | 2            |
| PL.20611                 | PD.2988     | C   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.00            | 4.64          | 1.43         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 10.739            | 0.113          | 8                 | 2 | 1          | 2            |
| PL.20739                 | PL.20611    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.64          | 0.24         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 10.805            | 0.066          | 2                 | 0 | 1          | 1            |
| PL.21229                 | PL.21052    | C   | #4 ACSR            | 7.23Y     | 120.6        | 0.00            | 4.43          | 1.38         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 10.036            | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3038                  | PL.21229    | C   | 40T                | 7.23Y     | 120.6        | 0.00            | 4.43          | 1.38         | 0        | 10         | 3    | 96      | 0.00       | 0.0       | 10.036            | 0.005          | 0                 | 0 | 0          | 2            |
| PL.21230                 | PD.3038     | C   | #4 ACSR            | 7.23Y     | 120.6        | 0.00            | 4.43          | 1.38         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 10.107            | 0.071          | 10                | 3 | 2          | 2            |
| PL.21175                 | PL.21052    | A   | #4 ACSR            | 7.23Y     | 120.6        | 0.00            | 4.43          | 2.54         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 10.036            | 0.005          | 0                 | 0 | 0          | 5            |
| PD.3010                  | PL.21175    | A   | 40T                | 7.23Y     | 120.6        | 0.00            | 4.43          | 2.54         | 0        | 18         | 5    | 96      | 0.00       | 0.0       | 10.036            | 0.005          | 0                 | 0 | 0          | 5            |
| PL.21176                 | PD.3010     | A   | #4 ACSR            | 7.23Y     | 120.6        | 0.02            | 4.44          | 2.54         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 10.187            | 0.151          | 0                 | 0 | 0          | 5            |
| PL.21045                 | PL.21176    | A   | 6 A (CWC)          | 7.23Y     | 120.6        | 0.00            | 4.45          | 2.54         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 10.240            | 0.053          | 10                | 3 | 2          | 5            |
| PL.21046                 | PL.21045    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.01            | 4.45          | 1.10         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 10.405            | 0.165          | 4                 | 1 | 2          | 3            |
| PL.20973                 | PL.21046    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.45          | 0.49         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.456            | 0.051          | 3                 | 1 | 1          | 1            |
| PL.21157                 | PL.20732    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.21          | 0.53         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.580             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.2999                  | PL.21157    | C   | 40T                | 7.25Y     | 120.8        | 0.00            | 4.21          | 0.53         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.580             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.21158                 | PD.2999     | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.21          | 0.53         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.618             | 0.039          | 4                 | 1 | 1          | 1            |
| PL.20630                 | PL.20808    | B   | #1/0 ACSR          | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.22         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 9.521             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.2998                  | PL.20630    | B   | 40T                | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.22         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 9.521             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.21156                 | PD.2998     | B   | #1/0 ACSR          | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.22         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 9.553             | 0.032          | 2                 | 0 | 2          | 2            |
| PL.20628                 | PL.20729    | A   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.16          | 2.36         | 2        | 16         | 5    | 95      | 0.00       | 0.0       | 9.485             | 0.005          | 0                 | 0 | 0          | 5            |
| PD.2997                  | PL.20628    | A   | 40T                | 7.25Y     | 120.8        | 0.00            | 4.16          | 2.36         | 0        | 16         | 5    | 95      | 0.00       | 0.0       | 9.485             | 0.005          | 0                 | 0 | 0          | 5            |
| PL.20629                 | PD.2997     | A   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.18          | 2.36         | 2        | 16         | 5    | 95      | 0.00       | 0.0       | 9.639             | 0.154          | 8                 | 2 | 1          | 5            |
| PL.21025                 | PL.20629    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.18          | 1.20         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.760             | 0.121          | 1                 | 0 | 1          | 4            |
| PL.21026                 | PL.21025    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.19          | 1.05         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 9.922             | 0.162          | 2                 | 0 | 1          | 3            |
| PL.21024                 | PL.21026    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.19          | 0.82         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 10.039            | 0.117          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.20877                 | PL.21024    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.20          | 0.82         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 10.140            | 0.102          | 6                 | 2 | 1          | 2            |
| PL.20733                 | PL.20877    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.20          | 0.03         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.323            | 0.183          | 0                 | 0 | 1          | 1            |
| PL.21165                 | PL.20915    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.11          | 1.95         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 9.385             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3005                  | PL.21165    | C   | 40T                | 7.25Y     | 120.9        | 0.00            | 4.11          | 1.95         | 0        | 14         | 4    | 96      | 0.00       | 0.0       | 9.385             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.21166                 | PD.3005     | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.12          | 1.95         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 9.426             | 0.042          | 3                 | 1 | 1          | 3            |
| PL.20730                 | PL.21166    | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.12          | 0.47         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 9.503             | 0.076          | 3                 | 1 | 1          | 1            |
| PL.20911                 | PL.21166    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.12          | 0.99         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 9.451             | 0.025          | 0                 | 0 | 0          | 1            |
| PL.20731                 | PL.20911    | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.12          | 0.99         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 9.488             | 0.036          | 7                 | 2 | 1          | 1            |
| PL.21233                 | PL.21028    | C   | #1/0 ACSR          | 7.27Y     | 121.1        | 0.00            | 3.90          | 4.11         | 2        | 29         | 8    | 96      | 0.00       | 0.0       | 8.989             | 0.005          | 0                 | 0 | 0          | 6            |
| PD.3041                  | PL.21233    | C   | 40T                | 7.27Y     | 121.1        | 0.00            | 3.90          | 4.11         | 0        | 29         | 8    | 96      | 0.00       | 0.0       | 8.989             | 0.005          | 0                 | 0 | 0          | 6            |
| PL.21234                 | PD.3041     | C   | #1/0 ACSR          | 7.27Y     | 121.1        | 0.00            | 3.90          | 4.11         | 2        | 29         | 8    | 96      | 0.00       | 0.0       | 9.013             | 0.025          | 3                 | 1 | 1          | 6            |
| PL.21031                 | PL.21234    | C   | #4 ACSR            | 7.27Y     | 121.1        | 0.00            | 3.90          | 3.71         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 9.028             | 0.014          | 11                | 3 | 3          | 5            |
| PL.21032                 | PL.21031    | C   | #4 ACSR            | 7.27Y     | 121.1        | 0.00            | 3.90          | 2.12         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 9.084             | 0.056          | 9                 | 2 | 1          | 2            |
| PL.20726                 | PL.21032    | C   | #4 ACSR            | 7.27Y     | 121.1        | 0.00            | 3.90          | 0.88         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.157             | 0.073          | 6                 | 2 | 1          | 1            |
| PL.20714                 | PL.21023    | C   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.28          | 0.48         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.040             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3037                  | PL.20714    | C   | 40T                | 7.30Y     | 121.7        | 0.00            | 3.28          | 0.48         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.040             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.20802                 | PD.3037     | C   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.28          | 0.48         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.087             | 0.047          | 3                 | 1 | 2          | 2            |
| PL.20715                 | PL.21023    | C   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.00            | 3.28          | 6.84         | 5        | 48         | 14   | 96      | 0.00       | 0.0       | 8.040             | 0.005          | 0                 | 0 | 0          | 11           |
| PD.3042                  | PL.20715    | C   | 40T                | 7.30Y     | 121.7        | 0.00            | 3.28          | 6.84         | 0        | 48         | 14   | 96      | 0.00       | 0.0       | 8.040             | 0.005          | 0                 | 0 | 0          | 11           |
| PL.20803                 | PD.3042     | C   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.03            | 3.31          | 6.84         | 5        | 48         | 14   | 96      | 0.01       | 0.0       | 8.135             | 0.095          | 0                 | 0 | 0          | 11           |
| PL.21033                 | PL.20803    | C   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.03            | 3.34          | 6.84         | 5        | 48         | 14   | 96      | 0.01       | 0.0       | 8.244             | 0.109          | 4                 | 1 | 1          | 11           |
| PL.21034                 | PL.21033    | C   | 6 A (CWC)          | 7.30Y     | 121.6        | 0.05            | 3.39          | 6.32         | 5        | 44         | 13   | 96      | 0.02       | 0.0       | 8.419             | 0.175          | 0                 | 0 | 0          | 10           |
| PL.21035                 | PL.21034    | C   | 6 A (CWC)          | 7.30Y     | 121.6        | 0.01            | 3.40          | 3.36         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 8.473             | 0.054          | 15                | 4 | 4          | 5            |
| PL.21036                 | PL.21035    | C   | 6 A (CWC)          | 7.30Y     | 121.6        | 0.01            | 3.41          | 1.23         | 1        | 9          | 2    | 98      | 0.00       | 0.0       | 8.635             | 0.162          | 0                 | 0 | 0          | 1            |
| PL.20723                 | PL.21036    | C   | #2 ACSR            | 7.30Y     | 121.6        | 0.00            | 3.41          | 1.23         | 1        | 9          | 2    | 98      | 0.00       | 0.0       | 8.660             | 0.025          | 9                 | 2 | 1          | 1            |
| PL.20805                 | PL.21034    | C   | 6 A (CWC)          | 7.30Y     | 121.6        | 0.01            | 3.41          | 2.67         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 8.534             | 0.115          | 0                 | 0 | 0          | 4            |
| PL.20717                 | PL.20805    | C   | #4 ACSR            | 7.30Y     | 121.6        | 0.00            | 3.41          | 1.15         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 8.555             | 0.021          | 7                 | 2 | 1          | 3            |
| PL.21167                 | PL.20717    | C   | #1/0 ACSR          | 7.30Y     | 121.6        | 0.00            | 3.41          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.559             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3006                  | PL.21167    | C   | 25T                | 7.30Y     | 121.6        | 0.00            | 3.41          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.559             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.21168                 | PD.3006     | C   | #1/0 ACSR          | 7.30Y     | 121.6        | 0.00            | 3.41          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.609             | 0.050          | 0                 | 0 | 1          | 1            |
| PL.20716                 | PL.20717    | C   | #1/0 ACSR          | 7.30Y     | 121.6        | 0.00            | 3.41          | 0.20         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.696             | 0.142          | 1                 | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.20718                 | PL.20805    | C   | 6 A (CWC)          | 7.29Y     | 121.6        | 0.01            | 3.42          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.706             | 0.172          | 0                 | 0 | 0          | 1            |
| PL.20721                 | PL.20718    | C   | #1/0 ACSR          | 7.29Y     | 121.6        | 0.00            | 3.42          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.892             | 0.187          | 11                | 3 | 1          | 1            |
| PL.20722                 | PL.21034    | C   | #4 ACSR            | 7.30Y     | 121.6        | 0.00            | 3.39          | 0.30         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.471             | 0.051          | 2                 | 1 | 1          | 1            |
| PL.20713                 | PL.21023    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.28          | 0.14         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.040             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3036                  | PL.20713    | A   | 40T                | 7.30Y     | 121.7        | 0.00            | 3.28          | 0.14         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.040             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.20804                 | PD.3036     | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.28          | 0.14         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.074             | 0.034          | 1                 | 0 | 1          | 1            |
| PL.20622                 | PL.20922    | C   | #4 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.77          | 1.09         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 7.373             | 0.005          | 0                 | 0 | 0          | 5            |
| PD.2994                  | PL.20622    | C   | 40T                | 7.33Y     | 122.2        | 0.00            | 2.77          | 1.09         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 7.373             | 0.005          | 0                 | 0 | 0          | 5            |
| PL.20623                 | PD.2994     | C   | #4 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.77          | 1.09         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 7.433             | 0.060          | 8                 | 2 | 5          | 5            |
| PL.20582                 | PL.20585    | C   | #2 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.854             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.2976                  | PL.20582    | C   | 40T                | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.854             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.20583                 | PD.2976     | C   | #2 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.918             | 0.064          | 0                 | 0 | 1          | 3            |
| PL.20703                 | PL.20583    | C   | #2 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.949             | 0.031          | 3                 | 1 | 2          | 2            |
| PL.20702                 | PL.20864    | C   | #1/0 ACSR          | 7.37Y     | 122.8        | 0.00            | 2.21          | 0.79         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 6.720             | 0.018          | 6                 | 2 | 1          | 1            |
| PL.20701                 | PL.20700    | A   | #1/0 ACSR          | 7.38Y     | 123.0        | 0.00            | 1.98          | 0.26         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.455             | 0.024          | 2                 | 1 | 1          | 1            |
| PL.20698                 | PL.20926    | C   | #2 ACSR            | 7.39Y     | 123.2        | 0.00            | 1.83          | 0.47         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.264             | 0.004          | 0                 | 0 | 0          | 2            |
| PD.3034                  | PL.20698    | C   | 40T                | 7.39Y     | 123.2        | 0.00            | 1.83          | 0.47         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.264             | 0.004          | 0                 | 0 | 0          | 2            |
| PL.20927                 | PD.3034     | C   | #4 ACSR            | 7.39Y     | 123.2        | 0.00            | 1.83          | 0.20         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.268             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.20928                 | PL.20927    | C   | #4 ACSR            | 7.39Y     | 123.2        | 0.00            | 1.83          | 0.20         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.268             | 0.000          | 0                 | 0 | 0          | 1            |
| PL.20699                 | PL.20928    | C   | #4 ACSR            | 7.39Y     | 123.2        | 0.00            | 1.83          | 0.20         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.308             | 0.040          | 1                 | 0 | 1          | 1            |
| PL.20794                 | PD.3034     | C   | #2 ACSR            | 7.39Y     | 123.2        | 0.00            | 1.83          | 0.27         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.279             | 0.015          | 2                 | 1 | 1          | 1            |
| PL.20963                 | PL.20696    | ABC | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.72          | 0.70         | 0        | 15         | 4    | 97      | 0.00       | 0.0       | 6.209             | 0.075          | 3                 | 1 | 1          | 4            |
| PL.20964                 | PL.20963    | ABC | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.72          | 0.54         | 0        | 11         | 3    | 96      | 0.00       | 0.0       | 6.265             | 0.055          | 0                 | 0 | 1          | 3            |
| PL.20962                 | PL.20964    | ABC | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.72          | 0.54         | 0        | 11         | 3    | 96      | 0.00       | 0.0       | 6.381             | 0.116          | 8                 | 2 | 1          | 2            |
| PL.21223                 | PL.20962    | B   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.72          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.386             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3033                  | PL.21223    | B   | 40T                | 7.40Y     | 123.3        | 0.00            | 1.72          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.386             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.21224                 | PD.3033     | B   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.72          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.459             | 0.073          | 0                 | 0 | 0          | 1            |
| PL.20697                 | PL.21224    | B   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.73          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.552             | 0.093          | 3                 | 1 | 1          | 1            |
| PL.20965                 | PL.20961    | C   | #2 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.69          | 1.55         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 6.074             | 0.013          | 11                | 3 | 1          | 1            |
| PL.20600                 | PL.20965    | C   | #2 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.69          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.078             | 0.005          | 0                 | 0 | 0          | 0            |
| PD.2983                  | PL.20600    | C   | 40T                | 7.40Y     | 123.3        | 0.00            | 1.69          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.078             | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.20601                 | PD.2983     | C   | #2 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.69          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.176             | 0.098          | 0                 | 0 | 0          | 0            |
| PL.20532                 | PL.21242    | A C | 6 A (CWC)          | 7.41Y     | 123.4        | 0.02            | 1.56          | 23.06        | 16       | 329        | 94   | 96      | 0.05       | 0.0       | 5.697             | 0.021          | 0                 | 0 | 0          | 136          |
| PL.21261                 | PL.20532    | A C | 6 A (CWC)          | 7.40Y     | 123.4        | 0.02            | 1.59          | 23.06        | 16       | 328        | 94   | 96      | 0.06       | 0.0       | 5.721             | 0.024          | 0                 | 0 | 0          | 136          |
| PD.3057                  | PL.21261    | A C | 50L                | 7.40Y     | 123.4        | 0.00            | 1.59          | 23.06        | 46       | 328        | 94   | 96      | 0.00       | 0.0       | 5.721             | 0.024          | 0                 | 0 | 0          | 136          |
| PL.21262                 | PD.3057     | A C | 6 A (CWC)          | 7.40Y     | 123.3        | 0.07            | 1.66          | 23.06        | 16       | 328        | 94   | 96      | 0.18       | 0.1       | 5.793             | 0.072          | 1                 | 0 | 1          | 136          |
| PL.20968                 | PL.21262    | A C | 6 A (CWC)          | 7.40Y     | 123.3        | 0.08            | 1.74          | 22.98        | 16       | 327        | 93   | 96      | 0.21       | 0.1       | 5.879             | 0.086          | 1                 | 0 | 2          | 135          |
| PL.20959                 | PL.20968    | A C | 6 A (CWC)          | 7.39Y     | 123.2        | 0.07            | 1.81          | 22.91        | 16       | 326        | 93   | 96      | 0.17       | 0.1       | 5.948             | 0.069          | 0                 | 0 | 0          | 133          |
| PL.20594                 | PL.20959    | C   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.00            | 1.81          | 1.06         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 5.952             | 0.004          | 0                 | 0 | 0          | 3            |
| PD.2981                  | PL.20594    | C   | 20T                | 7.39Y     | 123.2        | 0.00            | 1.81          | 1.06         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 5.952             | 0.004          | 0                 | 0 | 0          | 3            |
| PL.20595                 | PD.2981     | C   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.00            | 1.81          | 1.06         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 6.008             | 0.056          | 2                 | 0 | 2          | 3            |
| PL.20960                 | PL.20595    | C   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.00            | 1.81          | 0.85         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 6.050             | 0.042          | 0                 | 0 | 0          | 1            |
| PL.20534                 | PL.20960    | C   | #1/0 ACSR          | 7.39Y     | 123.2        | 0.00            | 1.82          | 0.85         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 6.206             | 0.156          | 6                 | 2 | 1          | 1            |
| PL.20533                 | PL.20959    | A C | 6 A (CWC)          | 7.38Y     | 123.1        | 0.14            | 1.95          | 22.38        | 16       | 318        | 91   | 96      | 0.33       | 0.1       | 6.090             | 0.142          | 0                 | 0 | 0          | 130          |
| PL.20535                 | PL.20533    | A C | 6 A (CWC)          | 7.38Y     | 123.0        | 0.07            | 2.02          | 21.78        | 16       | 309        | 88   | 96      | 0.17       | 0.1       | 6.167             | 0.077          | 2                 | 1 | 1          | 127          |
| PL.20539                 | PL.20535    | A C | 6 A (CWC)          | 7.38Y     | 123.0        | 0.02            | 2.03          | 20.80        | 15       | 295        | 84   | 96      | 0.04       | 0.0       | 6.186             | 0.019          | 0                 | 0 | 0          | 121          |
| PL.20859                 | PL.20539    | A C | 6 A (CWC)          | 7.37Y     | 122.8        | 0.18            | 2.21          | 20.80        | 15       | 295        | 84   | 96      | 0.41       | 0.1       | 6.390             | 0.204          | 0                 | 0 | 0          | 121          |
| PL.20541                 | PL.20859    | A C | 6 A (CWC)          | 7.37Y     | 122.8        | 0.03            | 2.24          | 20.80        | 15       | 295        | 84   | 96      | 0.07       | 0.0       | 6.424             | 0.034          | 2                 | 0 | 1          | 121          |
| PL.20542                 | PL.20541    | A C | 6 A (CWC)          | 7.36Y     | 122.7        | 0.02            | 2.27          | 20.69        | 15       | 293        | 84   | 96      | 0.06       | 0.0       | 6.452             | 0.028          | 0                 | 0 | 0          | 120          |
| PL.20788                 | PL.20542    | A C | 6 A (CWC)          | 7.35Y     | 122.6        | 0.15            | 2.42          | 20.69        | 15       | 293        | 83   | 96      | 0.34       | 0.1       | 6.622             | 0.170          | 0                 | 0 | 0          | 120          |
| PL.20544                 | PL.20788    | A C | 6 A (CWC)          | 7.35Y     | 122.5        | 0.06            | 2.48          | 20.37        | 15       | 288        | 82   | 96      | 0.14       | 0.0       | 6.693             | 0.071          | 0                 | 0 | 0          | 118          |
| PL.20555                 | PL.20544    | A C | 6 A (CWC)          | 7.34Y     | 122.4        | 0.11            | 2.59          | 20.37        | 15       | 288        | 82   | 96      | 0.24       | 0.1       | 6.816             | 0.124          | 0                 | 0 | 0          | 118          |
| PL.20554                 | PL.20555    | A C | 6 A (CWC)          | 7.34Y     | 122.4        | 0.06            | 2.64          | 20.37        | 15       | 288        | 82   | 96      | 0.12       | 0.0       | 6.881             | 0.065          | 0                 | 0 | 0          | 118          |
| PL.20944                 | PL.20554    | A C | 6 A (CWC)          | 7.34Y     | 122.3        | 0.08            | 2.72          | 19.08        | 14       | 269        | 77   | 96      | 0.16       | 0.1       | 6.978             | 0.097          | 0                 | 0 | 2          | 111          |
| PL.21219                 | PL.20944    | A   | #1/0 ACSR          | 7.34Y     | 122.3        | 0.00            | 2.72          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.982             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3031                  | PL.21219    | A   | 20T                | 7.34Y     | 122.3        | 0.00            | 2.72          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.982             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.21220                 | PD.3031     | A   | #1/0 ACSR          | 7.34Y     | 122.3        | 0.00            | 2.72          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.005             | 0.023          | 0                 | 0 | 1          | 1            |
| PL.20945                 | PL.20944    | A C | 6 A (CWC)          | 7.33Y     | 122.2        | 0.06            | 2.78          | 19.08        | 14       | 269        | 77   | 96      | 0.11       | 0.0       | 7.046             | 0.068          | 2                 | 1 | 1          | 108          |
| PL.21155                 | PL.20945    | C   | #2 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.78          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.051             | 0.005          | 0                 | 0 | 0          | 0            |
| PD.2974                  | PL.21155    | C   | 20T                | 7.33Y     | 122.2        | 0.00            | 2.78          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.051             | 0.005          | 0                 | 0 | 0          | 0            |
| PL.20579                 | PD.2974     | C   | #2 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.78          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.199             | 0.148          | 0                 | 0 | 0          | 0            |
| PL.20551                 | PL.20945    | A C | 6 A (CWC)          | 7.33Y     | 122.1        | 0.12            | 2.90          | 18.92        | 14       | 267        | 76   | 96      | 0.25       | 0.1       | 7.197             | 0.151          | 0                 | 0 | 0          | 107          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.20556                 | PL.20551    | A C | 6 A (CWC)          | 7.32Y     | 122.0        | 0.10            | 3.00          | 18.92        | 14       | 267        | 76   | 96      | 0.21       | 0.1       | 7.324             | 0.128          | 2                 | 0 | 1          | 107          |
| PL.20552                 | PL.20556    | C   | 6 A (CWC)          | 7.31Y     | 121.9        | 0.09            | 3.10          | 21.69        | 15       | 153        | 43   | 96      | 0.11       | 0.1       | 7.419             | 0.094          | 4                 | 1 | 1          | 72           |
| PL.20655                 | PL.20552    | C   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.11            | 3.21          | 21.08        | 15       | 148        | 42   | 96      | 0.12       | 0.1       | 7.536             | 0.118          | 4                 | 1 | 1          | 70           |
| PL.20656                 | PL.20655    | C   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.13            | 3.34          | 20.40        | 15       | 143        | 41   | 96      | 0.14       | 0.1       | 7.679             | 0.143          | 5                 | 1 | 2          | 68           |
| PL.20658                 | PL.20656    | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.13            | 3.47          | 19.71        | 14       | 138        | 39   | 96      | 0.14       | 0.1       | 7.828             | 0.148          | 0                 | 0 | 0          | 66           |
| PL.21179                 | PL.20658    | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.00            | 3.48          | 17.15        | 12       | 120        | 34   | 96      | 0.00       | 0.0       | 7.832             | 0.004          | 0                 | 0 | 0          | 56           |
| PL.21180                 | PL.21179    | C   | 6 A (CWC)          | 7.28Y     | 121.4        | 0.11            | 3.59          | 17.15        | 12       | 120        | 34   | 96      | 0.10       | 0.1       | 7.979             | 0.147          | 5                 | 1 | 2          | 56           |
| PL.20663                 | PL.21180    | C   | 6 A (CWC)          | 7.28Y     | 121.4        | 0.04            | 3.63          | 15.73        | 11       | 110        | 31   | 96      | 0.03       | 0.0       | 8.035             | 0.056          | 0                 | 0 | 0          | 52           |
| PL.21078                 | PL.20663    | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.05            | 3.68          | 15.25        | 11       | 107        | 30   | 96      | 0.04       | 0.0       | 8.105             | 0.070          | 13                | 4 | 3          | 50           |
| PL.21079                 | PL.21078    | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.05            | 3.73          | 13.36        | 10       | 94         | 26   | 96      | 0.04       | 0.0       | 8.196             | 0.091          | 12                | 3 | 2          | 47           |
| PL.21080                 | PL.21079    | C   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.05            | 3.77          | 11.70        | 8        | 82         | 23   | 96      | 0.03       | 0.0       | 8.284             | 0.089          | 2                 | 1 | 1          | 45           |
| PL.21081                 | PL.21080    | C   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.04            | 3.81          | 11.35        | 8        | 79         | 22   | 96      | 0.02       | 0.0       | 8.354             | 0.070          | 0                 | 0 | 1          | 44           |
| PL.20665                 | PL.21081    | C   | #2 ACSR            | 7.27Y     | 121.2        | 0.00            | 3.81          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.399             | 0.044          | 3                 | 1 | 1          | 1            |
| PL.20943                 | PL.21081    | C   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.07            | 3.88          | 10.91        | 8        | 76         | 22   | 96      | 0.04       | 0.1       | 8.489             | 0.135          | 0                 | 0 | 0          | 42           |
| PL.20942                 | PL.20943    | C   | 6 A (CWC)          | 7.26Y     | 121.1        | 0.06            | 3.94          | 10.91        | 8        | 76         | 22   | 96      | 0.03       | 0.0       | 8.610             | 0.121          | 2                 | 1 | 1          | 42           |
| PL.21083                 | PL.20942    | C   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.05            | 3.99          | 10.07        | 7        | 70         | 20   | 96      | 0.03       | 0.0       | 8.721             | 0.110          | 2                 | 0 | 1          | 37           |
| PL.21084                 | PL.21083    | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.07            | 4.06          | 9.83         | 7        | 69         | 19   | 96      | 0.04       | 0.1       | 8.882             | 0.162          | 0                 | 0 | 2          | 36           |
| PL.20941                 | PL.21084    | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.01            | 4.07          | 4.87         | 3        | 34         | 10   | 96      | 0.00       | 0.0       | 8.915             | 0.033          | 0                 | 0 | 0          | 18           |
| PL.21249                 | PL.20941    | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.00            | 4.07          | 4.87         | 3        | 34         | 10   | 96      | 0.00       | 0.0       | 8.917             | 0.003          | 0                 | 0 | 0          | 18           |
| PD.3051                  | PL.21249    | C   | 25H                | 7.26Y     | 120.9        | 0.00            | 4.07          | 4.87         | 19       | 34         | 10   | 96      | 0.00       | 0.0       | 8.917             | 0.003          | 0                 | 0 | 0          | 18           |
| PL.21250                 | PD.3051     | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.01            | 4.07          | 4.87         | 3        | 34         | 10   | 96      | 0.00       | 0.0       | 8.943             | 0.026          | 4                 | 1 | 1          | 18           |
| PL.20939                 | PL.21250    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.02            | 4.10          | 4.27         | 3        | 30         | 8    | 97      | 0.01       | 0.0       | 9.074             | 0.131          | 4                 | 1 | 2          | 17           |
| PL.20693                 | PL.20939    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.10          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.149             | 0.075          | 0                 | 0 | 0          | 0            |
| PL.20562                 | PL.20693    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.10          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.287             | 0.138          | 0                 | 0 | 0          | 0            |
| PL.20563                 | PL.20562    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.10          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.450             | 0.163          | 0                 | 0 | 0          | 0            |
| PL.20564                 | PL.20563    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.10          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.552             | 0.103          | 0                 | 0 | 0          | 0            |
| PL.21092                 | PL.20564    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.10          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.608             | 0.055          | 0                 | 0 | 0          | 0            |
| PL.21093                 | PL.21092    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.10          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.650             | 0.042          | 0                 | 0 | 0          | 0            |
| PL.20940                 | PL.20939    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.02            | 4.12          | 3.73         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 9.189             | 0.115          | 0                 | 0 | 0          | 15           |
| PL.20895                 | PL.20940    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.01            | 4.13          | 3.73         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 9.276             | 0.087          | 0                 | 0 | 0          | 15           |
| PL.20565                 | PL.20895    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.03            | 4.16          | 3.73         | 3        | 26         | 7    | 97      | 0.01       | 0.0       | 9.461             | 0.185          | 0                 | 0 | 0          | 15           |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.21090                 | PL.20565    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.18          | 3.73         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 9.544             | 0.083          | 0                 | 0 | 1          | 15           |
| PL.21091                 | PL.21090    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.02            | 4.20          | 3.70         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 9.659             | 0.115          | 0                 | 0 | 0          | 14           |
| PL.20793                 | PL.21091    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.02            | 4.22          | 2.79         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 9.815             | 0.156          | 0                 | 0 | 0          | 9            |
| PL.21104                 | PL.20793    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.02            | 4.24          | 2.22         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 9.993             | 0.178          | 0                 | 0 | 0          | 8            |
| PL.21105                 | PL.21104    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.24          | 2.22         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 10.044            | 0.051          | 0                 | 0 | 0          | 8            |
| PL.21259                 | PL.21105    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.046            | 0.003          | 0                 | 0 | 0          | 2            |
| PD.3056                  | PL.21259    | C   | 20T                | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.71         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 10.046            | 0.003          | 0                 | 0 | 0          | 2            |
| PL.21260                 | PD.3056     | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.149            | 0.102          | 0                 | 0 | 0          | 2            |
| PL.21107                 | PL.21260    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.25          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.243            | 0.095          | 0                 | 0 | 1          | 2            |
| PL.21108                 | PL.21107    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.352            | 0.108          | 0                 | 0 | 0          | 1            |
| PL.20573                 | PL.21108    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.26          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.496            | 0.144          | 0                 | 0 | 0          | 1            |
| PL.20684                 | PL.20573    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.01            | 4.26          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.682            | 0.186          | 0                 | 0 | 0          | 1            |
| PL.20685                 | PL.20684    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.26          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.748            | 0.066          | 0                 | 0 | 0          | 1            |
| PL.20574                 | PL.20685    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.27          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.874            | 0.126          | 0                 | 0 | 0          | 1            |
| PL.21102                 | PL.20574    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.27          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.940            | 0.067          | 0                 | 0 | 0          | 1            |
| PL.21103                 | PL.21102    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.01            | 4.28          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 11.099            | 0.159          | 0                 | 0 | 0          | 1            |
| PL.21100                 | PL.21103    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.28          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 11.178            | 0.079          | 0                 | 0 | 0          | 1            |
| PL.21101                 | PL.21100    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.28          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 11.234            | 0.056          | 0                 | 0 | 0          | 1            |
| PL.21098                 | PL.21101    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.28          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 11.327            | 0.093          | 5                 | 1 | 1          | 1            |
| PL.20686                 | PL.21101    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.28          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.286            | 0.052          | 0                 | 0 | 0          | 0            |
| PL.21257                 | PL.21105    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.24          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 10.046            | 0.003          | 0                 | 0 | 0          | 6            |
| PD.3055                  | PL.21257    | C   | 20T                | 7.25Y     | 120.8        | 0.00            | 4.24          | 1.51         | 0        | 11         | 3    | 96      | 0.00       | 0.0       | 10.046            | 0.003          | 0                 | 0 | 0          | 6            |
| PL.21258                 | PD.3055     | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.25          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 10.160            | 0.114          | 8                 | 2 | 1          | 6            |
| PL.21106                 | PL.21258    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.25          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.297            | 0.137          | 0                 | 0 | 0          | 5            |
| PL.20937                 | PL.21106    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.381            | 0.084          | 0                 | 0 | 0          | 5            |
| PL.20938                 | PL.20937    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.428            | 0.047          | 0                 | 0 | 0          | 5            |
| PL.20576                 | PL.20938    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.592            | 0.164          | 0                 | 0 | 0          | 5            |
| PL.21195                 | PL.20576    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.26          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.755            | 0.163          | 0                 | 0 | 0          | 3            |
| PD.3019                  | PL.21195    | C   | 8T                 | 7.24Y     | 120.7        | 0.00            | 4.26          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.755            | 0.163          | 0                 | 0 | 0          | 3            |
| PL.21196                 | PD.3019     | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.26          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.873            | 0.118          | 0                 | 0 | 0          | 3            |
| PL.20577                 | PL.21196    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.26          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.986            | 0.112          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.20578                 | PL.20577    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.26          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 11.107            | 0.122          | 2                 | 1 | 3          | 3            |
| PL.20680                 | PL.20576    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.11         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 10.620            | 0.028          | 1                 | 0 | 2          | 2            |
| PL.20682                 | PL.20937    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.464            | 0.083          | 0                 | 0 | 0          | 0            |
| PL.21109                 | PL.20682    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.581            | 0.117          | 0                 | 0 | 0          | 0            |
| PL.21110                 | PL.21109    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.714            | 0.133          | 0                 | 0 | 0          | 0            |
| PL.21111                 | PL.21110    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.826            | 0.111          | 0                 | 0 | 0          | 0            |
| PL.20862                 | PL.21111    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.937            | 0.111          | 0                 | 0 | 0          | 0            |
| PL.20683                 | PL.20862    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.121            | 0.184          | 0                 | 0 | 0          | 0            |
| PL.20681                 | PL.21106    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.25          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.422            | 0.125          | 0                 | 0 | 0          | 0            |
| PL.20688                 | PL.20793    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.22          | 0.57         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.844             | 0.030          | 4                 | 1 | 1          | 1            |
| PL.21193                 | PL.21091    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.20          | 0.91         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.663             | 0.005          | 0                 | 0 | 0          | 5            |
| PD.3018                  | PL.21193    | C   | 10T                | 7.25Y     | 120.8        | 0.00            | 4.20          | 0.91         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 9.663             | 0.005          | 0                 | 0 | 0          | 5            |
| PL.21194                 | PD.3018     | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.20          | 0.91         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.769             | 0.106          | 0                 | 0 | 0          | 5            |
| PL.20896                 | PL.21194    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.21          | 0.91         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.865             | 0.096          | 0                 | 0 | 0          | 5            |
| PL.20566                 | PL.20896    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.21          | 0.91         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 10.012            | 0.147          | 0                 | 0 | 0          | 5            |
| PL.20567                 | PL.20566    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.22          | 0.91         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 10.124            | 0.112          | 0                 | 0 | 0          | 5            |
| PL.20568                 | PL.20567    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.22          | 0.91         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 10.234            | 0.110          | 0                 | 0 | 0          | 5            |
| PL.21075                 | PL.20568    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.23          | 0.56         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 10.341            | 0.107          | 0                 | 0 | 1          | 4            |
| PL.21076                 | PL.21075    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.23          | 0.56         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 10.529            | 0.188          | 0                 | 0 | 0          | 3            |
| PL.20569                 | PL.21076    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.23          | 0.56         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 10.621            | 0.093          | 0                 | 0 | 0          | 3            |
| PL.20950                 | PL.20569    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.56         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 10.732            | 0.110          | 0                 | 0 | 1          | 3            |
| PL.20951                 | PL.20950    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.36         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.878            | 0.146          | 0                 | 0 | 0          | 1            |
| PL.20570                 | PL.20951    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.36         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.972            | 0.094          | 0                 | 0 | 0          | 1            |
| PL.20689                 | PL.20570    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.36         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 11.079            | 0.106          | 0                 | 0 | 0          | 1            |
| PL.20572                 | PL.20689    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.36         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 11.174            | 0.095          | 0                 | 0 | 0          | 1            |
| PL.20571                 | PL.20572    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.36         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 11.253            | 0.079          | 3                 | 1 | 1          | 1            |
| PL.20690                 | PL.20950    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.19         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 10.777            | 0.046          | 1                 | 0 | 1          | 1            |
| PL.20691                 | PL.20568    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.22          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.348            | 0.115          | 0                 | 0 | 0          | 1            |
| PL.20692                 | PL.20691    | C   | #2 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.22          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.371            | 0.022          | 2                 | 1 | 1          | 1            |
| PL.20667                 | PL.21084    | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.00            | 4.06          | 2.67         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 8.903             | 0.021          | 0                 | 0 | 0          | 12           |
| PD.3050                  | PL.20667    | C   | 25H                | 7.26Y     | 120.9        | 0.00            | 4.06          | 2.67         | 11       | 19         | 5    | 97      | 0.00       | 0.0       | 8.903             | 0.021          | 0                 | 0 | 0          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.21086                 | PD.3050     | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.01            | 4.08          | 2.67         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 9.000             | 0.096          | 0                 | 0 | 0          | 12           |
| PL.21087                 | PL.21086    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.01            | 4.09          | 2.67         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 9.085             | 0.085          | 0                 | 0 | 0          | 12           |
| PL.20560                 | PL.21087    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.02            | 4.10          | 2.67         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 9.238             | 0.153          | 0                 | 0 | 1          | 12           |
| PL.20668                 | PL.20560    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 9.351             | 0.114          | 3                 | 1 | 2          | 2            |
| PL.20669                 | PL.20560    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.01            | 4.11          | 2.26         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 9.311             | 0.073          | 0                 | 0 | 0          | 9            |
| PL.20670                 | PL.20669    | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 9.372             | 0.061          | 3                 | 1 | 1          | 1            |
| PL.21088                 | PL.20669    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.01            | 4.13          | 1.85         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.466             | 0.155          | 0                 | 0 | 0          | 8            |
| PL.21089                 | PL.21088    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.13          | 1.85         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.523             | 0.058          | 2                 | 1 | 1          | 8            |
| PL.20671                 | PL.21089    | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 9.625             | 0.101          | 0                 | 0 | 0          | 1            |
| PL.20561                 | PL.20671    | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 9.749             | 0.124          | 3                 | 1 | 1          | 1            |
| PL.20931                 | PL.21089    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.01            | 4.14          | 1.13         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.646             | 0.122          | 3                 | 1 | 1          | 6            |
| PL.20932                 | PL.20931    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.14          | 0.67         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 9.785             | 0.139          | 0                 | 0 | 0          | 3            |
| PL.20673                 | PL.20932    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.14          | 0.67         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 9.864             | 0.079          | 0                 | 0 | 0          | 3            |
| PL.20792                 | PL.20673    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.14          | 0.67         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 9.918             | 0.053          | 1                 | 0 | 2          | 3            |
| PL.20675                 | PL.20792    | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.15          | 0.51         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 10.055            | 0.137          | 4                 | 1 | 1          | 1            |
| PL.20672                 | PL.20931    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.14          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.673             | 0.027          | 0                 | 0 | 2          | 2            |
| PL.21191                 | PL.21084    | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.00            | 4.06          | 2.25         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 8.887             | 0.005          | 0                 | 0 | 0          | 4            |
| PD.3017                  | PL.21191    | C   | 20T                | 7.26Y     | 120.9        | 0.00            | 4.06          | 2.25         | 0        | 16         | 4    | 97      | 0.00       | 0.0       | 8.887             | 0.005          | 0                 | 0 | 0          | 4            |
| PL.21192                 | PD.3017     | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.00            | 4.06          | 2.25         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 8.914             | 0.027          | 3                 | 1 | 1          | 4            |
| PL.21085                 | PL.21192    | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.01            | 4.07          | 1.89         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 8.973             | 0.059          | 0                 | 0 | 0          | 3            |
| PL.20694                 | PL.21085    | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.00            | 4.07          | 1.89         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.022             | 0.049          | 13                | 4 | 3          | 3            |
| PL.20695                 | PL.20694    | C   | #2 ACSR            | 7.26Y     | 120.9        | 0.00            | 4.07          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.130             | 0.108          | 0                 | 0 | 0          | 0            |
| PL.21189                 | PL.20942    | C   | 6 A (CWC)          | 7.26Y     | 121.1        | 0.00            | 3.94          | 0.57         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 8.615             | 0.005          | 0                 | 0 | 0          | 4            |
| PD.3016                  | PL.21189    | C   | 20T                | 7.26Y     | 121.1        | 0.00            | 3.94          | 0.57         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 8.615             | 0.005          | 0                 | 0 | 0          | 4            |
| PL.21190                 | PD.3016     | C   | 6 A (CWC)          | 7.26Y     | 121.1        | 0.00            | 3.94          | 0.57         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 8.736             | 0.121          | 2                 | 1 | 1          | 4            |
| PL.21082                 | PL.21190    | C   | 6 A (CWC)          | 7.26Y     | 121.1        | 0.00            | 3.94          | 0.26         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.755             | 0.018          | 0                 | 0 | 0          | 3            |
| PL.20666                 | PL.21082    | C   | #4 ACSR            | 7.26Y     | 121.1        | 0.00            | 3.94          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.807             | 0.052          | 0                 | 0 | 0          | 0            |
| PL.20791                 | PL.21082    | C   | 6 A (CWC)          | 7.26Y     | 121.1        | 0.00            | 3.94          | 0.26         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.829             | 0.074          | 1                 | 0 | 1          | 3            |
| PL.32691                 | PL.20791    | C   | #1/0 ACSR          | 7.26Y     | 121.1        | 0.00            | 3.94          | 0.16         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.858             | 0.029          | 1                 | 0 | 1          | 2            |
| PL.32692                 | PL.32691    | C   | #1/0 ACSR          | 7.26Y     | 121.1        | 0.00            | 3.94          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.904             | 0.046          | 0                 | 0 | 1          | 1            |
| PL.21221                 | PL.20663    | C   | #4 ACSR            | 7.28Y     | 121.4        | 0.00            | 3.63          | 0.48         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.039             | 0.004          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PD.3032                  | PL.21221    | C   | 20T                | 7.28Y     | 121.4        | 0.00            | 3.63          | 0.48         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.039             | 0.004          | 0                 | 0 | 0          | 2            |
| PL.21222                 | PD.3032     | C   | #4 ACSR            | 7.28Y     | 121.4        | 0.00            | 3.63          | 0.48         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.204             | 0.165          | 0                 | 0 | 0          | 2            |
| PL.20660                 | PL.21222    | C   | #4 ACSR            | 7.28Y     | 121.4        | 0.00            | 3.64          | 0.48         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.361             | 0.157          | 0                 | 0 | 0          | 2            |
| PL.20659                 | PL.20660    | C   | #4 ACSR            | 7.28Y     | 121.4        | 0.00            | 3.64          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.428             | 0.066          | 0                 | 0 | 0          | 0            |
| PL.20946                 | PL.20660    | C   | #4 ACSR            | 7.28Y     | 121.4        | 0.00            | 3.64          | 0.48         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.425             | 0.064          | 3                 | 1 | 1          | 2            |
| PL.20947                 | PL.20946    | C   | #4 ACSR            | 7.28Y     | 121.4        | 0.00            | 3.64          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.495             | 0.070          | 0                 | 0 | 0          | 1            |
| PL.20662                 | PL.20947    | C   | #4 ACSR            | 7.28Y     | 121.4        | 0.00            | 3.64          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.604             | 0.109          | 0                 | 0 | 1          | 1            |
| PL.21183                 | PL.21180    | C   | 6 A (CWC)          | 7.28Y     | 121.4        | 0.00            | 3.59          | 0.72         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 7.984             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3013                  | PL.21183    | C   | 20T                | 7.28Y     | 121.4        | 0.00            | 3.59          | 0.72         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 7.984             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.21184                 | PD.3013     | C   | 6 A (CWC)          | 7.28Y     | 121.4        | 0.00            | 3.59          | 0.72         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.078             | 0.094          | 1                 | 0 | 1          | 2            |
| PL.20664                 | PL.21184    | C   | #2 ACSR            | 7.28Y     | 121.4        | 0.00            | 3.59          | 0.64         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 8.096             | 0.018          | 4                 | 1 | 1          | 1            |
| PL.21181                 | PL.20658    | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.00            | 3.47          | 2.56         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 7.832             | 0.004          | 0                 | 0 | 0          | 10           |
| PD.3012                  | PL.21181    | C   | 20T                | 7.29Y     | 121.5        | 0.00            | 3.47          | 2.56         | 0        | 18         | 5    | 96      | 0.00       | 0.0       | 7.832             | 0.004          | 0                 | 0 | 0          | 10           |
| PL.21182                 | PD.3012     | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.01            | 3.48          | 2.56         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 7.882             | 0.049          | 3                 | 1 | 2          | 10           |
| PL.21077                 | PL.21182    | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.00            | 3.48          | 2.19         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 7.923             | 0.042          | 2                 | 1 | 2          | 8            |
| PL.21068                 | PL.21077    | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.00            | 3.49          | 1.89         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 7.968             | 0.045          | 3                 | 1 | 4          | 6            |
| PL.21073                 | PL.21068    | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.00            | 3.49          | 1.52         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 7.987             | 0.019          | 9                 | 2 | 1          | 2            |
| PL.21074                 | PL.21073    | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.00            | 3.49          | 0.30         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.036             | 0.048          | 2                 | 1 | 1          | 1            |
| PL.20657                 | PL.20655    | C   | #4 ACSR            | 7.31Y     | 121.8        | 0.00            | 3.21          | 0.04         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.556             | 0.020          | 0                 | 0 | 1          | 1            |
| PL.21235                 | PL.20552    | C   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.10          | 0.04         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.423             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3043                  | PL.21235    | C   | 20T                | 7.31Y     | 121.9        | 0.00            | 3.10          | 0.04         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.423             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.21236                 | PD.3043     | C   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.10          | 0.04         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.452             | 0.029          | 0                 | 0 | 1          | 1            |
| PL.21146                 | PL.20556    | A   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.04            | 3.04          | 15.90        | 11       | 112        | 32   | 96      | 0.03       | 0.0       | 7.377             | 0.052          | 8                 | 2 | 1          | 34           |
| PL.21147                 | PL.21146    | A   | 6 A (CWC)          | 7.32Y     | 121.9        | 0.01            | 3.05          | 14.81        | 11       | 104        | 30   | 96      | 0.01       | 0.0       | 7.395             | 0.018          | 3                 | 1 | 1          | 33           |
| PL.21244                 | PL.21147    | A   | 6 A (CWC)          | 7.31Y     | 121.9        | 0.07            | 3.12          | 14.33        | 10       | 101        | 29   | 96      | 0.05       | 0.1       | 7.504             | 0.110          | 7                 | 2 | 2          | 32           |
| PL.20957                 | PL.21244    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.08            | 3.20          | 13.36        | 10       | 94         | 27   | 96      | 0.06       | 0.1       | 7.643             | 0.139          | 9                 | 3 | 1          | 30           |
| PL.20958                 | PL.20957    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.04            | 3.24          | 12.10        | 9        | 85         | 24   | 96      | 0.02       | 0.0       | 7.713             | 0.069          | 0                 | 0 | 0          | 29           |
| PL.20948                 | PL.20958    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.09            | 3.33          | 12.10        | 9        | 85         | 24   | 96      | 0.05       | 0.1       | 7.869             | 0.156          | 1                 | 0 | 3          | 29           |
| PL.20955                 | PL.20948    | A   | #4 ACSR            | 7.30Y     | 121.6        | 0.03            | 3.35          | 9.73         | 7        | 68         | 19   | 96      | 0.01       | 0.0       | 7.935             | 0.067          | 10                | 3 | 2          | 19           |
| PL.20956                 | PL.20955    | A   | #4 ACSR            | 7.30Y     | 121.6        | 0.03            | 3.39          | 8.30         | 6        | 58         | 16   | 96      | 0.01       | 0.0       | 8.028             | 0.093          | 2                 | 0 | 1          | 17           |
| PL.20637                 | PL.20956    | A   | #4 ACSR            | 7.30Y     | 121.6        | 0.02            | 3.41          | 8.05         | 6        | 57         | 16   | 96      | 0.01       | 0.0       | 8.079             | 0.051          | 4                 | 1 | 1          | 16           |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.20580                 | PL.20637    | A   | #4 ACSR            | 7.30Y     | 121.6        | 0.00            | 3.41          | 7.46         | 6        | 52         | 15   | 96      | 0.00       | 0.0       | 8.084             | 0.004          | 0                 | 0 | 0          | 15           |
| PD.2975                  | PL.20580    | A   | 12T                | 7.30Y     | 121.6        | 0.00            | 3.41          | 7.46         | 0        | 52         | 15   | 96      | 0.00       | 0.0       | 8.084             | 0.004          | 0                 | 0 | 0          | 15           |
| PL.20581                 | PD.2975     | A   | #4 ACSR            | 7.30Y     | 121.6        | 0.01            | 3.41          | 7.46         | 6        | 52         | 15   | 96      | 0.00       | 0.0       | 8.109             | 0.025          | 5                 | 1 | 2          | 15           |
| PL.20952                 | PL.20581    | A   | #4 ACSR            | 7.29Y     | 121.6        | 0.01            | 3.43          | 6.24         | 5        | 44         | 12   | 96      | 0.00       | 0.0       | 8.165             | 0.056          | 5                 | 1 | 1          | 11           |
| PL.20639                 | PL.20952    | A   | #4 ACSR            | 7.29Y     | 121.6        | 0.00            | 3.43          | 0.72         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.233             | 0.068          | 0                 | 0 | 0          | 1            |
| PL.20654                 | PL.20639    | A   | #4 ACSR            | 7.29Y     | 121.6        | 0.00            | 3.43          | 0.72         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.315             | 0.081          | 5                 | 1 | 1          | 1            |
| PL.20640                 | PL.20952    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.02            | 3.45          | 4.87         | 4        | 34         | 10   | 96      | 0.01       | 0.0       | 8.270             | 0.105          | 0                 | 0 | 0          | 9            |
| PL.20558                 | PL.20640    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.02            | 3.47          | 4.87         | 4        | 34         | 10   | 96      | 0.01       | 0.0       | 8.374             | 0.104          | 0                 | 0 | 0          | 9            |
| PL.20641                 | PL.20558    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.48          | 0.37         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.469             | 0.095          | 3                 | 1 | 2          | 2            |
| PL.20642                 | PL.20558    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.02            | 3.50          | 4.50         | 3        | 32         | 9    | 96      | 0.01       | 0.0       | 8.487             | 0.113          | 0                 | 0 | 0          | 7            |
| PL.20643                 | PL.20642    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.01            | 3.51          | 4.50         | 3        | 32         | 9    | 96      | 0.00       | 0.0       | 8.554             | 0.067          | 0                 | 0 | 1          | 7            |
| PL.20646                 | PL.20643    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.51          | 0.84         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.647             | 0.093          | 6                 | 2 | 1          | 1            |
| PL.20644                 | PL.20643    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.51          | 3.62         | 3        | 25         | 7    | 96      | 0.00       | 0.0       | 8.565             | 0.011          | 0                 | 0 | 0          | 5            |
| PL.20645                 | PL.20644    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.51          | 0.76         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.676             | 0.110          | 5                 | 1 | 1          | 1            |
| PL.21069                 | PL.20644    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.51          | 2.86         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 8.589             | 0.024          | 14                | 4 | 2          | 4            |
| PL.21070                 | PL.21069    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.01            | 3.52          | 0.81         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.755             | 0.166          | 0                 | 0 | 0          | 2            |
| PL.20559                 | PL.21070    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.01            | 3.53          | 0.81         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.930             | 0.176          | 0                 | 0 | 0          | 2            |
| PL.20647                 | PL.20559    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.01            | 3.53          | 0.81         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.109             | 0.179          | 0                 | 0 | 0          | 2            |
| PL.21071                 | PL.20647    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.54          | 0.81         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.249             | 0.140          | 5                 | 1 | 1          | 2            |
| PL.21072                 | PL.21071    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.54          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 9.399             | 0.150          | 1                 | 0 | 1          | 1            |
| PL.20638                 | PL.20581    | A   | #4 ACSR            | 7.30Y     | 121.6        | 0.00            | 3.42          | 0.49         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.176             | 0.067          | 3                 | 1 | 2          | 2            |
| PL.20949                 | PL.20948    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.02            | 3.34          | 1.42         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 8.116             | 0.247          | 0                 | 0 | 0          | 5            |
| PL.21144                 | PL.20949    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.34          | 0.66         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.167             | 0.052          | 0                 | 0 | 1          | 3            |
| PL.21145                 | PL.21144    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.35          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 8.280             | 0.113          | 5                 | 1 | 2          | 2            |
| PL.20768                 | PL.20949    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.01            | 3.35          | 0.75         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.349             | 0.233          | 4                 | 1 | 1          | 2            |
| PL.20648                 | PL.20768    | A   | #2 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.35          | 0.24         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 8.364             | 0.015          | 2                 | 0 | 1          | 1            |
| PL.20649                 | PL.20768    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.35          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.528             | 0.179          | 0                 | 0 | 0          | 0            |
| PL.20652                 | PL.20649    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.00            | 3.35          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.688             | 0.160          | 0                 | 0 | 0          | 0            |
| PL.20953                 | PL.20948    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.00            | 3.33          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 7.964             | 0.095          | 0                 | 0 | 0          | 1            |
| PL.20954                 | PL.20953    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.00            | 3.33          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.011             | 0.047          | 0                 | 0 | 0          | 1            |
| PL.20634                 | PL.20954    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.00            | 3.33          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.127             | 0.116          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.20635                 | PL.20634    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.33          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.186             | 0.059          | 0                 | 0 | 0          | 0            |
| PL.20790                 | PL.20634    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.00            | 3.33          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.263             | 0.137          | 0                 | 0 | 0          | 1            |
| PL.20557                 | PL.20790    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.00            | 3.34          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.326             | 0.062          | 0                 | 0 | 0          | 1            |
| PL.20636                 | PL.20557    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.34          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.474             | 0.148          | 3                 | 1 | 1          | 1            |
| PL.20650                 | PL.20557    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.00            | 3.34          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.363             | 0.038          | 0                 | 0 | 0          | 0            |
| PL.20631                 | PL.20948    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.33          | 0.39         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 7.998             | 0.129          | 0                 | 0 | 0          | 1            |
| PL.20632                 | PL.20631    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.33          | 0.39         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.142             | 0.145          | 3                 | 1 | 1          | 1            |
| PL.20590                 | PL.20554    | A   | 6 A (CWC)          | 7.34Y     | 122.4        | 0.00            | 2.65          | 2.58         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 6.886             | 0.005          | 0                 | 0 | 0          | 7            |
| PD.2979                  | PL.20590    | A   | 20T                | 7.34Y     | 122.4        | 0.00            | 2.65          | 2.58         | 0        | 18         | 5    | 96      | 0.00       | 0.0       | 6.886             | 0.005          | 0                 | 0 | 0          | 7            |
| PL.20591                 | PD.2979     | A   | 6 A (CWC)          | 7.34Y     | 122.3        | 0.02            | 2.67          | 2.58         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 7.059             | 0.174          | 0                 | 0 | 0          | 7            |
| PL.20546                 | PL.20591    | A   | 6 A (CWC)          | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.56         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 7.140             | 0.080          | 3                 | 1 | 1          | 4            |
| PL.20550                 | PL.20546    | A   | #2 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.17         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.164             | 0.024          | 1                 | 0 | 3          | 3            |
| PL.20548                 | PL.20591    | A   | #4 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.67          | 2.02         | 2        | 14         | 4    | 96      | 0.00       | 0.0       | 7.096             | 0.037          | 0                 | 0 | 0          | 3            |
| PL.20789                 | PL.20548    | A   | #4 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.67          | 1.08         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 7.183             | 0.087          | 0                 | 0 | 0          | 2            |
| PL.20549                 | PL.20789    | A   | #4 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.68          | 1.08         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 7.280             | 0.097          | 3                 | 1 | 1          | 2            |
| PL.20769                 | PL.20549    | A   | #4 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.68          | 0.67         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 7.378             | 0.098          | 5                 | 1 | 1          | 1            |
| PL.20586                 | PL.20548    | A   | #1/0 ACSR          | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.94         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 7.101             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.2977                  | PL.20586    | A   | 12T                | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.94         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 7.101             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.20587                 | PD.2977     | A   | #1/0 ACSR          | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.94         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 7.157             | 0.056          | 7                 | 2 | 1          | 1            |
| PL.20588                 | PL.20788    | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.00            | 2.42          | 0.64         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 6.627             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.2978                  | PL.20588    | C   | 20T                | 7.35Y     | 122.6        | 0.00            | 2.42          | 0.64         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 6.627             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.20589                 | PD.2978     | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.00            | 2.42          | 0.64         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 6.705             | 0.078          | 2                 | 0 | 1          | 2            |
| PL.20545                 | PL.20589    | C   | #4 ACSR            | 7.35Y     | 122.6        | 0.00            | 2.42          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.813             | 0.108          | 0                 | 0 | 0          | 1            |
| PL.20861                 | PL.20545    | C   | #4 ACSR            | 7.35Y     | 122.6        | 0.00            | 2.43          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.929             | 0.116          | 0                 | 0 | 0          | 1            |
| PL.20553                 | PL.20861    | C   | #4 ACSR            | 7.35Y     | 122.6        | 0.00            | 2.43          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.971             | 0.042          | 3                 | 1 | 1          | 1            |
| PL.20537                 | PL.20535    | C   | #2 ACSR            | 7.38Y     | 123.0        | 0.00            | 2.02          | 1.70         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 6.172             | 0.005          | 0                 | 0 | 0          | 5            |
| PD.3040                  | PL.20537    | C   | 20T                | 7.38Y     | 123.0        | 0.00            | 2.02          | 1.70         | 0        | 12         | 3    | 97      | 0.00       | 0.0       | 6.172             | 0.005          | 0                 | 0 | 0          | 5            |
| PL.20933                 | PD.3040     | C   | #1/0 ACSR          | 7.38Y     | 123.0        | 0.00            | 2.02          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.176             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.20934                 | PL.20933    | C   | #1/0 ACSR          | 7.38Y     | 123.0        | 0.00            | 2.02          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.176             | 0.000          | 0                 | 0 | 0          | 1            |
| PL.20536                 | PL.20934    | C   | #1/0 ACSR          | 7.38Y     | 123.0        | 0.00            | 2.02          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.210             | 0.034          | 2                 | 1 | 1          | 1            |
| PL.20935                 | PD.3040     | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 2.02          | 0.47         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.182             | 0.010          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.20936                 | PL.20935    | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 2.02          | 0.47         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.182             | 0.000          | 0                 | 0 | 0          | 3            |
| PL.20538                 | PL.20936    | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 2.02          | 0.47         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.259             | 0.077          | 1                 | 0 | 1          | 3            |
| PL.20540                 | PL.20538    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 2.02          | 0.26         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.300             | 0.041          | 2                 | 1 | 2          | 2            |
| PL.20787                 | PD.3040     | C   | #2 ACSR            | 7.38Y     | 123.0        | 0.00            | 2.02          | 0.92         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 6.230             | 0.058          | 7                 | 2 | 1          | 1            |
| PL.20592                 | PL.20533    | C   | 6 A (CWC)          | 7.38Y     | 123.1        | 0.00            | 1.95          | 1.21         | 1        | 9          | 2    | 98      | 0.00       | 0.0       | 6.095             | 0.004          | 0                 | 0 | 0          | 3            |
| PD.2980                  | PL.20592    | C   | 20T                | 7.38Y     | 123.1        | 0.00            | 1.95          | 1.21         | 0        | 9          | 2    | 98      | 0.00       | 0.0       | 6.095             | 0.004          | 0                 | 0 | 0          | 3            |
| PL.20593                 | PD.2980     | C   | 6 A (CWC)          | 7.38Y     | 123.1        | 0.00            | 1.95          | 1.21         | 1        | 9          | 2    | 98      | 0.00       | 0.0       | 6.142             | 0.047          | 9                 | 2 | 3          | 3            |
| PL.21187                 | PL.20925    | C   | 6 A (CWC)          | 7.44Y     | 124.0        | 0.00            | 0.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.564             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3015                  | PL.21187    | C   | 50T                | 7.44Y     | 124.0        | 0.00            | 0.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.564             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.21188                 | PD.3015     | C   | 6 A (CWC)          | 7.44Y     | 124.0        | 0.00            | 0.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.720             | 0.156          | 0                 | 0 | 0          | 2            |
| PL.20853                 | PL.21188    | C   | 6 A (CWC)          | 7.44Y     | 124.0        | 0.00            | 0.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.858             | 0.138          | 0                 | 0 | 0          | 2            |
| PL.20854                 | PL.20853    | C   | 6 A (CWC)          | 7.44Y     | 124.0        | 0.00            | 0.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.014             | 0.156          | 0                 | 0 | 1          | 2            |
| PL.20529                 | PL.20854    | C   | 6 A (CWC)          | 7.44Y     | 124.0        | 0.00            | 0.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.217             | 0.203          | 0                 | 0 | 0          | 1            |
| PL.20855                 | PL.20529    | C   | 6 A (CWC)          | 7.44Y     | 124.0        | 0.00            | 0.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.302             | 0.085          | 0                 | 0 | 1          | 1            |
| PL.21114                 | PL.20844    | B   | 6 A (CWC)          | 7.38Y     | 123.1        | 0.01            | 1.94          | 1.33         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 3.555             | 0.161          | 2                 | 1 | 1          | 5            |
| PL.21251                 | PL.21114    | B   | 6 A (CWC)          | 7.38Y     | 123.1        | 0.00            | 1.94          | 1.05         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 3.557             | 0.003          | 0                 | 0 | 0          | 4            |
| PD.3052                  | PL.21251    | B   | 35L                | 7.38Y     | 123.1        | 0.00            | 1.94          | 1.05         | 3        | 7          | 2    | 96      | 0.00       | 0.0       | 3.557             | 0.003          | 0                 | 0 | 0          | 4            |
| PL.21252                 | PD.3052     | B   | 6 A (CWC)          | 7.38Y     | 123.1        | 0.00            | 1.94          | 1.05         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 3.649             | 0.092          | 0                 | 0 | 0          | 4            |
| PL.19375                 | PL.21252    | B   | 6 A (CWC)          | 7.38Y     | 123.1        | 0.00            | 1.95          | 1.05         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 3.752             | 0.103          | 0                 | 0 | 0          | 4            |
| PL.20845                 | PL.19375    | B   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 1.95          | 1.05         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 3.854             | 0.103          | 0                 | 0 | 0          | 4            |
| PL.20846                 | PL.20845    | B   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 1.96          | 1.05         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 3.948             | 0.094          | 0                 | 0 | 0          | 4            |
| PL.20783                 | PL.20846    | B   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.01            | 1.96          | 1.05         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 4.096             | 0.147          | 0                 | 0 | 0          | 4            |
| PL.20527                 | PL.20783    | B   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 1.97          | 1.05         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 4.172             | 0.076          | 3                 | 1 | 3          | 4            |
| PL.20528                 | PL.20527    | B   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 1.97          | 0.59         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.305             | 0.134          | 0                 | 0 | 0          | 1            |
| PL.20847                 | PL.20528    | B   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 1.97          | 0.59         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.437             | 0.132          | 0                 | 0 | 0          | 1            |
| PL.20848                 | PL.20847    | B   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 1.98          | 0.59         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.484             | 0.046          | 0                 | 0 | 0          | 1            |
| PL.20679                 | PL.20848    | B   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.98          | 0.59         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.647             | 0.163          | 0                 | 0 | 0          | 1            |
| PL.21096                 | PL.20679    | B   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.98          | 0.59         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.694             | 0.047          | 0                 | 0 | 0          | 1            |
| PL.21097                 | PL.21096    | B   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.98          | 0.59         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.778             | 0.084          | 4                 | 1 | 1          | 1            |
| PL.20676                 | PL.21097    | B   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.921             | 0.143          | 0                 | 0 | 0          | 0            |
| PL.20849                 | PL.20676    | B   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.023             | 0.102          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.20677                 | PL.20849    | B   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.082             | 0.059          | 0                 | 0 | 0          | 0            |
| PL.21094                 | PL.20527    | B   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 1.97          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.260             | 0.088          | 0                 | 0 | 0          | 0            |
| PL.21095                 | PL.21094    | B   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 1.97          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.429             | 0.169          | 0                 | 0 | 0          | 0            |
| CP.33                    | PL.21263    | ABC | Cap (300)          | 7.41Y     | 123.4        | 0.00            | 1.56          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.703             | 0.169          | 0                 | 0 | 0          | 0            |
| PL.21201                 | PL.20778    | C   | #1/0 ACSR          | 7.41Y     | 123.5        | 0.00            | 1.50          | 1.20         | 1        | 9          | 2    | 98      | 0.00       | 0.0       | 2.588             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3022                  | PL.21201    | C   | 50T                | 7.41Y     | 123.5        | 0.00            | 1.50          | 1.20         | 0        | 9          | 2    | 98      | 0.00       | 0.0       | 2.588             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.21202                 | PD.3022     | C   | #1/0 ACSR          | 7.41Y     | 123.5        | 0.00            | 1.50          | 1.20         | 1        | 9          | 2    | 98      | 0.00       | 0.0       | 2.676             | 0.088          | 9                 | 2 | 1          | 1            |
| PL.20525                 | PL.20835    | B   | 6 A (CWC)          | 7.41Y     | 123.5        | 0.03            | 1.47          | 11.20        | 8        | 80         | 23   | 96      | 0.02       | 0.0       | 2.540             | 0.068          | 0                 | 0 | 0          | 18           |
| PL.20526                 | PL.20525    | B   | #1/0 ACSR          | 7.41Y     | 123.5        | 0.00            | 1.47          | 0.03         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.571             | 0.031          | 0                 | 0 | 1          | 1            |
| PL.21127                 | PL.20525    | B   | 6 A (CWC)          | 7.41Y     | 123.5        | 0.03            | 1.50          | 11.16        | 8        | 80         | 22   | 96      | 0.02       | 0.0       | 2.593             | 0.054          | 6                 | 2 | 1          | 17           |
| PL.21253                 | PL.21127    | B   | 6 A (CWC)          | 7.41Y     | 123.5        | 0.03            | 1.53          | 10.36        | 7        | 74         | 21   | 96      | 0.01       | 0.0       | 2.650             | 0.056          | 0                 | 0 | 0          | 16           |
| PD.3053                  | PL.21253    | B   | 35L                | 7.41Y     | 123.5        | 0.00            | 1.53          | 10.36        | 30       | 74         | 21   | 96      | 0.00       | 0.0       | 2.650             | 0.056          | 0                 | 0 | 0          | 16           |
| PL.21254                 | PD.3053     | B   | 6 A (CWC)          | 7.41Y     | 123.5        | 0.00            | 1.53          | 10.36        | 7        | 74         | 21   | 96      | 0.00       | 0.0       | 2.652             | 0.003          | 8                 | 2 | 1          | 16           |
| PL.21132                 | PL.21254    | B   | 6 A (CWC)          | 7.41Y     | 123.5        | 0.01            | 1.54          | 4.41         | 3        | 31         | 9    | 96      | 0.00       | 0.0       | 2.697             | 0.045          | 0                 | 0 | 1          | 9            |
| PL.21133                 | PL.21132    | B   | 6 A (CWC)          | 7.41Y     | 123.5        | 0.01            | 1.54          | 4.37         | 3        | 31         | 9    | 96      | 0.00       | 0.0       | 2.736             | 0.039          | 7                 | 2 | 1          | 8            |
| PL.21134                 | PL.21133    | B   | 6 A (CWC)          | 7.41Y     | 123.4        | 0.02            | 1.57          | 3.32         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 2.883             | 0.147          | 0                 | 0 | 0          | 7            |
| PL.21122                 | PL.21134    | B   | 6 A (CWC)          | 7.41Y     | 123.4        | 0.01            | 1.58          | 3.32         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 2.983             | 0.099          | 1                 | 0 | 1          | 7            |
| PL.21123                 | PL.21122    | B   | 6 A (CWC)          | 7.40Y     | 123.4        | 0.02            | 1.60          | 3.22         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 3.105             | 0.122          | 0                 | 0 | 0          | 6            |
| PL.20837                 | PL.21123    | B   | 6 A (CWC)          | 7.40Y     | 123.4        | 0.02            | 1.62          | 3.22         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 3.272             | 0.167          | 0                 | 0 | 0          | 6            |
| PL.20838                 | PL.20837    | B   | 6 A (CWC)          | 7.40Y     | 123.4        | 0.02            | 1.64          | 3.22         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 3.391             | 0.119          | 0                 | 0 | 0          | 6            |
| PL.21137                 | PL.20838    | B   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.01            | 1.65          | 3.22         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 3.465             | 0.074          | 0                 | 0 | 0          | 6            |
| PL.21138                 | PL.21137    | B   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.02            | 1.67          | 3.22         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 3.592             | 0.127          | 0                 | 0 | 0          | 6            |
| PL.20839                 | PL.21138    | B   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.01            | 1.68          | 3.22         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 3.680             | 0.088          | 0                 | 0 | 1          | 6            |
| PL.19365                 | PL.20839    | B   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.03            | 1.71          | 3.22         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 3.855             | 0.175          | 0                 | 0 | 0          | 5            |
| PL.21139                 | PL.19365    | B   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.01            | 1.72          | 3.22         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 3.936             | 0.081          | 6                 | 2 | 1          | 5            |
| PL.21140                 | PL.21139    | B   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.72          | 2.42         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 3.968             | 0.032          | 0                 | 0 | 1          | 4            |
| PL.21141                 | PL.21140    | B   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.73          | 2.42         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 4.009             | 0.041          | 0                 | 0 | 0          | 3            |
| PL.19366                 | PL.21141    | B   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.02            | 1.74          | 2.42         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 4.149             | 0.140          | 0                 | 0 | 0          | 3            |
| PL.20780                 | PL.19366    | B   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.01            | 1.76          | 1.83         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 4.287             | 0.138          | 0                 | 0 | 0          | 2            |
| PL.20840                 | PL.20780    | B   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.01            | 1.76          | 1.83         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 4.392             | 0.106          | 0                 | 0 | 0          | 2            |
| PL.20841                 | PL.20840    | B   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.01            | 1.77          | 1.83         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 4.518             | 0.125          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.19368                 | PL.20841      | B   | #4 ACSR            | 7.39Y     | 123.2        | 0.01            | 1.79          | 1.83         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 4.680             | 0.162          | 2                 | 1 | 1          | 2            |
| PL.19374                 | PL.19368      | B   | #1/0 ACSR          | 7.39Y     | 123.2        | 0.00            | 1.79          | 1.54         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 4.826             | 0.146          | 11                | 3 | 1          | 1            |
| PL.19367                 | PL.19366      | B   | #2 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.74          | 0.59         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.197             | 0.048          | 4                 | 1 | 1          | 1            |
| PL.19364                 | PL.20839      | B   | #2 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.68          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.717             | 0.037          | 0                 | 0 | 0          | 0            |
| PL.21128                 | PL.21254      | B   | 6 A (CWC)          | 7.41Y     | 123.5        | 0.02            | 1.55          | 4.83         | 3        | 34         | 10   | 96      | 0.00       | 0.0       | 2.754             | 0.102          | 7                 | 2 | 2          | 6            |
| PL.21129                 | PL.21128      | B   | 6 A (CWC)          | 7.41Y     | 123.4        | 0.01            | 1.55          | 3.84         | 3        | 27         | 8    | 96      | 0.00       | 0.0       | 2.787             | 0.033          | 0                 | 0 | 0          | 4            |
| PL.20779                 | PL.21129      | B   | 6 A (CWC)          | 7.41Y     | 123.4        | 0.01            | 1.56          | 2.96         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 2.845             | 0.058          | 10                | 3 | 1          | 2            |
| PL.19370                 | PL.20779      | B   | 6 A (CWC)          | 7.41Y     | 123.4        | 0.00            | 1.56          | 1.59         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 2.898             | 0.053          | 0                 | 0 | 0          | 1            |
| PL.19371                 | PL.19370      | B   | #1/0 ACSR          | 7.41Y     | 123.4        | 0.00            | 1.56          | 1.59         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 2.939             | 0.041          | 11                | 3 | 1          | 1            |
| PL.19369                 | PL.21129      | B   | #1/0 ACSR          | 7.41Y     | 123.4        | 0.00            | 1.55          | 0.89         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 2.821             | 0.034          | 6                 | 2 | 2          | 2            |
| PL.20524                 | PL.20776      | ABC | #2 ACSR            | 7.43Y     | 123.8        | 0.00            | 1.24          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.181             | 0.065          | 0                 | 0 | 0          | 0            |
| PL.21209                 | PL.20914      | C   | 6 A (CWC)          | 7.44Y     | 124.1        | 0.00            | 0.93          | 3.77         | 3        | 27         | 8    | 96      | 0.00       | 0.0       | 1.573             | 0.005          | 0                 | 0 | 0          | 6            |
| PD.3026                  | PL.21209      | C   | 50T                | 7.44Y     | 124.1        | 0.00            | 0.93          | 3.77         | 0        | 27         | 8    | 96      | 0.00       | 0.0       | 1.573             | 0.005          | 0                 | 0 | 0          | 6            |
| PL.21210                 | PD.3026       | C   | 6 A (CWC)          | 7.44Y     | 124.1        | 0.02            | 0.95          | 3.77         | 3        | 27         | 8    | 96      | 0.00       | 0.0       | 1.689             | 0.116          | 0                 | 0 | 0          | 6            |
| PL.21124                 | PL.21210      | C   | 6 A (CWC)          | 7.44Y     | 124.0        | 0.01            | 0.96          | 3.77         | 3        | 27         | 8    | 96      | 0.00       | 0.0       | 1.779             | 0.090          | 2                 | 1 | 1          | 6            |
| PL.21125                 | PL.21124      | C   | 6 A (CWC)          | 7.44Y     | 124.0        | 0.00            | 0.96          | 3.43         | 2        | 25         | 7    | 96      | 0.00       | 0.0       | 1.837             | 0.059          | 25                | 7 | 4          | 5            |
| PL.21126                 | PL.21125      | C   | 6 A (CWC)          | 7.44Y     | 124.0        | 0.00            | 0.96          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 1.914             | 0.076          | 0                 | 0 | 1          | 1            |
| PL.20519                 | PL.19887      | A   | #1/0 ACSR          | 7.47Y     | 124.5        | 0.00            | 0.54          | 1.29         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 0.982             | 0.074          | 0                 | 0 | 1          | 2            |
| PL.21211                 | PL.20519      | A   | #1/0 ACSR          | 7.47Y     | 124.5        | 0.00            | 0.54          | 1.29         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 0.987             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3027                  | PL.21211      | A   | 50T                | 7.47Y     | 124.5        | 0.00            | 0.54          | 1.29         | 0        | 9          | 3    | 95      | 0.00       | 0.0       | 0.987             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.21212                 | PD.3027       | A   | #1/0 ACSR          | 7.47Y     | 124.5        | 0.00            | 0.54          | 1.29         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 1.089             | 0.102          | 0                 | 0 | 0          | 1            |
| PL.20830                 | PL.21212      | A   | #1/0 ACSR          | 7.47Y     | 124.5        | 0.00            | 0.55          | 1.29         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 1.202             | 0.113          | 9                 | 3 | 1          | 1            |
| PL.19884                 | PL.28004      | ABC | #1/0 ACSR          | 7.50Y     | 125.0        | 0.00            | 0.01          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.019             | 0.005          | 0                 | 0 | 0          | 0            |
| PL.21530                 | Millers Creek | ABC | #3/0 ACSR          | 7.50Y     | 125.0        | 0.01            | 0.01          | 95.60        | 32       | 2037       | 692  | 95      | 0.13       | 0.0       | 0.009             | 0.009          | 0                 | 0 | 0          | 539          |
| PL.28001                 | PL.21530      | ABC | #3/0 ACSR          | 7.50Y     | 125.0        | 0.00            | 0.01          | 95.60        | 32       | 2036       | 692  | 95      | 0.03       | 0.0       | 0.010             | 0.002          | 0                 | 0 | 0          | 539          |

----- Feeder No. 1 (Cobb Hill F1) Beginning with Device PD.3872 -----

|          |          |     |           |       |       |      |      |       |    |      |     |    |      |     |       |       |   |   |   |     |
|----------|----------|-----|-----------|-------|-------|------|------|-------|----|------|-----|----|------|-----|-------|-------|---|---|---|-----|
| PD.3872  | PL.28001 | ABC | 200VWE    | 7.50Y | 125.0 | 0.00 | 0.01 | 95.60 | 0  | 2036 | 692 | 95 | 0.00 | 0.0 | 0.010 | 0.002 | 0 | 0 | 0 | 539 |
| PL.28002 | PD.3872  | ABC | #3/0 ACSR | 7.49Y | 124.8 | 0.21 | 0.23 | 95.60 | 32 | 2036 | 692 | 95 | 2.60 | 0.1 | 0.179 | 0.169 | 0 | 0 | 0 | 539 |
| PL.23478 | PL.28002 | ABC | #3/0 ACSR | 7.48Y | 124.6 | 0.13 | 0.36 | 95.60 | 32 | 2034 | 688 | 95 | 1.64 | 0.1 | 0.286 | 0.107 | 0 | 0 | 0 | 539 |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23198                 | PL.23478    | ABC | #3/0 ACSR          | 7.47Y     | 124.5        | 0.16            | 0.52          | 95.60        | 32       | 2032       | 686  | 95      | 1.93       | 0.1       | 0.412             | 0.126          | 0                 | 0 | 0          | 539          |
| PL.23199                 | PL.23198    | ABC | #3/0 ACSR          | 7.46Y     | 124.3        | 0.20            | 0.72          | 95.60        | 32       | 2030       | 683  | 95      | 2.47       | 0.1       | 0.573             | 0.161          | 0                 | 0 | 0          | 539          |
| PL.23479                 | PL.23199    | ABC | #3/0 ACSR          | 7.45Y     | 124.2        | 0.09            | 0.81          | 95.05        | 32       | 2016       | 676  | 95      | 1.03       | 0.1       | 0.641             | 0.068          | 2                 | 1 | 1          | 536          |
| PL.23480                 | PL.23479    | ABC | #3/0 ACSR          | 7.44Y     | 124.0        | 0.22            | 1.03          | 94.97        | 32       | 2013       | 674  | 95      | 2.66       | 0.1       | 0.817             | 0.176          | 0                 | 0 | 0          | 535          |
| PL.23140                 | PL.23480    | ABC | #3/0 ACSR          | 7.44Y     | 124.0        | 0.01            | 1.04          | 89.03        | 30       | 1883       | 634  | 95      | 0.16       | 0.0       | 0.829             | 0.012          | 0                 | 0 | 0          | 495          |
| PL.23143                 | PL.23140    | ABC | #3/0 ACSR          | 7.43Y     | 123.8        | 0.12            | 1.16          | 89.03        | 30       | 1883       | 634  | 95      | 1.39       | 0.1       | 0.933             | 0.104          | 0                 | 0 | 0          | 495          |
| PL.23144                 | PL.23143    | ABC | #3/0 ACSR          | 7.42Y     | 123.7        | 0.18            | 1.35          | 88.86        | 30       | 1878       | 631  | 95      | 2.09       | 0.1       | 1.091             | 0.158          | 0                 | 0 | 0          | 494          |
| PL.23211                 | PL.23144    | ABC | #3/0 ACSR          | 7.41Y     | 123.5        | 0.11            | 1.46          | 88.86        | 30       | 1876       | 628  | 95      | 1.23       | 0.1       | 1.183             | 0.092          | 0                 | 0 | 0          | 494          |
| PL.23452                 | PL.23211    | ABC | #3/0 ACSR          | 7.40Y     | 123.4        | 0.13            | 1.59          | 88.86        | 30       | 1874       | 626  | 95      | 1.49       | 0.1       | 1.296             | 0.112          | 0                 | 0 | 1          | 494          |
| PL.23663                 | PL.23452    | C   | #4 ACSR            | 7.40Y     | 123.4        | 0.00            | 1.59          | 1.35         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 1.300             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3261                  | PL.23663    | C   | 50T                | 7.40Y     | 123.4        | 0.00            | 1.59          | 1.35         | 0        | 10         | 3    | 96      | 0.00       | 0.0       | 1.300             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.23664                 | PD.3261     | C   | #4 ACSR            | 7.40Y     | 123.4        | 0.00            | 1.59          | 1.35         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 1.380             | 0.080          | 10                | 3 | 1          | 1            |
| PL.23453                 | PL.23452    | ABC | #3/0 ACSR          | 7.40Y     | 123.3        | 0.11            | 1.70          | 88.41        | 29       | 1863       | 621  | 95      | 1.24       | 0.1       | 1.391             | 0.095          | 0                 | 0 | 0          | 492          |
| PL.23657                 | PL.23453    | C   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.70          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 1.395             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3258                  | PL.23657    | C   | 50T                | 7.40Y     | 123.3        | 0.00            | 1.70          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 1.395             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23658                 | PD.3258     | C   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.70          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 1.469             | 0.074          | 3                 | 1 | 1          | 1            |
| PL.23145                 | PL.23453    | ABC | #3/0 ACSR          | 7.39Y     | 123.2        | 0.12            | 1.81          | 88.26        | 29       | 1859       | 618  | 95      | 1.33       | 0.1       | 1.492             | 0.101          | 0                 | 0 | 0          | 491          |
| PL.23485                 | PL.23145    | ABC | #3/0 ACSR          | 7.39Y     | 123.1        | 0.05            | 1.87          | 66.47        | 22       | 1393       | 483  | 94      | 0.44       | 0.0       | 1.551             | 0.059          | 2                 | 1 | 1          | 324          |
| PL.23486                 | PL.23485    | ABC | #3/0 ACSR          | 7.38Y     | 123.1        | 0.08            | 1.95          | 66.38        | 22       | 1390       | 482  | 94      | 0.69       | 0.0       | 1.644             | 0.093          | 0                 | 0 | 0          | 323          |
| PL.22849                 | PL.23486    | ABC | #3/0 ACSR          | 7.38Y     | 123.0        | 0.05            | 2.00          | 66.38        | 22       | 1390       | 481  | 95      | 0.42       | 0.0       | 1.700             | 0.056          | 0                 | 0 | 0          | 323          |
| PL.22848                 | PL.22849    | ABC | #3/0 ACSR          | 7.38Y     | 123.0        | 0.05            | 2.05          | 66.38        | 22       | 1389       | 480  | 95      | 0.43       | 0.0       | 1.758             | 0.058          | 0                 | 0 | 0          | 323          |
| PL.23450                 | PL.22848    | ABC | #3/0 ACSR          | 7.37Y     | 122.8        | 0.14            | 2.19          | 66.38        | 22       | 1389       | 480  | 95      | 1.20       | 0.1       | 1.920             | 0.162          | 1                 | 0 | 1          | 323          |
| PL.23451                 | PL.23450    | ABC | #3/0 ACSR          | 7.37Y     | 122.8        | 0.05            | 2.24          | 65.40        | 22       | 1366       | 472  | 95      | 0.43       | 0.0       | 1.979             | 0.059          | 0                 | 0 | 0          | 316          |
| PL.23667                 | PL.23451    | C   | #2 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.24          | 1.82         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 1.984             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3263                  | PL.23667    | C   | 50T                | 7.37Y     | 122.8        | 0.00            | 2.24          | 1.82         | 0        | 13         | 4    | 96      | 0.00       | 0.0       | 1.984             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.23668                 | PD.3263     | C   | #2 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.24          | 1.82         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 2.020             | 0.036          | 13                | 4 | 2          | 2            |
| PL.23481                 | PL.23668    | C   | #2 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.24          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.097             | 0.077          | 0                 | 0 | 0          | 0            |
| PL.23881                 | PL.23451    | ABC | #3/0 ACSR          | 7.36Y     | 122.7        | 0.04            | 2.29          | 64.79        | 22       | 1353       | 468  | 95      | 0.37       | 0.0       | 2.031             | 0.052          | 0                 | 0 | 0          | 314          |
| C PD.3373                | PL.23881    | ABC | 70L                | 7.36Y     | 122.7        | 0.00            | 2.29          | 64.79        | 93       | 1353       | 467  | 95      | 0.00       | 0.0       | 2.031             | 0.052          | 0                 | 0 | 0          | 314 C        |
| PL.23882                 | PD.3373     | ABC | #3/0 ACSR          | 7.36Y     | 122.6        | 0.07            | 2.36          | 64.79        | 22       | 1353       | 467  | 95      | 0.57       | 0.0       | 2.111             | 0.080          | 0                 | 0 | 0          | 314          |
| PL.23163                 | PL.23882    | ABC | #3/0 ACSR          | 7.35Y     | 122.6        | 0.07            | 2.43          | 64.79        | 22       | 1352       | 466  | 95      | 0.59       | 0.0       | 2.195             | 0.083          | 0                 | 0 | 0          | 313          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.23482                 | PL.23163    | ABC | #3/0 ACSR          | 7.35Y     | 122.5        | 0.06            | 2.49          | 64.69        | 22       | 1350       | 465  | 95      | 0.51       | 0.0       | 2.268             | 0.073          | 0                 | 0 | 1          | 312          |
| PL.23483                 | PL.23482    | ABC | #3/0 ACSR          | 7.35Y     | 122.4        | 0.08            | 2.57          | 64.69        | 22       | 1349       | 464  | 95      | 0.65       | 0.0       | 2.360             | 0.092          | 5                 | 2 | 2          | 311          |
| PL.23484                 | PL.23483    | ABC | #3/0 ACSR          | 7.34Y     | 122.4        | 0.06            | 2.63          | 64.43        | 21       | 1343       | 462  | 95      | 0.50       | 0.0       | 2.432             | 0.072          | 0                 | 0 | 0          | 309          |
| PL.23164                 | PL.23484    | ABC | #3/0 ACSR          | 7.33Y     | 122.2        | 0.14            | 2.77          | 64.31        | 21       | 1340       | 460  | 95      | 1.16       | 0.1       | 2.599             | 0.167          | 0                 | 0 | 0          | 306          |
| PL.23260                 | PL.23164    | ABC | #3/0 ACSR          | 7.33Y     | 122.2        | 0.08            | 2.85          | 64.31        | 21       | 1338       | 458  | 95      | 0.63       | 0.0       | 2.689             | 0.091          | 0                 | 0 | 0          | 306          |
| PL.23262                 | PL.23260    | ABC | #3/0 ACSR          | 7.32Y     | 122.1        | 0.09            | 2.94          | 64.31        | 21       | 1338       | 457  | 95      | 0.72       | 0.1       | 2.793             | 0.103          | 0                 | 0 | 0          | 306          |
| PL.23261                 | PL.23262    | ABC | #3/0 ACSR          | 7.32Y     | 122.0        | 0.09            | 3.02          | 64.31        | 21       | 1337       | 456  | 95      | 0.70       | 0.1       | 2.893             | 0.100          | 0                 | 0 | 0          | 306          |
| PL.23489                 | PL.23261    | ABC | #3/0 ACSR          | 7.32Y     | 121.9        | 0.03            | 3.05          | 64.31        | 21       | 1336       | 455  | 95      | 0.26       | 0.0       | 2.930             | 0.037          | 8                 | 2 | 1          | 306          |
| PL.23490                 | PL.23489    | ABC | #3/0 ACSR          | 7.31Y     | 121.8        | 0.13            | 3.18          | 63.92        | 21       | 1328       | 453  | 95      | 1.04       | 0.1       | 3.082             | 0.152          | 0                 | 0 | 0          | 305          |
| PL.23865                 | PL.23490    | ABC | #3/0 ACSR          | 7.30Y     | 121.7        | 0.07            | 3.25          | 63.92        | 21       | 1327       | 451  | 95      | 0.56       | 0.0       | 3.164             | 0.082          | 0                 | 0 | 0          | 305          |
| PD.3365-A                | PL.23865    | ABC | Closed             | 7.30Y     | 121.7        | 0.00            | 3.25          | 63.92        | 0        | 1326       | 450  | 95      | 0.00       | 0.0       | 3.164             | 0.082          | 0                 | 0 | 0          | 305          |
| PD.3365-B                | PD.3365-A   | ABC | Closed             | 7.30Y     | 121.7        | 0.00            | 3.25          | 63.92        | 0        | 1326       | 450  | 95      | 0.00       | 0.0       | 3.164             | 0.082          | 0                 | 0 | 0          | 305          |
| PL.23866                 | PD.3365-B   | ABC | #3/0 ACSR          | 7.30Y     | 121.7        | 0.07            | 3.32          | 63.92        | 21       | 1326       | 450  | 95      | 0.55       | 0.0       | 3.244             | 0.080          | 6                 | 2 | 2          | 305          |
| PL.23491                 | PL.23866    | ABC | #3/0 ACSR          | 7.30Y     | 121.6        | 0.08            | 3.40          | 63.63        | 21       | 1320       | 448  | 95      | 0.66       | 0.1       | 3.342             | 0.098          | 8                 | 2 | 1          | 303          |
| PL.23675                 | PL.23491    | C   | 6 A (CWC)          | 7.30Y     | 121.6        | 0.00            | 3.40          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.347             | 0.005          | 0                 | 0 | 0          | 0            |
| PD.3267                  | PL.23675    | C   | 30T                | 7.30Y     | 121.6        | 0.00            | 3.40          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.347             | 0.005          | 0                 | 0 | 0          | 0            |
| PL.23676                 | PD.3267     | C   | 6 A (CWC)          | 7.30Y     | 121.6        | 0.00            | 3.40          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.378             | 0.031          | 0                 | 0 | 0          | 0            |
| PL.22850                 | PL.23676    | C   | #1/0 ACSR          | 7.30Y     | 121.6        | 0.00            | 3.40          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.443             | 0.065          | 0                 | 0 | 0          | 0            |
| PL.22851                 | PL.23676    | C   | 6 A (CWC)          | 7.30Y     | 121.6        | 0.00            | 3.40          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.458             | 0.081          | 0                 | 0 | 0          | 0            |
| PL.23435                 | PL.23491    | ABC | #3/0 ACSR          | 7.29Y     | 121.5        | 0.08            | 3.48          | 63.26        | 21       | 1311       | 445  | 95      | 0.68       | 0.1       | 3.443             | 0.101          | 5                 | 1 | 1          | 302          |
| PL.23492                 | PL.23435    | ABC | #3/0 ACSR          | 7.29Y     | 121.4        | 0.07            | 3.55          | 62.96        | 21       | 1304       | 442  | 95      | 0.54       | 0.0       | 3.524             | 0.081          | 5                 | 1 | 1          | 300          |
| PL.23493                 | PL.23492    | ABC | #3/0 ACSR          | 7.28Y     | 121.3        | 0.14            | 3.69          | 62.74        | 21       | 1299       | 440  | 95      | 1.10       | 0.1       | 3.691             | 0.167          | 0                 | 0 | 0          | 299          |
| PL.23518                 | PL.23493    | ABC | #3/0 ACSR          | 7.27Y     | 121.2        | 0.11            | 3.79          | 62.74        | 21       | 1298       | 438  | 95      | 0.85       | 0.1       | 3.820             | 0.129          | 14                | 4 | 3          | 299          |
| PL.23519                 | PL.23518    | ABC | #3/0 ACSR          | 7.27Y     | 121.1        | 0.09            | 3.88          | 62.09        | 21       | 1283       | 433  | 95      | 0.68       | 0.1       | 3.925             | 0.105          | 0                 | 0 | 0          | 296          |
| PL.23263                 | PL.23519    | ABC | #3/0 ACSR          | 7.26Y     | 121.0        | 0.09            | 3.97          | 62.09        | 21       | 1283       | 432  | 95      | 0.70       | 0.1       | 4.033             | 0.108          | 0                 | 0 | 0          | 296          |
| PL.23520                 | PL.23263    | ABC | #3/0 ACSR          | 7.26Y     | 121.0        | 0.06            | 4.03          | 62.09        | 21       | 1282       | 431  | 95      | 0.49       | 0.0       | 4.109             | 0.075          | 0                 | 0 | 1          | 296          |
| PL.23521                 | PL.23520    | ABC | #3/0 ACSR          | 7.25Y     | 120.9        | 0.07            | 4.10          | 62.08        | 21       | 1281       | 430  | 95      | 0.54       | 0.0       | 4.192             | 0.083          | 0                 | 0 | 0          | 295          |
| PL.23697                 | PL.23521    | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.10          | 0.35         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 4.197             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3278                  | PL.23697    | C   | 30T                | 7.25Y     | 120.9        | 0.00            | 4.10          | 0.35         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 4.197             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23698                 | PD.3278     | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.10          | 0.35         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 4.240             | 0.043          | 2                 | 1 | 1          | 1            |
| PL.23165                 | PL.23521    | ABC | #3/0 ACSR          | 7.25Y     | 120.8        | 0.08            | 4.18          | 61.96        | 21       | 1278       | 429  | 95      | 0.62       | 0.0       | 4.288             | 0.095          | 0                 | 0 | 0          | 294          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss                   | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |    | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |                              |           |                   |                |                   |    |            |              |
| PL.23264                 | PL.23165    | ABC | #3/0 ACSR          | 7.24Y     | 120.7        | 0.09            | 4.27          | 61.96        | 21       | 1278       | 428  | 95      | 0.75                         | 0.1       | 4.404             | 0.116          | 0                 | 0  | 0          | 294          |
| PL.23522                 | PL.23264    | ABC | #3/0 ACSR          | 7.24Y     | 120.6        | 0.08            | 4.35          | 61.96        | 21       | 1277       | 427  | 95      | 0.64                         | 0.0       | 4.503             | 0.099          | 3                 | 1  | 1          | 294          |
| PL.23523                 | PL.23522    | ABC | #3/0 ACSR          | 7.23Y     | 120.5        | 0.10            | 4.45          | 61.84        | 21       | 1274       | 425  | 95      | 0.78                         | 0.1       | 4.624             | 0.121          | 2                 | 1  | 3          | 293          |
| PL.22853                 | PL.23523    | ABC | #3/0 ACSR          | 7.23Y     | 120.5        | 0.07            | 4.52          | 59.69        | 20       | 1228       | 412  | 95      | 0.54                         | 0.0       | 4.714             | 0.091          | 0                 | 0  | 0          | 277          |
| PL.23267                 | PL.22853    | ABC | #3/0 ACSR          | 7.22Y     | 120.4        | 0.09            | 4.61          | 59.69        | 20       | 1228       | 411  | 95      | 0.67                         | 0.1       | 4.827             | 0.112          | 0                 | 0  | 0          | 277          |
| PL.23705                 | PL.23267    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.61          | 0.40         | 0        | 3          | 1    | 95      | 0.00                         | 0.0       | 4.831             | 0.005          | 0                 | 0  | 0          | 1            |
| PD.3282                  | PL.23705    | C   | 30T                | 7.22Y     | 120.4        | 0.00            | 4.61          | 0.40         | 0        | 3          | 1    | 95      | 0.00                         | 0.0       | 4.831             | 0.005          | 0                 | 0  | 0          | 1            |
| PL.23706                 | PD.3282     | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.61          | 0.40         | 0        | 3          | 1    | 95      | 0.00                         | 0.0       | 4.863             | 0.032          | 3                 | 1  | 1          | 1            |
| PL.24517                 | PL.23267    | ABC | #3/0 ACSR          | 7.22Y     | 120.4        | 0.01            | 4.62          | 59.56        | 20       | 1224       | 409  | 95      | 0.06                         | 0.0       | 4.836             | 0.010          | 0                 | 0  | 0          | 276          |
| PL.24518                 | PL.24517    | ABC | #3/0 ACSR          | 7.22Y     | 120.3        | 0.05            | 4.66          | 59.56        | 20       | 1224       | 409  | 95      | 0.36                         | 0.0       | 4.896             | 0.060          | 0                 | 0  | 0          | 276          |
| RG.28                    | PL.24518    | ABC | 76.2 KVA           | 7.45Y     | 124.2        | -3.88           | 0.78          | 59.56        | 60       | 1224       | 409  | 95      | percent Boost= 3.12 Tap= 5.0 |           |                   |                |                   |    | 276        |              |
| PL.23528                 | RG.28       | ABC | #3/0 ACSR          | 7.45Y     | 124.1        | 0.08            | 0.86          | 57.70        | 19       | 1224       | 409  | 95      | 0.56                         | 0.0       | 4.997             | 0.101          | 2                 | 0  | 1          | 276          |
| PL.23529                 | PL.23528    | ABC | #3/0 ACSR          | 7.44Y     | 124.1        | 0.08            | 0.94          | 57.62        | 19       | 1221       | 407  | 95      | 0.62                         | 0.1       | 5.109             | 0.112          | 0                 | 0  | 0          | 275          |
| PL.22857                 | PL.23529    | ABC | 6 A (CWC)          | 7.44Y     | 124.1        | 0.00            | 0.95          | 1.73         | 1        | 36         | 15   | 92      | 0.00                         | 0.0       | 5.138             | 0.029          | 3                 | 1  | 1          | 3            |
| PL.23861                 | PL.22857    | ABC | 6 A (CWC)          | 7.44Y     | 124.1        | 0.00            | 0.95          | 1.58         | 1        | 32         | 14   | 92      | 0.00                         | 0.0       | 5.142             | 0.005          | 0                 | 0  | 0          | 2            |
| PD.3362                  | PL.23861    | ABC | 30T                | 7.44Y     | 124.1        | 0.00            | 0.95          | 1.58         | 0        | 32         | 14   | 92      | 0.00                         | 0.0       | 5.142             | 0.005          | 0                 | 0  | 0          | 2            |
| PL.23862                 | PD.3362     | ABC | 6 A (CWC)          | 7.44Y     | 124.1        | 0.00            | 0.95          | 1.58         | 1        | 32         | 14   | 92      | 0.00                         | 0.0       | 5.211             | 0.069          | 7                 | 2  | 1          | 2            |
| PL.23527                 | PL.23862    | ABC | 6 A (CWC)          | 7.44Y     | 124.0        | 0.00            | 0.95          | 1.27         | 1        | 26         | 12   | 91      | 0.00                         | 0.0       | 5.293             | 0.082          | 0                 | 0  | 0          | 1            |
| PL.22972                 | PL.23527    | ABC | #4 ACSR            | 7.44Y     | 124.0        | 0.01            | 0.96          | 1.27         | 1        | 26         | 12   | 91      | 0.00                         | 0.0       | 5.405             | 0.112          | 0                 | 0  | 0          | 1            |
| PL.23268                 | PL.22972    | ABC | #4 ACSR            | 7.44Y     | 124.0        | 0.01            | 0.96          | 1.27         | 1        | 26         | 12   | 91      | 0.00                         | 0.0       | 5.524             | 0.119          | 0                 | 0  | 0          | 1            |
| PL.23269                 | PL.23268    | ABC | #4 ACSR            | 7.44Y     | 124.0        | 0.01            | 0.97          | 1.27         | 1        | 26         | 12   | 91      | 0.00                         | 0.0       | 5.649             | 0.125          | 0                 | 0  | 0          | 1            |
| PL.23270                 | PL.23269    | ABC | #4 ACSR            | 7.44Y     | 124.0        | 0.00            | 0.98          | 1.27         | 1        | 26         | 12   | 91      | 0.00                         | 0.0       | 5.750             | 0.101          | 0                 | 0  | 0          | 1            |
| PL.23272                 | PL.23270    | ABC | #4 ACSR            | 7.44Y     | 124.0        | 0.01            | 0.98          | 1.27         | 1        | 26         | 12   | 91      | 0.00                         | 0.0       | 5.857             | 0.107          | 0                 | 0  | 0          | 1            |
| PL.23271                 | PL.23272    | ABC | #4 ACSR            | 7.44Y     | 124.0        | 0.00            | 0.98          | 1.27         | 1        | 26         | 12   | 91      | 0.00                         | 0.0       | 5.928             | 0.071          | 26                | 12 | 1          | 1            |
| PL.22858                 | PL.23529    | ABC | #1/0 ACSR          | 7.43Y     | 123.9        | 0.15            | 1.09          | 55.89        | 24       | 1185       | 391  | 95      | 1.20                         | 0.1       | 5.253             | 0.144          | 0                 | 0  | 0          | 272          |
| PL.23197                 | PL.22858    | ABC | #1/0 ACSR          | 7.43Y     | 123.8        | 0.12            | 1.22          | 55.89        | 24       | 1184       | 390  | 95      | 1.01                         | 0.1       | 5.374             | 0.121          | 0                 | 0  | 0          | 272          |
| PL.23273                 | PL.23197    | ABC | #1/0 ACSR          | 7.42Y     | 123.6        | 0.14            | 1.36          | 55.89        | 24       | 1183       | 389  | 95      | 1.14                         | 0.1       | 5.511             | 0.137          | 0                 | 0  | 0          | 272          |
| PL.23526                 | PL.23273    | ABC | #1/0 ACSR          | 7.41Y     | 123.5        | 0.16            | 1.52          | 55.89        | 24       | 1182       | 388  | 95      | 1.30                         | 0.1       | 5.666             | 0.156          | 0                 | 0  | 1          | 272          |
| PL.23889                 | PL.23526    | ABC | #1/0 ACSR          | 7.41Y     | 123.4        | 0.06            | 1.58          | 55.88        | 24       | 1180       | 387  | 95      | 0.48                         | 0.0       | 5.724             | 0.058          | 0                 | 0  | 0          | 271          |
| PL.23890                 | PL.23889    | ABC | #1/0 ACSR          | 7.40Y     | 123.3        | 0.11            | 1.69          | 55.88        | 24       | 1180       | 386  | 95      | 0.86                         | 0.1       | 5.828             | 0.103          | 3                 | 1  | 1          | 271          |
| PL.23833                 | PL.23890    | A   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.69          | 0.59         | 0        | 4          | 1    | 97      | 0.00                         | 0.0       | 5.833             | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |    | Cons<br>On | Cons<br>Thru |
| PD.3348                  | PL.23833    | A   | 30T                | 7.40Y     | 123.3        | 0.00            | 1.69          | 0.59         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 5.833             | 0.005          | 0                 | 0  | 0          | 1            |
| PL.23834                 | PD.3348     | A   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.69          | 0.59         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 5.898             | 0.065          | 4                 | 1  | 1          | 1            |
| PL.23509                 | PL.23890    | ABC | #1/0 ACSR          | 7.39Y     | 123.2        | 0.08            | 1.76          | 55.23        | 24       | 1165       | 381  | 95      | 0.62       | 0.1       | 5.905             | 0.077          | 9                 | 2  | 5          | 268          |
| PL.23510                 | PL.23509    | ABC | #1/0 ACSR          | 7.39Y     | 123.2        | 0.03            | 1.79          | 54.83        | 24       | 1156       | 378  | 95      | 0.23       | 0.0       | 5.934             | 0.029          | 0                 | 0  | 0          | 263          |
| PL.22859                 | PL.23510    | ABC | #1/0 ACSR          | 7.39Y     | 123.1        | 0.08            | 1.87          | 33.64        | 15       | 703        | 249  | 94      | 0.39       | 0.1       | 6.062             | 0.128          | 0                 | 0  | 0          | 135          |
| PL.23286                 | PL.22859    | ABC | #1/0 ACSR          | 7.38Y     | 123.0        | 0.08            | 1.96          | 33.64        | 15       | 703        | 248  | 94      | 0.39       | 0.1       | 6.193             | 0.131          | 0                 | 0  | 0          | 135          |
| PL.23180                 | PL.23286    | ABC | #1/0 ACSR          | 7.38Y     | 122.9        | 0.11            | 2.06          | 33.64        | 15       | 702        | 248  | 94      | 0.50       | 0.1       | 6.361             | 0.168          | 0                 | 0  | 0          | 135          |
| PL.23885                 | PL.23180    | ABC | #1/0 ACSR          | 7.38Y     | 122.9        | 0.01            | 2.07          | 33.64        | 15       | 702        | 248  | 94      | 0.04       | 0.0       | 6.373             | 0.013          | 0                 | 0  | 0          | 135          |
| PD.3375                  | PL.23885    | ABC | 50L                | 7.38Y     | 122.9        | 0.00            | 2.07          | 33.64        | 67       | 702        | 247  | 94      | 0.00       | 0.0       | 6.373             | 0.013          | 0                 | 0  | 0          | 135          |
| PL.23886                 | PD.3375     | ABC | #1/0 ACSR          | 7.37Y     | 122.9        | 0.02            | 2.09          | 33.64        | 15       | 702        | 247  | 94      | 0.11       | 0.0       | 6.410             | 0.036          | 0                 | 0  | 0          | 135          |
| PL.23419                 | PL.23886    | ABC | #1/0 ACSR          | 7.37Y     | 122.9        | 0.01            | 2.10          | 32.86        | 14       | 686        | 240  | 94      | 0.05       | 0.0       | 6.427             | 0.018          | 0                 | 0  | 0          | 133          |
| PL.23853                 | PL.23419    | ABC | #4 ACSR            | 7.37Y     | 122.9        | 0.00            | 2.10          | 2.90         | 2        | 58         | 27   | 91      | 0.00       | 0.0       | 6.432             | 0.005          | 0                 | 0  | 0          | 2            |
| PD.3358                  | PL.23853    | ABC | 20T                | 7.37Y     | 122.9        | 0.00            | 2.10          | 2.90         | 0        | 58         | 27   | 91      | 0.00       | 0.0       | 6.432             | 0.005          | 0                 | 0  | 0          | 2            |
| PL.23854                 | PD.3358     | ABC | #4 ACSR            | 7.37Y     | 122.9        | 0.01            | 2.11          | 2.90         | 2        | 58         | 27   | 91      | 0.00       | 0.0       | 6.482             | 0.050          | 0                 | 0  | 0          | 2            |
| PL.23855                 | PL.23854    | ABC | #4 ACSR            | 7.37Y     | 122.9        | 0.00            | 2.11          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.487             | 0.005          | 0                 | 0  | 0          | 0            |
| PL.23511                 | PL.23854    | ABC | #4 ACSR            | 7.37Y     | 122.9        | 0.00            | 2.11          | 2.90         | 2        | 58         | 27   | 91      | 0.00       | 0.0       | 6.506             | 0.024          | 6                 | 2  | 1          | 2            |
| PL.23512                 | PL.23511    | ABC | #4 ACSR            | 7.37Y     | 122.9        | 0.02            | 2.13          | 2.62         | 2        | 52         | 25   | 90      | 0.01       | 0.0       | 6.692             | 0.186          | 0                 | 0  | 0          | 1            |
| PL.23183                 | PL.23512    | ABC | #4 ACSR            | 7.37Y     | 122.9        | 0.01            | 2.14          | 2.62         | 2        | 52         | 25   | 90      | 0.00       | 0.0       | 6.781             | 0.089          | 0                 | 0  | 0          | 1            |
| PL.22975                 | PL.23183    | ABC | #4 ACSR            | 7.37Y     | 122.9        | 0.00            | 2.14          | 2.62         | 2        | 52         | 25   | 90      | 0.00       | 0.0       | 6.783             | 0.002          | 52                | 25 | 1          | 1            |
| PL.22974                 | PL.23512    | C   | #4 ACSR            | 7.37Y     | 122.9        | 0.00            | 2.13          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.807             | 0.115          | 0                 | 0  | 0          | 0            |
| PL.23182                 | PL.23419    | ABC | #1/0 ACSR          | 7.37Y     | 122.8        | 0.07            | 2.17          | 29.98        | 13       | 628        | 213  | 95      | 0.29       | 0.0       | 6.550             | 0.123          | 2                 | 1  | 1          | 131          |
| PL.22976                 | PL.23182    | ABC | 6 A (CWC)          | 7.37Y     | 122.8        | 0.01            | 2.18          | 9.19         | 7        | 183        | 87   | 90      | 0.02       | 0.0       | 6.577             | 0.027          | 0                 | 0  | 0          | 6            |
| PL.23290                 | PL.22976    | ABC | 6 A (CWC)          | 7.36Y     | 122.7        | 0.08            | 2.26          | 9.19         | 7        | 183        | 87   | 90      | 0.12       | 0.1       | 6.797             | 0.219          | 0                 | 0  | 0          | 6            |
| PL.22977                 | PL.23290    | ABC | 6 A (CWC)          | 7.36Y     | 122.7        | 0.00            | 2.26          | 0.15         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.854             | 0.057          | 0                 | 0  | 0          | 1            |
| PL.23857                 | PL.22977    | ABC | #4 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.26          | 0.15         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.884             | 0.030          | 0                 | 0  | 0          | 1            |
| PD.3360                  | PL.23857    | ABC | 20T                | 7.36Y     | 122.7        | 0.00            | 2.26          | 0.15         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.884             | 0.030          | 0                 | 0  | 0          | 1            |
| PL.23858                 | PD.3360     | ABC | #4 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.26          | 0.15         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.898             | 0.014          | 3                 | 1  | 1          | 1            |
| PL.23504                 | PL.23858    | ABC | #4 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.26          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.037             | 0.140          | 0                 | 0  | 0          | 0            |
| PL.23643                 | PL.23290    | ABC | 6 A (CWC)          | 7.36Y     | 122.7        | 0.02            | 2.28          | 9.04         | 6        | 180        | 87   | 90      | 0.03       | 0.0       | 6.855             | 0.058          | 0                 | 0  | 0          | 5            |
| PL.23644                 | PL.23643    | ABC | 6 A (CWC)          | 7.36Y     | 122.7        | 0.00            | 2.29          | 9.04         | 6        | 180        | 86   | 90      | 0.01       | 0.0       | 6.870             | 0.015          | 32                | 16 | 1          | 5            |
| PL.23505                 | PL.23644    | ABC | 6 A (CWC)          | 7.36Y     | 122.7        | 0.02            | 2.31          | 7.41         | 5        | 148        | 71   | 90      | 0.03       | 0.0       | 6.945             | 0.075          | 2                 | 0  | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |    | Cons<br>On | Cons<br>Thru |
| PL.23506                 | PL.23505    | ABC | 6 A (CWC)          | 7.36Y     | 122.7        | 0.03            | 2.34          | 7.34         | 5        | 146        | 70   | 90      | 0.03       | 0.0       | 7.042             | 0.097          | 0                 | 0  | 0          | 3            |
| PL.23291                 | PL.23506    | ABC | 6 A (CWC)          | 7.36Y     | 122.6        | 0.03            | 2.37          | 7.34         | 5        | 146        | 70   | 90      | 0.04       | 0.0       | 7.162             | 0.120          | 0                 | 0  | 0          | 3            |
| PL.23507                 | PL.23291    | ABC | 6 A (CWC)          | 7.36Y     | 122.6        | 0.01            | 2.38          | 7.34         | 5        | 146        | 70   | 90      | 0.02       | 0.0       | 7.208             | 0.047          | 0                 | 0  | 0          | 3            |
| PL.23508                 | PL.23507    | ABC | 6 A (CWC)          | 7.36Y     | 122.6        | 0.02            | 2.40          | 7.34         | 5        | 146        | 70   | 90      | 0.02       | 0.0       | 7.275             | 0.067          | 0                 | 0  | 0          | 3            |
| PL.22978                 | PL.23508    | ABC | 6 A (CWC)          | 7.36Y     | 122.6        | 0.01            | 2.42          | 7.34         | 5        | 146        | 70   | 90      | 0.02       | 0.0       | 7.320             | 0.045          | 0                 | 0  | 0          | 3            |
| PL.23184                 | PL.22978    | ABC | 6 A (CWC)          | 7.35Y     | 122.6        | 0.03            | 2.44          | 4.25         | 3        | 85         | 41   | 90      | 0.02       | 0.0       | 7.481             | 0.160          | 0                 | 0  | 0          | 2            |
| PL.23294                 | PL.23184    | ABC | 6 A (CWC)          | 7.35Y     | 122.5        | 0.02            | 2.47          | 4.25         | 3        | 85         | 41   | 90      | 0.02       | 0.0       | 7.615             | 0.135          | 0                 | 0  | 0          | 2            |
| PL.23306                 | PL.23294    | ABC | 6 A (CWC)          | 7.35Y     | 122.5        | 0.01            | 2.48          | 4.25         | 3        | 85         | 41   | 90      | 0.01       | 0.0       | 7.676             | 0.061          | 0                 | 0  | 0          | 2            |
| PL.23295                 | PL.23306    | ABC | 6 A (CWC)          | 7.35Y     | 122.5        | 0.02            | 2.49          | 4.25         | 3        | 84         | 41   | 90      | 0.01       | 0.0       | 7.769             | 0.092          | 0                 | 0  | 0          | 2            |
| PL.25728                 | PL.23295    | ABC | 6 A (CWC)          | 7.35Y     | 122.5        | 0.00            | 2.49          | 4.25         | 3        | 84         | 41   | 90      | 0.00       | 0.0       | 7.797             | 0.028          | 83                | 40 | 1          | 2            |
| PL.25729                 | PL.25728    | ABC | 6 A (CWC)          | 7.35Y     | 122.5        | 0.00            | 2.49          | 0.08         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.902             | 0.105          | 2                 | 1  | 1          | 1            |
| PL.22979                 | PL.22978    | ABC | #4 ACSR            | 7.35Y     | 122.6        | 0.01            | 2.42          | 3.09         | 2        | 61         | 30   | 90      | 0.00       | 0.0       | 7.385             | 0.064          | 0                 | 0  | 0          | 1            |
| PL.22980                 | PL.22979    | ABC | #1/0 ACSR          | 7.35Y     | 122.6        | 0.01            | 2.43          | 3.09         | 1        | 61         | 30   | 90      | 0.00       | 0.0       | 7.482             | 0.098          | 0                 | 0  | 0          | 1            |
| PL.23292                 | PL.22980    | ABC | #1/0 ACSR          | 7.35Y     | 122.6        | 0.01            | 2.44          | 3.09         | 1        | 61         | 30   | 90      | 0.00       | 0.0       | 7.609             | 0.127          | 0                 | 0  | 0          | 1            |
| PL.23293                 | PL.23292    | ABC | #1/0 ACSR          | 7.35Y     | 122.6        | 0.00            | 2.44          | 3.09         | 1        | 61         | 30   | 90      | 0.00       | 0.0       | 7.656             | 0.047          | 0                 | 0  | 0          | 1            |
| PL.22981                 | PL.23293    | ABC | #1/0 ACSR          | 7.35Y     | 122.6        | 0.00            | 2.44          | 3.09         | 1        | 61         | 30   | 90      | 0.00       | 0.0       | 7.816             | 0.160          | 61                | 30 | 1          | 1            |
| PL.23415                 | PL.23182    | ABC | #1/0 ACSR          | 7.37Y     | 122.8        | 0.04            | 2.21          | 20.77        | 9        | 442        | 124  | 96      | 0.12       | 0.0       | 6.653             | 0.103          | 1                 | 0  | 1          | 124          |
| PL.23687                 | PL.23415    | A   | #4 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.21          | 0.72         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 6.658             | 0.005          | 0                 | 0  | 0          | 1            |
| PD.3273                  | PL.23687    | A   | 20T                | 7.37Y     | 122.8        | 0.00            | 2.21          | 0.72         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 6.658             | 0.005          | 0                 | 0  | 0          | 1            |
| PL.23688                 | PD.3273     | A   | #4 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.21          | 0.72         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 6.682             | 0.025          | 5                 | 1  | 1          | 1            |
| PL.23416                 | PL.23415    | ABC | #1/0 ACSR          | 7.37Y     | 122.8        | 0.03            | 2.24          | 20.51        | 9        | 436        | 123  | 96      | 0.08       | 0.0       | 6.727             | 0.074          | 2                 | 1  | 1          | 122          |
| PL.23413                 | PL.23416    | ABC | #1/0 ACSR          | 7.36Y     | 122.7        | 0.02            | 2.26          | 20.04        | 9        | 426        | 120  | 96      | 0.07       | 0.0       | 6.792             | 0.065          | 12                | 3  | 3          | 120          |
| PL.23414                 | PL.23413    | ABC | #1/0 ACSR          | 7.36Y     | 122.7        | 0.04            | 2.30          | 19.17        | 8        | 408        | 115  | 96      | 0.10       | 0.0       | 6.898             | 0.106          | 6                 | 2  | 3          | 115          |
| PL.23695                 | PL.23414    | A   | #1/0 ACSR          | 7.36Y     | 122.7        | 0.00            | 2.30          | 0.16         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.903             | 0.005          | 0                 | 0  | 0          | 1            |
| PD.3277                  | PL.23695    | A   | 20T                | 7.36Y     | 122.7        | 0.00            | 2.30          | 0.16         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.903             | 0.005          | 0                 | 0  | 0          | 1            |
| PL.23696                 | PD.3277     | A   | #1/0 ACSR          | 7.36Y     | 122.7        | 0.00            | 2.30          | 0.16         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.967             | 0.064          | 1                 | 0  | 1          | 1            |
| PL.23513                 | PL.23414    | ABC | #1/0 ACSR          | 7.36Y     | 122.7        | 0.02            | 2.32          | 18.85        | 8        | 401        | 113  | 96      | 0.06       | 0.0       | 6.963             | 0.065          | 0                 | 0  | 1          | 111          |
| PL.23514                 | PL.23513    | ABC | #1/0 ACSR          | 7.36Y     | 122.7        | 0.02            | 2.33          | 18.84        | 8        | 401        | 112  | 96      | 0.04       | 0.0       | 7.009             | 0.046          | 2                 | 1  | 1          | 110          |
| PL.23515                 | PL.23514    | ABC | #1/0 ACSR          | 7.36Y     | 122.6        | 0.02            | 2.36          | 18.72        | 8        | 398        | 112  | 96      | 0.06       | 0.0       | 7.079             | 0.069          | 0                 | 0  | 0          | 109          |
| PL.23869                 | PL.23515    | B   | #4 ACSR            | 7.36Y     | 122.6        | 0.02            | 2.37          | 11.02        | 8        | 78         | 22   | 96      | 0.01       | 0.0       | 7.112             | 0.033          | 0                 | 0  | 0          | 25           |
| PD.3367                  | PL.23869    | B   | 35L                | 7.36Y     | 122.6        | 0.00            | 2.37          | 11.02        | 31       | 78         | 22   | 96      | 0.00       | 0.0       | 7.112             | 0.033          | 0                 | 0  | 0          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.23870                 | PD.3367     | B   | #4 ACSR            | 7.35Y     | 122.5        | 0.08            | 2.46          | 11.02        | 8        | 78         | 22   | 96      | 0.05       | 0.1       | 7.281             | 0.169          | 0                 | 0 | 0          | 25           |
| PL.22982                 | PL.23870    | B   | #4 ACSR            | 7.35Y     | 122.5        | 0.02            | 2.48          | 11.02        | 8        | 78         | 22   | 96      | 0.01       | 0.0       | 7.322             | 0.041          | 0                 | 0 | 0          | 25           |
| PL.23185                 | PL.22982    | B   | #4 ACSR            | 7.35Y     | 122.5        | 0.03            | 2.51          | 10.73        | 8        | 76         | 21   | 96      | 0.02       | 0.0       | 7.395             | 0.073          | 0                 | 0 | 0          | 24           |
| PL.22984                 | PL.23185    | B   | #4 ACSR            | 7.35Y     | 122.5        | 0.00            | 2.51          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.412             | 0.017          | 0                 | 0 | 0          | 0            |
| PL.23532                 | PL.23185    | B   | #4 ACSR            | 7.35Y     | 122.4        | 0.04            | 2.55          | 10.73        | 8        | 76         | 21   | 96      | 0.02       | 0.0       | 7.473             | 0.078          | 0                 | 0 | 1          | 24           |
| PL.23533                 | PL.23532    | B   | #4 ACSR            | 7.34Y     | 122.4        | 0.08            | 2.63          | 10.72        | 8        | 76         | 21   | 96      | 0.05       | 0.1       | 7.655             | 0.182          | 4                 | 1 | 1          | 23           |
| PL.23410                 | PL.23533    | B   | #4 ACSR            | 7.34Y     | 122.3        | 0.06            | 2.70          | 8.93         | 7        | 63         | 17   | 97      | 0.03       | 0.0       | 7.816             | 0.161          | 0                 | 0 | 0          | 20           |
| PL.23530                 | PL.23410    | B   | #4 ACSR            | 7.34Y     | 122.3        | 0.02            | 2.72          | 8.93         | 7        | 63         | 17   | 97      | 0.01       | 0.0       | 7.875             | 0.059          | 7                 | 2 | 2          | 19           |
| PL.23531                 | PL.23530    | B   | #4 ACSR            | 7.33Y     | 122.2        | 0.04            | 2.77          | 7.95         | 6        | 56         | 15   | 97      | 0.02       | 0.0       | 7.999             | 0.124          | 0                 | 0 | 0          | 17           |
| PL.22986                 | PL.23531    | B   | #4 ACSR            | 7.33Y     | 122.2        | 0.03            | 2.79          | 7.95         | 6        | 56         | 15   | 97      | 0.01       | 0.0       | 8.077             | 0.078          | 0                 | 0 | 0          | 17           |
| PL.23186                 | PL.22986    | B   | #4 ACSR            | 7.33Y     | 122.2        | 0.05            | 2.84          | 7.69         | 6        | 54         | 15   | 96      | 0.02       | 0.0       | 8.213             | 0.136          | 0                 | 0 | 0          | 16           |
| PL.21838                 | PL.23186    | B   | #4 ACSR            | 7.33Y     | 122.1        | 0.04            | 2.88          | 7.69         | 6        | 54         | 15   | 96      | 0.01       | 0.0       | 8.318             | 0.105          | 0                 | 0 | 0          | 16           |
| PL.21837                 | PL.21838    | B   | #4 ACSR            | 7.32Y     | 122.1        | 0.05            | 2.92          | 7.69         | 6        | 54         | 15   | 96      | 0.02       | 0.0       | 8.458             | 0.140          | 0                 | 0 | 1          | 16           |
| PL.22988                 | PL.21837    | B   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.36         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.485             | 0.027          | 3                 | 1 | 1          | 1            |
| PL.22989                 | PL.21837    | B   | #4 ACSR            | 7.32Y     | 122.0        | 0.03            | 2.95          | 7.33         | 6        | 52         | 14   | 97      | 0.01       | 0.0       | 8.545             | 0.088          | 0                 | 0 | 0          | 14           |
| PL.21839                 | PL.22989    | B   | #4 ACSR            | 7.32Y     | 122.0        | 0.06            | 3.01          | 7.33         | 6        | 52         | 14   | 97      | 0.02       | 0.0       | 8.730             | 0.184          | 0                 | 0 | 0          | 14           |
| PL.23187                 | PL.21839    | B   | #4 ACSR            | 7.32Y     | 121.9        | 0.05            | 3.06          | 7.31         | 6        | 52         | 14   | 97      | 0.02       | 0.0       | 8.873             | 0.144          | 0                 | 0 | 0          | 13           |
| PL.21825                 | PL.23187    | B   | #4 ACSR            | 7.32Y     | 121.9        | 0.02            | 3.08          | 5.29         | 4        | 37         | 11   | 96      | 0.01       | 0.0       | 8.973             | 0.099          | 0                 | 0 | 0          | 11           |
| PL.21841                 | PL.21825    | B   | #4 ACSR            | 7.31Y     | 121.9        | 0.04            | 3.13          | 5.29         | 4        | 37         | 11   | 96      | 0.01       | 0.0       | 9.159             | 0.186          | 0                 | 0 | 0          | 11           |
| PL.21842                 | PL.21841    | B   | #4 ACSR            | 7.31Y     | 121.9        | 0.02            | 3.15          | 5.29         | 4        | 37         | 11   | 96      | 0.01       | 0.0       | 9.257             | 0.098          | 0                 | 0 | 0          | 11           |
| PL.23307                 | PL.21842    | B   | #4 ACSR            | 7.31Y     | 121.8        | 0.02            | 3.17          | 5.29         | 4        | 37         | 11   | 96      | 0.01       | 0.0       | 9.356             | 0.099          | 1                 | 0 | 1          | 11           |
| PL.21827                 | PL.23307    | B   | #4 ACSR            | 7.31Y     | 121.8        | 0.03            | 3.20          | 5.21         | 4        | 37         | 10   | 97      | 0.01       | 0.0       | 9.477             | 0.122          | 0                 | 0 | 0          | 10           |
| PL.21843                 | PL.21827    | B   | #4 ACSR            | 7.31Y     | 121.8        | 0.03            | 3.23          | 5.21         | 4        | 37         | 10   | 97      | 0.01       | 0.0       | 9.586             | 0.109          | 0                 | 0 | 0          | 10           |
| PL.23679                 | PL.21843    | B   | #4 ACSR            | 7.31Y     | 121.8        | 0.00            | 3.23          | 5.21         | 4        | 37         | 10   | 97      | 0.00       | 0.0       | 9.591             | 0.005          | 0                 | 0 | 0          | 10           |
| PD.3269                  | PL.23679    | B   | 15T                | 7.31Y     | 121.8        | 0.00            | 3.23          | 5.21         | 0        | 37         | 10   | 97      | 0.00       | 0.0       | 9.591             | 0.005          | 0                 | 0 | 0          | 10           |
| PL.23680                 | PD.3269     | B   | #4 ACSR            | 7.30Y     | 121.7        | 0.03            | 3.25          | 5.21         | 4        | 37         | 10   | 97      | 0.01       | 0.0       | 9.710             | 0.119          | 0                 | 0 | 0          | 10           |
| PL.21844                 | PL.23680    | B   | #4 ACSR            | 7.30Y     | 121.7        | 0.04            | 3.29          | 5.21         | 4        | 37         | 10   | 97      | 0.01       | 0.0       | 9.870             | 0.160          | 0                 | 0 | 0          | 10           |
| PL.21845                 | PL.21844    | B   | #4 ACSR            | 7.30Y     | 121.7        | 0.04            | 3.33          | 5.21         | 4        | 37         | 10   | 97      | 0.01       | 0.0       | 10.024            | 0.154          | 0                 | 0 | 0          | 10           |
| PL.23496                 | PL.21845    | B   | #4 ACSR            | 7.30Y     | 121.6        | 0.04            | 3.36          | 5.21         | 4        | 37         | 10   | 97      | 0.01       | 0.0       | 10.194            | 0.170          | 7                 | 2 | 2          | 10           |
| PL.23497                 | PL.23496    | B   | #4 ACSR            | 7.30Y     | 121.6        | 0.03            | 3.40          | 4.19         | 3        | 29         | 8    | 96      | 0.01       | 0.0       | 10.363            | 0.169          | 0                 | 0 | 0          | 8            |
| PL.21828                 | PL.23497    | B   | #1/0 ACSR          | 7.30Y     | 121.6        | 0.00            | 3.40          | 1.07         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 10.390            | 0.026          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.23188                 | PL.23497    | B   | #4 ACSR            | 7.29Y     | 121.6        | 0.02            | 3.42          | 3.11         | 2        | 22         | 6    | 96      | 0.00       | 0.0       | 10.533            | 0.169          | 0                 | 0 | 1          | 7            |
| PL.23494                 | PL.23188    | B   | #4 ACSR            | 7.29Y     | 121.6        | 0.00            | 3.42          | 3.11         | 2        | 22         | 6    | 96      | 0.00       | 0.0       | 10.572            | 0.040          | 7                 | 2 | 3          | 6            |
| PL.23495                 | PL.23494    | B   | #4 ACSR            | 7.29Y     | 121.6        | 0.00            | 3.43          | 2.09         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 10.593            | 0.021          | 0                 | 0 | 0          | 3            |
| PL.21829                 | PL.23495    | B   | #4 ACSR            | 7.29Y     | 121.6        | 0.00            | 3.43          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.710            | 0.118          | 0                 | 0 | 0          | 0            |
| PL.23189                 | PL.23495    | B   | #4 ACSR            | 7.29Y     | 121.6        | 0.01            | 3.44          | 2.09         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 10.761            | 0.168          | 3                 | 1 | 1          | 3            |
| PL.21830                 | PL.23189    | B   | #4 ACSR            | 7.29Y     | 121.6        | 0.00            | 3.44          | 1.63         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 10.891            | 0.129          | 11                | 3 | 2          | 2            |
| PL.21826                 | PL.23187    | B   | #1/0 ACSR          | 7.32Y     | 121.9        | 0.00            | 3.06          | 2.02         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 8.981             | 0.107          | 0                 | 0 | 0          | 2            |
| PL.21840                 | PL.21826    | B   | #1/0 ACSR          | 7.32Y     | 121.9        | 0.00            | 3.07          | 2.02         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 9.082             | 0.101          | 0                 | 0 | 0          | 2            |
| PL.23681                 | PL.21840    | B   | 1/0 AL URD         | 7.32Y     | 121.9        | 0.00            | 3.07          | 2.02         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 9.086             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3270                  | PL.23681    | B   | 15T                | 7.32Y     | 121.9        | 0.00            | 3.07          | 2.02         | 0        | 14         | 4    | 96      | 0.00       | 0.0       | 9.086             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.23682                 | PD.3270     | B   | 1/0 AL URD         | 7.32Y     | 121.9        | 0.00            | 3.07          | 2.02         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 9.219             | 0.133          | 14                | 4 | 2          | 2            |
| PL.21824                 | PL.23187    | B   | #4 ACSR            | 7.32Y     | 121.9        | 0.00            | 3.06          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.931             | 0.057          | 0                 | 0 | 0          | 0            |
| PL.22990                 | PL.21839    | B   | #4 ACSR            | 7.32Y     | 122.0        | 0.00            | 3.01          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.788             | 0.058          | 0                 | 0 | 1          | 1            |
| PL.22987                 | PL.22986    | B   | #4 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.79          | 0.25         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.215             | 0.137          | 2                 | 1 | 1          | 1            |
| PL.23711                 | PL.23410    | B   | #1/0 ACSR          | 7.34Y     | 122.3        | 0.00            | 2.70          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.820             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3285                  | PL.23711    | B   | 15T                | 7.34Y     | 122.3        | 0.00            | 2.70          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.820             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.23712                 | PD.3285     | B   | #1/0 ACSR          | 7.34Y     | 122.3        | 0.00            | 2.70          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.954             | 0.134          | 0                 | 0 | 0          | 1            |
| PL.23296                 | PL.23712    | B   | #1/0 ACSR          | 7.34Y     | 122.3        | 0.00            | 2.70          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.128             | 0.174          | 0                 | 0 | 0          | 1            |
| PL.23297                 | PL.23296    | B   | #1/0 ACSR          | 7.34Y     | 122.3        | 0.00            | 2.70          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.245             | 0.117          | 0                 | 0 | 1          | 1            |
| PL.22985                 | PL.23533    | B   | #4 ACSR            | 7.34Y     | 122.4        | 0.00            | 2.64          | 1.26         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 7.692             | 0.037          | 9                 | 3 | 2          | 2            |
| PL.22983                 | PL.22982    | B   | #4 ACSR            | 7.35Y     | 122.5        | 0.00            | 2.48          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.410             | 0.088          | 2                 | 1 | 1          | 1            |
| PL.23516                 | PL.23515    | ABC | #1/0 ACSR          | 7.36Y     | 122.6        | 0.04            | 2.40          | 15.05        | 7        | 320        | 90   | 96      | 0.09       | 0.0       | 7.225             | 0.146          | 1                 | 0 | 2          | 84           |
| PL.23517                 | PL.23516    | ABC | #1/0 ACSR          | 7.35Y     | 122.6        | 0.03            | 2.43          | 15.00        | 7        | 319        | 90   | 96      | 0.07       | 0.0       | 7.336             | 0.111          | 0                 | 0 | 0          | 82           |
| PL.21835                 | PL.23517    | ABC | #1/0 ACSR          | 7.35Y     | 122.5        | 0.03            | 2.46          | 15.00        | 7        | 319        | 90   | 96      | 0.06       | 0.0       | 7.436             | 0.100          | 0                 | 0 | 0          | 82           |
| PL.21846                 | PL.21835    | ABC | #1/0 ACSR          | 7.35Y     | 122.5        | 0.03            | 2.49          | 15.00        | 7        | 318        | 89   | 96      | 0.07       | 0.0       | 7.550             | 0.114          | 0                 | 0 | 0          | 82           |
| PL.23407                 | PL.21846    | ABC | #1/0 ACSR          | 7.35Y     | 122.5        | 0.04            | 2.52          | 15.00        | 7        | 318        | 89   | 96      | 0.08       | 0.0       | 7.691             | 0.141          | 9                 | 3 | 1          | 82           |
| PL.23713                 | PL.23407    | A   | #1/0 ACSR          | 7.35Y     | 122.5        | 0.00            | 2.52          | 0.82         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 7.696             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3286                  | PL.23713    | A   | 20T                | 7.35Y     | 122.5        | 0.00            | 2.52          | 0.82         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 7.696             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23714                 | PD.3286     | A   | #1/0 ACSR          | 7.35Y     | 122.5        | 0.00            | 2.53          | 0.82         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 7.884             | 0.188          | 6                 | 2 | 1          | 1            |
| PL.23408                 | PL.23407    | ABC | #1/0 ACSR          | 7.35Y     | 122.4        | 0.03            | 2.55          | 14.30        | 6        | 304        | 85   | 96      | 0.06       | 0.0       | 7.793             | 0.102          | 0                 | 0 | 0          | 80           |
| PL.23717                 | PL.23408    | C   | #4 ACSR            | 7.35Y     | 122.4        | 0.00            | 2.55          | 3.20         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 7.797             | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PD.3288                  | PL.23717    | C   | 20T                | 7.35Y     | 122.4        | 0.00            | 2.55          | 3.20         | 0        | 23         | 6    | 97      | 0.00       | 0.0       | 7.797             | 0.005          | 0                 | 0 | 0          | 5            |
| PL.23718                 | PD.3288     | C   | #4 ACSR            | 7.35Y     | 122.4        | 0.00            | 2.55          | 3.20         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 7.847             | 0.050          | 23                | 6 | 5          | 5            |
| PL.23534                 | PL.23408    | ABC | #1/0 ACSR          | 7.35Y     | 122.4        | 0.02            | 2.57          | 13.23        | 6        | 281        | 79   | 96      | 0.03       | 0.0       | 7.870             | 0.077          | 13                | 4 | 3          | 75           |
| PL.23535                 | PL.23534    | ABC | #1/0 ACSR          | 7.34Y     | 122.4        | 0.02            | 2.59          | 12.63        | 5        | 268        | 75   | 96      | 0.04       | 0.0       | 7.971             | 0.101          | 0                 | 0 | 0          | 72           |
| PL.23715                 | PL.23535    | A   | #4 ACSR            | 7.34Y     | 122.4        | 0.00            | 2.59          | 0.15         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.976             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3287                  | PL.23715    | A   | 20T                | 7.34Y     | 122.4        | 0.00            | 2.59          | 0.15         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.976             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23716                 | PD.3287     | A   | #4 ACSR            | 7.34Y     | 122.4        | 0.00            | 2.59          | 0.15         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.049             | 0.073          | 1                 | 0 | 1          | 1            |
| PL.21836                 | PL.23716    | A   | #1/0 ACSR          | 7.34Y     | 122.4        | 0.00            | 2.59          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.075             | 0.027          | 0                 | 0 | 0          | 0            |
| PL.23887                 | PL.23535    | ABC | #1/0 ACSR          | 7.34Y     | 122.4        | 0.02            | 2.61          | 12.58        | 5        | 267        | 75   | 96      | 0.04       | 0.0       | 8.067             | 0.096          | 0                 | 0 | 0          | 71           |
| PD.3376                  | PL.23887    | ABC | 35L                | 7.34Y     | 122.4        | 0.00            | 2.61          | 12.58        | 36       | 267        | 75   | 96      | 0.00       | 0.0       | 8.067             | 0.096          | 0                 | 0 | 0          | 71           |
| PL.23888                 | PD.3376     | ABC | #1/0 ACSR          | 7.34Y     | 122.4        | 0.02            | 2.63          | 12.58        | 5        | 267        | 75   | 96      | 0.04       | 0.0       | 8.163             | 0.096          | 0                 | 0 | 0          | 71           |
| PL.21847                 | PL.23888    | ABC | #1/0 ACSR          | 7.34Y     | 122.3        | 0.03            | 2.66          | 12.58        | 5        | 267        | 75   | 96      | 0.05       | 0.0       | 8.289             | 0.127          | 0                 | 0 | 0          | 71           |
| PL.21848                 | PL.21847    | ABC | #1/0 ACSR          | 7.34Y     | 122.3        | 0.03            | 2.70          | 12.58        | 5        | 267        | 75   | 96      | 0.06       | 0.0       | 8.440             | 0.150          | 0                 | 0 | 0          | 71           |
| PL.21849                 | PL.21848    | ABC | #1/0 ACSR          | 7.34Y     | 122.3        | 0.03            | 2.73          | 12.58        | 5        | 267        | 75   | 96      | 0.06       | 0.0       | 8.576             | 0.136          | 0                 | 0 | 0          | 71           |
| PL.23457                 | PL.21849    | ABC | #1/0 ACSR          | 7.33Y     | 122.2        | 0.03            | 2.76          | 12.58        | 5        | 267        | 75   | 96      | 0.05       | 0.0       | 8.693             | 0.117          | 0                 | 0 | 1          | 71           |
| PL.23458                 | PL.23457    | ABC | #1/0 ACSR          | 7.33Y     | 122.2        | 0.01            | 2.77          | 12.58        | 5        | 267        | 74   | 96      | 0.02       | 0.0       | 8.738             | 0.046          | 0                 | 0 | 0          | 70           |
| PL.23595                 | PL.23458    | ABC | #1/0 ACSR          | 7.33Y     | 122.2        | 0.01            | 2.78          | 10.31        | 4        | 218        | 61   | 96      | 0.02       | 0.0       | 8.801             | 0.062          | 5                 | 1 | 1          | 68           |
| PL.23596                 | PL.23595    | ABC | #1/0 ACSR          | 7.33Y     | 122.2        | 0.01            | 2.78          | 10.09        | 4        | 214        | 59   | 96      | 0.01       | 0.0       | 8.831             | 0.030          | 0                 | 0 | 0          | 67           |
| PL.23777                 | PL.23596    | C   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.00            | 2.78          | 1.71         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 8.835             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3319                  | PL.23777    | C   | 15T                | 7.33Y     | 122.2        | 0.00            | 2.78          | 1.71         | 0        | 12         | 3    | 97      | 0.00       | 0.0       | 8.835             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.23778                 | PD.3319     | C   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.00            | 2.78          | 1.71         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 8.861             | 0.026          | 12                | 3 | 1          | 1            |
| PL.23405                 | PL.23596    | ABC | #1/0 ACSR          | 7.33Y     | 122.2        | 0.01            | 2.79          | 9.52         | 4        | 202        | 56   | 96      | 0.01       | 0.0       | 8.875             | 0.044          | 3                 | 1 | 1          | 66           |
| PL.23773                 | PL.23405    | C   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.00            | 2.79          | 0.85         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.879             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3317                  | PL.23773    | C   | 15T                | 7.33Y     | 122.2        | 0.00            | 2.79          | 0.85         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 8.879             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23774                 | PD.3317     | C   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.00            | 2.79          | 0.85         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.915             | 0.035          | 6                 | 2 | 1          | 1            |
| PL.23406                 | PL.23405    | ABC | #1/0 ACSR          | 7.33Y     | 122.2        | 0.02            | 2.81          | 9.09         | 4        | 193        | 54   | 96      | 0.02       | 0.0       | 8.978             | 0.104          | 2                 | 0 | 1          | 64           |
| PL.23779                 | PL.23406    | C   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.81          | 1.20         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 8.983             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3320                  | PL.23779    | C   | 15T                | 7.33Y     | 122.2        | 0.00            | 2.81          | 1.20         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 8.983             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23780                 | PD.3320     | C   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.81          | 1.20         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.003             | 0.020          | 8                 | 2 | 1          | 1            |
| PL.23597                 | PL.23406    | ABC | #1/0 ACSR          | 7.33Y     | 122.2        | 0.01            | 2.82          | 8.61         | 4        | 182        | 51   | 96      | 0.01       | 0.0       | 9.034             | 0.056          | 3                 | 1 | 2          | 62           |
| PL.23598                 | PL.23597    | ABC | #1/0 ACSR          | 7.33Y     | 122.2        | 0.01            | 2.82          | 8.45         | 4        | 179        | 50   | 96      | 0.01       | 0.0       | 9.078             | 0.043          | 0                 | 0 | 0          | 60           |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23402                 | PL.23598    | ABC | #1/0 ACSR          | 7.33Y     | 122.2        | 0.01            | 2.83          | 8.45         | 4        | 179        | 50   | 96      | 0.01       | 0.0       | 9.148             | 0.071          | 3                 | 1 | 1          | 60           |
| PL.23599                 | PL.23402    | ABC | #1/0 ACSR          | 7.33Y     | 122.1        | 0.02            | 2.85          | 7.78         | 3        | 165        | 47   | 96      | 0.02       | 0.0       | 9.295             | 0.147          | 7                 | 2 | 2          | 52           |
| PL.23600                 | PL.23599    | ABC | #1/0 ACSR          | 7.33Y     | 122.1        | 0.01            | 2.87          | 7.43         | 3        | 157        | 45   | 96      | 0.02       | 0.0       | 9.403             | 0.108          | 2                 | 1 | 2          | 50           |
| PL.23607                 | PL.23600    | ABC | #1/0 ACSR          | 7.33Y     | 122.1        | 0.01            | 2.87          | 6.78         | 3        | 143        | 41   | 96      | 0.01       | 0.0       | 9.454             | 0.051          | 0                 | 0 | 0          | 45           |
| PL.23608                 | PL.23607    | ABC | #1/0 ACSR          | 7.33Y     | 122.1        | 0.01            | 2.88          | 6.78         | 3        | 143        | 41   | 96      | 0.01       | 0.0       | 9.505             | 0.051          | 3                 | 1 | 1          | 45           |
| PL.23403                 | PL.23608    | ABC | #1/0 ACSR          | 7.33Y     | 122.1        | 0.01            | 2.89          | 6.07         | 3        | 128        | 37   | 96      | 0.01       | 0.0       | 9.575             | 0.071          | 0                 | 0 | 0          | 41           |
| PL.23611                 | PL.23403    | ABC | #1/0 ACSR          | 7.33Y     | 122.1        | 0.01            | 2.89          | 5.17         | 2        | 109        | 31   | 96      | 0.00       | 0.0       | 9.639             | 0.063          | 0                 | 0 | 0          | 33           |
| PL.23612                 | PL.23611    | ABC | #1/0 ACSR          | 7.33Y     | 122.1        | 0.01            | 2.90          | 5.17         | 2        | 109        | 31   | 96      | 0.01       | 0.0       | 9.743             | 0.104          | 0                 | 0 | 0          | 33           |
| PL.23799                 | PL.23612    | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.90          | 3.20         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 9.748             | 0.005          | 0                 | 0 | 0          | 5            |
| PD.3330                  | PL.23799    | C   | 15T                | 7.33Y     | 122.1        | 0.00            | 2.90          | 3.20         | 0        | 23         | 6    | 97      | 0.00       | 0.0       | 9.748             | 0.005          | 0                 | 0 | 0          | 5            |
| PL.23800                 | PD.3330     | C   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.02            | 2.92          | 3.20         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 9.871             | 0.124          | 0                 | 0 | 0          | 5            |
| PL.23100                 | PL.23800    | C   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.02            | 2.94          | 3.20         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 10.028            | 0.157          | 6                 | 2 | 1          | 5            |
| PL.23101                 | PL.23100    | C   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.01            | 2.95          | 2.34         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 10.141            | 0.113          | 8                 | 2 | 2          | 4            |
| PL.23102                 | PL.23101    | C   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.01            | 2.96          | 1.19         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 10.286            | 0.144          | 0                 | 0 | 0          | 2            |
| PL.23105                 | PL.23102    | C   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.00            | 2.96          | 0.24         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 10.441            | 0.155          | 2                 | 0 | 1          | 1            |
| PL.23111                 | PL.23105    | C   | #4 ACSR            | 7.32Y     | 122.0        | 0.00            | 2.96          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.598            | 0.157          | 0                 | 0 | 0          | 0            |
| PL.23104                 | PL.23102    | C   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.00            | 2.96          | 0.95         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 10.340            | 0.055          | 0                 | 0 | 0          | 1            |
| PL.23106                 | PL.23104    | C   | #4 ACSR            | 7.32Y     | 122.0        | 0.00            | 2.96          | 0.95         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 10.387            | 0.046          | 0                 | 0 | 0          | 1            |
| PL.23107                 | PL.23106    | C   | #4 ACSR            | 7.32Y     | 122.0        | 0.00            | 2.96          | 0.95         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 10.444            | 0.057          | 7                 | 2 | 1          | 1            |
| PL.23404                 | PL.23612    | ABC | #1/0 ACSR          | 7.33Y     | 122.1        | 0.00            | 2.91          | 4.10         | 2        | 87         | 25   | 96      | 0.00       | 0.0       | 9.802             | 0.059          | 0                 | 0 | 0          | 28           |
| PL.23093                 | PL.23404    | ABC | #1/0 ACSR          | 7.33Y     | 122.1        | 0.00            | 2.91          | 4.10         | 2        | 87         | 25   | 96      | 0.00       | 0.0       | 9.842             | 0.040          | 0                 | 0 | 0          | 28           |
| PL.23613                 | PL.23093    | ABC | 1/0 HdCu           | 7.33Y     | 122.1        | 0.00            | 2.91          | 1.49         | 0        | 31         | 9    | 96      | 0.00       | 0.0       | 9.899             | 0.057          | 1                 | 0 | 1          | 12           |
| PL.23614                 | PL.23613    | ABC | 1/0 HdCu           | 7.33Y     | 122.1        | 0.00            | 2.91          | 1.45         | 0        | 31         | 9    | 96      | 0.00       | 0.0       | 9.956             | 0.057          | 0                 | 0 | 0          | 11           |
| PL.23863                 | PL.23614    | ABC | 1/0 HdCu           | 7.33Y     | 122.1        | 0.00            | 2.91          | 1.45         | 0        | 31         | 9    | 96      | 0.00       | 0.0       | 9.961             | 0.005          | 0                 | 0 | 0          | 11           |
| PD.3364-A                | PL.23863    | ABC | Closed             | 7.33Y     | 122.1        | 0.00            | 2.91          | 1.45         | 0        | 31         | 9    | 96      | 0.00       | 0.0       | 9.961             | 0.005          | 0                 | 0 | 0          | 11           |
| PD.3364-B                | PD.3364-A   | ABC | Closed             | 7.33Y     | 122.1        | 0.00            | 2.91          | 1.45         | 0        | 31         | 9    | 96      | 0.00       | 0.0       | 9.961             | 0.005          | 0                 | 0 | 0          | 11           |
| PL.23864                 | PD.3364-B   | ABC | 1/0 HdCu           | 7.33Y     | 122.1        | 0.00            | 2.91          | 1.45         | 0        | 31         | 9    | 96      | 0.00       | 0.0       | 9.973             | 0.012          | 0                 | 0 | 0          | 11           |
| PL.23193                 | PL.23864    | ABC | 1/0 HdCu           | 7.33Y     | 122.1        | 0.00            | 2.92          | 1.09         | 0        | 23         | 7    | 96      | 0.00       | 0.0       | 10.147            | 0.174          | 0                 | 0 | 0          | 8            |
| PL.23301                 | PL.23193    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 1.09         | 0        | 23         | 7    | 96      | 0.00       | 0.0       | 10.299            | 0.152          | 0                 | 0 | 0          | 8            |
| PL.23103                 | PL.23301    | B   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.92          | 1.43         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 10.358            | 0.059          | 0                 | 0 | 0          | 3            |
| PL.23860                 | PL.23103    | B   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.92          | 1.43         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 10.363            | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PD.3361                  | PL.23860    | B   | 10T                | 7.32Y     | 122.1        | 0.00            | 2.92          | 1.43         | 0        | 10         | 3    | 96      | 0.00       | 0.0       | 10.363            | 0.005          | 0                 | 0 | 0          | 3            |
| PL.23859                 | PD.3361     | B   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.01            | 2.93          | 1.43         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 10.524            | 0.162          | 0                 | 0 | 0          | 3            |
| PL.23616                 | PL.23859    | B   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.43         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 10.625            | 0.101          | 3                 | 1 | 1          | 3            |
| PL.23615                 | PL.23616    | B   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.93          | 0.96         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 10.665            | 0.040          | 0                 | 0 | 0          | 2            |
| PL.23099                 | PL.23615    | B   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.93          | 0.74         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.705            | 0.040          | 5                 | 1 | 1          | 1            |
| PL.23098                 | PL.23615    | B   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.93          | 0.22         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 10.704            | 0.038          | 0                 | 0 | 0          | 1            |
| PL.23097                 | PL.23098    | B   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.93          | 0.22         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 10.779            | 0.076          | 2                 | 0 | 1          | 1            |
| PL.23195                 | PL.23301    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.62         | 0        | 13         | 4    | 96      | 0.00       | 0.0       | 10.358            | 0.060          | 0                 | 0 | 0          | 5            |
| PL.23196                 | PL.23195    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.48         | 0        | 10         | 3    | 96      | 0.00       | 0.0       | 10.448            | 0.089          | 0                 | 0 | 0          | 4            |
| PL.23641                 | PL.23196    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.48         | 0        | 10         | 3    | 96      | 0.00       | 0.0       | 10.574            | 0.127          | 3                 | 1 | 1          | 4            |
| PL.23642                 | PL.23641    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.35         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 10.717            | 0.142          | 0                 | 0 | 0          | 3            |
| PL.23805                 | PL.23642    | A   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.721            | 0.004          | 0                 | 0 | 0          | 0            |
| PD.3333                  | PL.23805    | A   | 15T                | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.721            | 0.004          | 0                 | 0 | 0          | 0            |
| PL.23806                 | PD.3333     | A   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.791            | 0.070          | 0                 | 0 | 0          | 0            |
| PL.23617                 | PL.23642    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.35         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 10.806            | 0.089          | 0                 | 0 | 0          | 3            |
| PL.23618                 | PL.23617    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.35         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 10.897            | 0.091          | 0                 | 0 | 0          | 3            |
| PL.23108                 | PL.23618    | B   | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 1.04         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 11.059            | 0.162          | 0                 | 0 | 0          | 3            |
| PL.23109                 | PL.23108    | B   | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.04         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 11.226            | 0.167          | 0                 | 0 | 0          | 3            |
| PL.23127                 | PL.23109    | B   | #2 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.04         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 11.294            | 0.068          | 0                 | 0 | 0          | 3            |
| PL.23809                 | PL.23127    | B   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.04         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 11.299            | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3335                  | PL.23809    | B   | 15T                | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.04         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 11.299            | 0.005          | 0                 | 0 | 0          | 3            |
| PL.23810                 | PD.3335     | B   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.04         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 11.391            | 0.092          | 0                 | 0 | 0          | 3            |
| PL.23302                 | PL.23810    | B   | #4 ACSR            | 7.32Y     | 122.1        | 0.01            | 2.94          | 1.04         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 11.514            | 0.123          | 0                 | 0 | 0          | 3            |
| PL.23303                 | PL.23302    | B   | #4 ACSR            | 7.32Y     | 122.1        | 0.01            | 2.95          | 1.04         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 11.693            | 0.179          | 0                 | 0 | 0          | 3            |
| PL.23304                 | PL.23303    | B   | #4 ACSR            | 7.32Y     | 122.0        | 0.01            | 2.95          | 1.04         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 11.833            | 0.140          | 0                 | 0 | 0          | 3            |
| PL.23409                 | PL.23304    | B   | #4 ACSR            | 7.32Y     | 122.0        | 0.00            | 2.96          | 1.04         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 11.927            | 0.094          | 2                 | 1 | 1          | 3            |
| PL.23626                 | PL.23409    | B   | #4 ACSR            | 7.32Y     | 122.0        | 0.00            | 2.96          | 0.73         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 11.989            | 0.061          | 1                 | 0 | 1          | 2            |
| PL.23625                 | PL.23626    | B   | #4 ACSR            | 7.32Y     | 122.0        | 0.00            | 2.96          | 0.57         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 12.083            | 0.094          | 4                 | 1 | 1          | 1            |
| PL.23110                 | PL.23108    | B   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.225            | 0.165          | 0                 | 0 | 0          | 0            |
| PL.23803                 | PL.23195    | C   | #2 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.363            | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3332                  | PL.23803    | C   | 15T                | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.363            | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23804                 | PD.3332     | C   | #2 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.387            | 0.024          | 3                 | 1 | 1          | 1            |
| PL.23801                 | PL.23864    | A   | #4 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.91          | 1.08         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.977             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3331                  | PL.23801    | A   | 15T                | 7.33Y     | 122.1        | 0.00            | 2.91          | 1.08         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 9.977             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.23802                 | PD.3331     | A   | #4 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.91          | 1.08         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.997             | 0.020          | 0                 | 0 | 0          | 3            |
| PL.23194                 | PL.23802    | A   | #4 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.92          | 0.82         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 10.029            | 0.033          | 6                 | 2 | 2          | 2            |
| PL.23095                 | PL.23802    | A   | #4 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.92          | 0.26         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.090            | 0.093          | 2                 | 1 | 1          | 1            |
| PL.23094                 | PL.23093    | ABC | 1/0 HdCu           | 7.33Y     | 122.1        | 0.00            | 2.91          | 2.61         | 1        | 55         | 16   | 96      | 0.00       | 0.0       | 9.928             | 0.085          | 6                 | 2 | 2          | 16           |
| PL.23115                 | PL.23094    | ABC | 1/0 HdCu           | 7.33Y     | 122.1        | 0.00            | 2.91          | 2.34         | 1        | 49         | 14   | 96      | 0.00       | 0.0       | 9.958             | 0.030          | 0                 | 0 | 0          | 14           |
| PL.23116                 | PL.23115    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 2.34         | 1        | 49         | 14   | 96      | 0.00       | 0.0       | 10.046            | 0.088          | 0                 | 0 | 0          | 14           |
| PL.23118                 | PL.23116    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 2.26         | 1        | 48         | 13   | 97      | 0.00       | 0.0       | 10.120            | 0.074          | 0                 | 0 | 0          | 13           |
| PL.23788                 | PL.23118    | C   | #2 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.92          | 1.11         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 10.125            | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3324                  | PL.23788    | C   | 15T                | 7.32Y     | 122.1        | 0.00            | 2.92          | 1.11         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 10.125            | 0.005          | 0                 | 0 | 0          | 2            |
| PL.23787                 | PD.3324     | C   | #2 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.92          | 1.11         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 10.157            | 0.032          | 8                 | 2 | 2          | 2            |
| PL.23119                 | PL.23118    | A   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.92          | 3.40         | 3        | 24         | 7    | 96      | 0.00       | 0.0       | 10.143            | 0.023          | 0                 | 0 | 0          | 6            |
| PL.23785                 | PL.23119    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 3.40         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 10.148            | 0.005          | 0                 | 0 | 0          | 6            |
| PD.3323                  | PL.23785    | A   | 15T                | 7.32Y     | 122.1        | 0.00            | 2.92          | 3.40         | 0        | 24         | 7    | 96      | 0.00       | 0.0       | 10.148            | 0.005          | 0                 | 0 | 0          | 6            |
| PL.23786                 | PD.3323     | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.01            | 2.93          | 3.40         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 10.210            | 0.062          | 0                 | 0 | 0          | 6            |
| PL.23120                 | PL.23786    | A   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.02            | 2.96          | 3.40         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 10.354            | 0.144          | 0                 | 0 | 0          | 6            |
| PL.23191                 | PL.23120    | A   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.00            | 2.96          | 1.19         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 10.390            | 0.036          | 8                 | 2 | 2          | 2            |
| PL.23605                 | PL.23120    | A   | #1/0 ACSR          | 7.32Y     | 122.0        | 0.01            | 2.96          | 2.20         | 1        | 16         | 4    | 97      | 0.00       | 0.0       | 10.469            | 0.115          | 2                 | 1 | 1          | 4            |
| PL.23606                 | PL.23605    | A   | #1/0 ACSR          | 7.32Y     | 122.0        | 0.00            | 2.96          | 1.94         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 10.547            | 0.078          | 0                 | 0 | 0          | 3            |
| PL.23121                 | PL.23606    | A   | #1/0 ACSR          | 7.32Y     | 122.0        | 0.00            | 2.97          | 1.94         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 10.634            | 0.087          | 0                 | 0 | 0          | 3            |
| PL.66170                 | PL.23121    | A   | #1/0 ACSR          | 7.32Y     | 122.0        | 0.00            | 2.97          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.764            | 0.130          | 0                 | 0 | 0          | 0            |
| PL.23300                 | PL.23121    | A   | #1/0 ACSR          | 7.32Y     | 122.0        | 0.00            | 2.97          | 1.94         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 10.737            | 0.103          | 0                 | 0 | 0          | 3            |
| PL.23122                 | PL.23300    | A   | #1/0 ACSR          | 7.32Y     | 122.0        | 0.00            | 2.98          | 1.91         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 10.853            | 0.116          | 13                | 4 | 2          | 2            |
| PL.23192                 | PL.23300    | A   | #1/0 ACSR          | 7.32Y     | 122.0        | 0.00            | 2.97          | 0.03         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.778            | 0.041          | 0                 | 0 | 1          | 1            |
| PL.23190                 | PL.23118    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.75         | 0        | 16         | 5    | 95      | 0.00       | 0.0       | 10.243            | 0.122          | 0                 | 0 | 0          | 5            |
| PL.23125                 | PL.23190    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.66         | 0        | 14         | 4    | 96      | 0.00       | 0.0       | 10.292            | 0.050          | 0                 | 0 | 0          | 4            |
| PL.23123                 | PL.23125    | ABC | 1/0 HdCu           | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.66         | 0        | 14         | 4    | 96      | 0.00       | 0.0       | 10.404            | 0.111          | 2                 | 1 | 2          | 4            |
| PL.23784                 | PL.23123    | A   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.92          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 10.408            | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3322                  | PL.23784    | A   | 15T                | 7.32Y     | 122.1        | 0.00            | 2.92          | 1.72         | 0        | 12         | 3    | 97      | 0.00       | 0.0       | 10.408            | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23783                 | PD.3322     | A   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.92          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 10.486            | 0.078          | 0                 | 0 | 0          | 2            |
| PL.23604                 | PL.23783    | A   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 10.542            | 0.056          | 0                 | 0 | 0          | 2            |
| PL.23603                 | PL.23604    | A   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 10.591            | 0.049          | 0                 | 0 | 0          | 2            |
| PL.23601                 | PL.23603    | A   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 10.622            | 0.031          | 4                 | 1 | 1          | 2            |
| PL.23602                 | PL.23601    | A   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.13         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 10.692            | 0.070          | 8                 | 2 | 1          | 1            |
| PL.23124                 | PL.23190    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.27         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.257            | 0.014          | 2                 | 1 | 1          | 1            |
| PL.23789                 | PL.23116    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 10.051            | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3325                  | PL.23789    | A   | 15T                | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 10.051            | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23790                 | PD.3325     | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 10.094            | 0.043          | 2                 | 0 | 1          | 1            |
| PL.23795                 | PL.23403    | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.89          | 2.69         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 9.580             | 0.005          | 0                 | 0 | 0          | 8            |
| PD.3328                  | PL.23795    | C   | 15T                | 7.33Y     | 122.1        | 0.00            | 2.89          | 2.69         | 0        | 19         | 5    | 97      | 0.00       | 0.0       | 9.580             | 0.005          | 0                 | 0 | 0          | 8            |
| PL.23796                 | PD.3328     | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.89          | 2.69         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 9.621             | 0.041          | 3                 | 1 | 3          | 8            |
| PL.23610                 | PL.23796    | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.90          | 2.32         | 2        | 16         | 5    | 95      | 0.00       | 0.0       | 9.686             | 0.065          | 10                | 3 | 2          | 5            |
| PL.23113                 | PL.23610    | C   | #4 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.90          | 0.88         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.704             | 0.019          | 6                 | 2 | 3          | 3            |
| PL.23791                 | PL.23113    | C   | #2 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.90          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.709             | 0.005          | 0                 | 0 | 0          | 0            |
| PD.3326                  | PL.23791    | C   | 10T                | 7.33Y     | 122.1        | 0.00            | 2.90          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.709             | 0.005          | 0                 | 0 | 0          | 0            |
| PL.23792                 | PD.3326     | C   | #2 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.90          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.802             | 0.093          | 0                 | 0 | 0          | 0            |
| PL.23797                 | PL.23608    | A   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.88          | 1.73         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 9.509             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3329                  | PL.23797    | A   | 15T                | 7.33Y     | 122.1        | 0.00            | 2.88          | 1.73         | 0        | 12         | 3    | 97      | 0.00       | 0.0       | 9.509             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.23798                 | PD.3329     | A   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.01            | 2.89          | 1.73         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 9.581             | 0.072          | 3                 | 1 | 1          | 3            |
| PL.23092                 | PL.23798    | A   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.89          | 1.36         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 9.697             | 0.116          | 10                | 3 | 2          | 2            |
| PL.23793                 | PL.23600    | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.87          | 1.60         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.408             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3327                  | PL.23793    | C   | 15T                | 7.33Y     | 122.1        | 0.00            | 2.87          | 1.60         | 0        | 11         | 3    | 96      | 0.00       | 0.0       | 9.408             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.23794                 | PD.3327     | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.87          | 1.60         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.455             | 0.047          | 6                 | 2 | 1          | 3            |
| PL.23609                 | PL.23794    | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.87          | 0.70         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 9.482             | 0.027          | 5                 | 1 | 2          | 2            |
| PL.23829                 | PL.23402    | C   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.00            | 2.83          | 1.64         | 1        | 12         | 2    | 99      | 0.00       | 0.0       | 9.153             | 0.005          | 0                 | 0 | 0          | 7            |
| PD.3346                  | PL.23829    | C   | 15T                | 7.33Y     | 122.2        | 0.00            | 2.83          | 1.64         | 0        | 12         | 2    | 99      | 0.00       | 0.0       | 9.153             | 0.005          | 0                 | 0 | 0          | 7            |
| PL.23830                 | PD.3346     | C   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.00            | 2.84          | 1.64         | 1        | 12         | 2    | 99      | 0.00       | 0.0       | 9.198             | 0.045          | 2                 | 1 | 1          | 7            |
| PL.23090                 | PL.23830    | C   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.01            | 2.84          | 1.32         | 1        | 10         | 1    | 100     | 0.00       | 0.0       | 9.315             | 0.117          | 0                 | 0 | 1          | 6            |
| PL.23091                 | PL.23090    | C   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.01            | 2.85          | 1.30         | 1        | 9          | 1    | 99      | 0.00       | 0.0       | 9.410             | 0.095          | 0                 | 0 | 0          | 5            |
| PL.23299                 | PL.23091    | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.01            | 2.85          | 1.30         | 1        | 9          | 1    | 99      | 0.00       | 0.0       | 9.523             | 0.113          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |    | Cons<br>On | Cons<br>Thru |
| PL.23781                 | PL.23299    | C   | 2 AL URD           | 7.33Y     | 122.1        | 0.00            | 2.85          | 1.30         | 1        | 9          | 1    | 99      | 0.00       | 0.0       | 9.527             | 0.005          | 0                 | 0  | 0          | 4            |
| PD.3321                  | PL.23781    | C   | 10T                | 7.33Y     | 122.1        | 0.00            | 2.85          | 1.30         | 0        | 9          | 1    | 99      | 0.00       | 0.0       | 9.527             | 0.005          | 0                 | 0  | 0          | 4            |
| PL.23782                 | PD.3321     | C   | 2 AL URD           | 7.33Y     | 122.1        | 0.00            | 2.86          | 1.30         | 1        | 9          | 1    | 99      | 0.00       | 0.0       | 9.650             | 0.122          | 6                 | 2  | 2          | 4            |
| PL.23309                 | PL.23782    | C   | 2 AL URD           | 7.33Y     | 122.1        | 0.00            | 2.86          | 0.43         | 0        | 3          | 0    | 100     | 0.00       | 0.0       | 9.814             | 0.164          | 0                 | 0  | 0          | 2            |
| PL.23114                 | PL.23309    | C   | 2 AL URD           | 7.33Y     | 122.1        | 0.00            | 2.86          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 9.848             | 0.034          | 1                 | 0  | 1          | 1            |
| PL.23310                 | PL.23309    | C   | 2 AL URD           | 7.33Y     | 122.1        | 0.00            | 2.86          | 0.34         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 9.919             | 0.105          | 2                 | 1  | 1          | 1            |
| PL.23775                 | PL.23458    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.77          | 6.82         | 3        | 48         | 14   | 96      | 0.00       | 0.0       | 8.743             | 0.005          | 0                 | 0  | 0          | 2            |
| PD.3318                  | PL.23775    | A   | 15T                | 7.33Y     | 122.2        | 0.00            | 2.77          | 6.82         | 0        | 48         | 14   | 96      | 0.00       | 0.0       | 8.743             | 0.005          | 0                 | 0  | 0          | 2            |
| PL.23776                 | PD.3318     | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.01            | 2.78          | 6.82         | 3        | 48         | 14   | 96      | 0.00       | 0.0       | 8.820             | 0.076          | 0                 | 0  | 0          | 2            |
| PL.23298                 | PL.23776    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.02            | 2.80          | 6.82         | 3        | 48         | 14   | 96      | 0.01       | 0.0       | 8.935             | 0.116          | 0                 | 0  | 0          | 2            |
| PL.23536                 | PL.23298    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.01            | 2.81          | 6.82         | 3        | 48         | 14   | 96      | 0.00       | 0.0       | 8.986             | 0.051          | 2                 | 0  | 1          | 2            |
| PL.23537                 | PL.23536    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.01            | 2.82          | 6.58         | 3        | 46         | 13   | 96      | 0.00       | 0.0       | 9.167             | 0.180          | 46                | 13 | 1          | 1            |
| PL.23691                 | PL.23413    | A   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.00            | 2.26          | 0.93         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 6.797             | 0.004          | 0                 | 0  | 0          | 2            |
| PD.3275                  | PL.23691    | A   | 10T                | 7.36Y     | 122.7        | 0.00            | 2.26          | 0.93         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 6.797             | 0.004          | 0                 | 0  | 0          | 2            |
| PL.23692                 | PD.3275     | A   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.00            | 2.26          | 0.93         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 6.855             | 0.058          | 7                 | 2  | 2          | 2            |
| PL.23693                 | PL.23416    | A   | #4 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.24          | 1.13         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 6.732             | 0.005          | 0                 | 0  | 0          | 1            |
| PD.3276                  | PL.23693    | A   | 20T                | 7.37Y     | 122.8        | 0.00            | 2.24          | 1.13         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 6.732             | 0.005          | 0                 | 0  | 0          | 1            |
| PL.23694                 | PD.3276     | A   | #4 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.24          | 1.13         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 6.783             | 0.051          | 8                 | 2  | 1          | 1            |
| PL.22861                 | PL.23886    | ABC | 6 A (CWC)          | 7.37Y     | 122.9        | 0.00            | 2.09          | 0.78         | 1        | 16         | 8    | 89      | 0.00       | 0.0       | 6.414             | 0.005          | 0                 | 0  | 0          | 2            |
| PD.3363                  | PL.22861    | ABC | 20T                | 7.37Y     | 122.9        | 0.00            | 2.09          | 0.78         | 0        | 16         | 8    | 89      | 0.00       | 0.0       | 6.414             | 0.005          | 0                 | 0  | 0          | 2            |
| PL.23181                 | PD.3363     | ABC | 6 A (CWC)          | 7.37Y     | 122.9        | 0.00            | 2.09          | 0.67         | 0        | 13         | 6    | 91      | 0.00       | 0.0       | 6.471             | 0.057          | 0                 | 0  | 0          | 1            |
| PL.22862                 | PL.23181    | ABC | 6 A (CWC)          | 7.37Y     | 122.9        | 0.00            | 2.10          | 0.67         | 0        | 13         | 6    | 91      | 0.00       | 0.0       | 6.605             | 0.134          | 0                 | 0  | 0          | 1            |
| PL.23287                 | PL.22862    | ABC | 6 A (CWC)          | 7.37Y     | 122.9        | 0.00            | 2.10          | 0.67         | 0        | 13         | 6    | 91      | 0.00       | 0.0       | 6.678             | 0.073          | 0                 | 0  | 0          | 1            |
| PL.23288                 | PL.23287    | ABC | 6 A (CWC)          | 7.37Y     | 122.9        | 0.00            | 2.10          | 0.67         | 0        | 13         | 6    | 91      | 0.00       | 0.0       | 6.764             | 0.086          | 0                 | 0  | 0          | 1            |
| PL.23289                 | PL.23288    | ABC | 6 A (CWC)          | 7.37Y     | 122.9        | 0.00            | 2.10          | 0.67         | 0        | 13         | 6    | 91      | 0.00       | 0.0       | 6.884             | 0.120          | 13                | 6  | 1          | 1            |
| PL.22860                 | PD.3363     | ABC | 6 A (CWC)          | 7.37Y     | 122.9        | 0.00            | 2.09          | 0.11         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.470             | 0.056          | 2                 | 1  | 1          | 1            |
| PL.23689                 | PL.23286    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.96          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.198             | 0.005          | 0                 | 0  | 0          | 0            |
| PD.3274                  | PL.23689    | C   | 30T                | 7.38Y     | 123.0        | 0.00            | 1.96          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.198             | 0.005          | 0                 | 0  | 0          | 0            |
| PL.23690                 | PD.3274     | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.96          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.273             | 0.075          | 0                 | 0  | 0          | 0            |
| PL.23883                 | PL.23510    | ABC | #1/0 ACSR          | 7.39Y     | 123.2        | 0.01            | 1.81          | 21.22        | 9        | 452        | 129  | 96      | 0.04       | 0.0       | 5.970             | 0.036          | 0                 | 0  | 0          | 128          |
| PD.3374                  | PL.23883    | ABC | 50L                | 7.39Y     | 123.2        | 0.00            | 1.81          | 21.22        | 42       | 452        | 129  | 96      | 0.00       | 0.0       | 5.970             | 0.036          | 0                 | 0  | 0          | 128          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23884                 | PD.3374     | ABC | #1/0 ACSR          | 7.39Y     | 123.1        | 0.07            | 1.88          | 21.22        | 9        | 452        | 129  | 96      | 0.22       | 0.0       | 6.152             | 0.182          | 7                 | 2 | 1          | 128          |
| PL.23501                 | PL.23884    | ABC | #1/0 ACSR          | 7.39Y     | 123.1        | 0.03            | 1.91          | 20.90        | 9        | 445        | 127  | 96      | 0.09       | 0.0       | 6.229             | 0.077          | 0                 | 0 | 0          | 127          |
| PL.23683                 | PL.23501    | A   | #2 ACSR            | 7.39Y     | 123.1        | 0.00            | 1.91          | 0.14         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.233             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3271                  | PL.23683    | A   | 20T                | 7.39Y     | 123.1        | 0.00            | 1.91          | 0.14         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.233             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23684                 | PD.3271     | A   | #2 ACSR            | 7.39Y     | 123.1        | 0.00            | 1.91          | 0.14         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.256             | 0.023          | 1                 | 0 | 1          | 1            |
| PL.22863                 | PL.23501    | C   | #2 ACSR            | 7.39Y     | 123.1        | 0.00            | 1.91          | 2.46         | 1        | 17         | 5    | 96      | 0.00       | 0.0       | 6.236             | 0.008          | 6                 | 2 | 1          | 6            |
| PL.23685                 | PL.22863    | C   | 6 A (CWC)          | 7.39Y     | 123.1        | 0.00            | 1.91          | 1.62         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 6.241             | 0.005          | 0                 | 0 | 0          | 5            |
| PD.3272                  | PL.23685    | C   | 20T                | 7.39Y     | 123.1        | 0.00            | 1.91          | 1.62         | 0        | 12         | 3    | 97      | 0.00       | 0.0       | 6.241             | 0.005          | 0                 | 0 | 0          | 5            |
| PL.23686                 | PD.3272     | C   | 6 A (CWC)          | 7.39Y     | 123.1        | 0.01            | 1.91          | 1.62         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 6.334             | 0.093          | 2                 | 1 | 1          | 5            |
| PL.23498                 | PL.23686    | C   | #4 ACSR            | 7.39Y     | 123.1        | 0.00            | 1.91          | 1.35         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 6.345             | 0.011          | 0                 | 0 | 1          | 4            |
| PL.23502                 | PL.23498    | C   | #4 ACSR            | 7.38Y     | 123.1        | 0.00            | 1.92          | 1.34         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 6.397             | 0.052          | 0                 | 0 | 0          | 3            |
| PL.23503                 | PL.23502    | C   | #4 ACSR            | 7.38Y     | 123.1        | 0.00            | 1.92          | 1.34         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 6.418             | 0.020          | 10                | 3 | 3          | 3            |
| PL.23166                 | PL.23501    | ABC | #1/0 ACSR          | 7.38Y     | 123.1        | 0.02            | 1.93          | 20.03        | 9        | 427        | 122  | 96      | 0.07       | 0.0       | 6.290             | 0.062          | 0                 | 0 | 0          | 120          |
| PL.22991                 | PL.23166    | ABC | #1/0 ACSR          | 7.38Y     | 123.1        | 0.01            | 1.94          | 20.03        | 9        | 427        | 122  | 96      | 0.04       | 0.0       | 6.331             | 0.040          | 0                 | 0 | 0          | 120          |
| PL.23629                 | PL.22991    | ABC | #1/0 ACSR          | 7.38Y     | 123.0        | 0.02            | 1.96          | 18.75        | 8        | 399        | 114  | 96      | 0.05       | 0.0       | 6.389             | 0.058          | 0                 | 0 | 1          | 107          |
| PL.23630                 | PL.23629    | ABC | #1/0 ACSR          | 7.38Y     | 123.0        | 0.02            | 1.98          | 18.73        | 8        | 399        | 114  | 96      | 0.05       | 0.0       | 6.446             | 0.057          | 1                 | 0 | 1          | 106          |
| PL.23627                 | PL.23630    | ABC | #1/0 ACSR          | 7.38Y     | 123.0        | 0.01            | 1.99          | 18.69        | 8        | 398        | 114  | 96      | 0.02       | 0.0       | 6.468             | 0.022          | 2                 | 0 | 1          | 105          |
| PL.23628                 | PL.23627    | ABC | #1/0 ACSR          | 7.38Y     | 123.0        | 0.05            | 2.04          | 18.61        | 8        | 396        | 113  | 96      | 0.15       | 0.0       | 6.630             | 0.161          | 0                 | 0 | 0          | 104          |
| PL.23823                 | PL.23628    | A   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 2.04          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.634             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3343                  | PL.23823    | A   | 20T                | 7.38Y     | 123.0        | 0.00            | 2.04          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.634             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23824                 | PD.3343     | A   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 2.04          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.688             | 0.054          | 2                 | 1 | 1          | 1            |
| PL.23168                 | PL.23628    | ABC | #1/0 ACSR          | 7.38Y     | 122.9        | 0.02            | 2.07          | 18.50        | 8        | 394        | 112  | 96      | 0.06       | 0.0       | 6.700             | 0.070          | 0                 | 0 | 0          | 103          |
| PL.23821                 | PL.23168    | C   | #4 ACSR            | 7.38Y     | 122.9        | 0.00            | 2.07          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.704             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3342                  | PL.23821    | C   | 20T                | 7.38Y     | 122.9        | 0.00            | 2.07          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.704             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23822                 | PD.3342     | C   | #4 ACSR            | 7.38Y     | 122.9        | 0.00            | 2.07          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.724             | 0.020          | 0                 | 0 | 1          | 1            |
| PL.23169                 | PL.23168    | ABC | #1/0 ACSR          | 7.37Y     | 122.9        | 0.02            | 2.09          | 18.49        | 8        | 394        | 112  | 96      | 0.05       | 0.0       | 6.756             | 0.057          | 0                 | 0 | 0          | 102          |
| PL.23348                 | PL.23169    | ABC | #1/0 ACSR          | 7.37Y     | 122.9        | 0.01            | 2.10          | 18.49        | 8        | 393        | 112  | 96      | 0.03       | 0.0       | 6.794             | 0.037          | 0                 | 0 | 1          | 102          |
| PL.23349                 | PL.23348    | ABC | #1/0 ACSR          | 7.37Y     | 122.9        | 0.04            | 2.14          | 18.49        | 8        | 393        | 112  | 96      | 0.11       | 0.0       | 6.920             | 0.127          | 3                 | 1 | 2          | 101          |
| PL.23877                 | PL.23349    | B   | 6 A (CWC)          | 7.37Y     | 122.9        | 0.00            | 2.15          | 32.02        | 23       | 227        | 65   | 96      | 0.01       | 0.0       | 6.923             | 0.003          | 0                 | 0 | 0          | 60           |
| C PD.3371                | PL.23877    | B   | 35L                | 7.37Y     | 122.9        | 0.00            | 2.15          | 32.02        | 91       | 227        | 65   | 96      | 0.00       | 0.0       | 6.923             | 0.003          | 0                 | 0 | 0          | 60 C         |
| PL.23878                 | PD.3371     | B   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.14            | 2.29          | 32.02        | 23       | 227        | 65   | 96      | 0.24       | 0.1       | 7.021             | 0.098          | 0                 | 0 | 0          | 60           |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23170                 | PL.23878    | B   | 6 A (CWC)          | 7.36Y     | 122.6        | 0.07            | 2.36          | 32.02        | 23       | 227        | 65   | 96      | 0.13       | 0.1       | 7.072             | 0.051          | 1                 | 0 | 1          | 60           |
| PL.23039                 | PL.23170    | B   | #4 ACSR            | 7.36Y     | 122.6        | 0.00            | 2.36          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.116             | 0.044          | 2                 | 1 | 1          | 1            |
| PL.23427                 | PL.23170    | B   | 6 A (CWC)          | 7.35Y     | 122.5        | 0.13            | 2.49          | 31.58        | 23       | 223        | 64   | 96      | 0.22       | 0.1       | 7.163             | 0.091          | 5                 | 1 | 1          | 58           |
| PL.23428                 | PL.23427    | B   | 6 A (CWC)          | 7.34Y     | 122.4        | 0.15            | 2.64          | 30.36        | 22       | 215        | 61   | 96      | 0.24       | 0.1       | 7.271             | 0.108          | 7                 | 2 | 2          | 56           |
| PL.23042                 | PL.23428    | B   | 6 A (CWC)          | 7.34Y     | 122.3        | 0.02            | 2.66          | 29.38        | 21       | 207        | 59   | 96      | 0.03       | 0.0       | 7.287             | 0.016          | 0                 | 0 | 0          | 54           |
| PL.23043                 | PL.23042    | B   | 6 A (CWC)          | 7.34Y     | 122.3        | 0.00            | 2.67          | 3.08         | 2        | 22         | 6    | 96      | 0.00       | 0.0       | 7.336             | 0.049          | 22                | 6 | 3          | 3            |
| PL.23171                 | PL.23042    | B   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.15            | 2.81          | 26.30        | 19       | 186        | 53   | 96      | 0.20       | 0.1       | 7.408             | 0.121          | 0                 | 0 | 0          | 51           |
| PL.23172                 | PL.23171    | B   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.11            | 2.91          | 26.30        | 19       | 185        | 53   | 96      | 0.15       | 0.1       | 7.496             | 0.088          | 5                 | 1 | 2          | 51           |
| PL.23045                 | PL.23172    | B   | 6 A (CWC)          | 7.32Y     | 121.9        | 0.16            | 3.07          | 25.63        | 18       | 181        | 51   | 96      | 0.22       | 0.1       | 7.633             | 0.136          | 0                 | 0 | 0          | 49           |
| PL.23346                 | PL.23045    | B   | 6 A (CWC)          | 7.31Y     | 121.9        | 0.07            | 3.14          | 25.63        | 18       | 180        | 51   | 96      | 0.09       | 0.0       | 7.688             | 0.056          | 2                 | 1 | 1          | 49           |
| PL.23347                 | PL.23346    | B   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.05            | 3.19          | 25.31        | 18       | 178        | 50   | 96      | 0.07       | 0.0       | 7.730             | 0.042          | 0                 | 0 | 1          | 48           |
| PL.23345                 | PL.23347    | B   | 6 A (CWC)          | 7.30Y     | 121.6        | 0.17            | 3.36          | 25.27        | 18       | 178        | 50   | 96      | 0.23       | 0.1       | 7.881             | 0.151          | 5                 | 1 | 1          | 47           |
| PL.23344                 | PL.23345    | B   | 6 A (CWC)          | 7.30Y     | 121.6        | 0.05            | 3.41          | 24.63        | 18       | 173        | 49   | 96      | 0.07       | 0.0       | 7.929             | 0.048          | 11                | 3 | 2          | 46           |
| PL.23342                 | PL.23344    | B   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.13            | 3.54          | 23.06        | 16       | 162        | 46   | 96      | 0.16       | 0.1       | 8.052             | 0.123          | 2                 | 0 | 1          | 44           |
| PL.23343                 | PL.23342    | B   | 6 A (CWC)          | 7.29Y     | 121.4        | 0.03            | 3.57          | 22.82        | 16       | 160        | 45   | 96      | 0.03       | 0.0       | 8.076             | 0.024          | 0                 | 0 | 0          | 43           |
| PL.23046                 | PL.23343    | B   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.171             | 0.095          | 2                 | 1 | 1          | 1            |
| PL.23173                 | PL.23343    | B   | 6 A (CWC)          | 7.28Y     | 121.4        | 0.02            | 3.59          | 22.49        | 16       | 158        | 45   | 96      | 0.03       | 0.0       | 8.097             | 0.021          | 1                 | 0 | 1          | 42           |
| PL.23048                 | PL.23173    | B   | 6 A (CWC)          | 7.28Y     | 121.4        | 0.00            | 3.59          | 22.28        | 16       | 156        | 44   | 96      | 0.01       | 0.0       | 8.102             | 0.005          | 0                 | 0 | 0          | 41           |
| PD.3341                  | PL.23048    | B   | 15T                | 7.28Y     | 121.4        | 0.00            | 3.59          | 22.28        | 0        | 156        | 44   | 96      | 0.00       | 0.0       | 8.102             | 0.005          | 0                 | 0 | 0          | 41           |
| PL.23047                 | PD.3341     | B   | #1/0 ACSR          | 7.28Y     | 121.4        | 0.00            | 3.60          | 3.34         | 1        | 23         | 7    | 96      | 0.00       | 0.0       | 8.137             | 0.035          | 23                | 7 | 3          | 3            |
| PL.23441                 | PD.3341     | B   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.13            | 3.72          | 18.94        | 14       | 133        | 38   | 96      | 0.12       | 0.1       | 8.248             | 0.146          | 3                 | 1 | 1          | 38           |
| PL.23323                 | PL.23441    | B   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.00            | 3.72          | 0.88         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.287             | 0.039          | 6                 | 2 | 1          | 1            |
| PL.23324                 | PL.23323    | B   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.00            | 3.72          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.344             | 0.057          | 0                 | 0 | 0          | 0            |
| PL.23442                 | PL.23441    | B   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.05            | 3.77          | 17.65        | 13       | 124        | 35   | 96      | 0.04       | 0.0       | 8.308             | 0.060          | 4                 | 1 | 2          | 36           |
| PL.23081                 | PL.23442    | B   | #1/0 ACSR          | 7.27Y     | 121.2        | 0.00            | 3.77          | 1.07         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 8.335             | 0.028          | 8                 | 2 | 1          | 1            |
| PL.23443                 | PL.23442    | B   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.08            | 3.85          | 15.97        | 11       | 112        | 32   | 96      | 0.07       | 0.1       | 8.418             | 0.111          | 1                 | 0 | 1          | 33           |
| PL.23079                 | PL.23443    | B   | 6 A (CWC)          | 7.26Y     | 121.1        | 0.08            | 3.93          | 7.39         | 5        | 52         | 15   | 96      | 0.03       | 0.1       | 8.672             | 0.254          | 1                 | 0 | 1          | 13           |
| PL.23082                 | PL.23079    | B   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.05            | 3.98          | 7.20         | 5        | 50         | 14   | 96      | 0.02       | 0.0       | 8.848             | 0.176          | 15                | 4 | 3          | 12           |
| PL.23440                 | PL.23082    | B   | #4 ACSR            | 7.26Y     | 121.0        | 0.03            | 4.01          | 5.10         | 4        | 36         | 10   | 96      | 0.01       | 0.0       | 8.988             | 0.140          | 1                 | 0 | 1          | 9            |
| PL.23815                 | PL.23440    | B   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 4.01          | 4.73         | 4        | 33         | 9    | 96      | 0.00       | 0.0       | 8.993             | 0.005          | 0                 | 0 | 0          | 7            |
| PD.3338                  | PL.23815    | B   | 15T                | 7.26Y     | 121.0        | 0.00            | 4.01          | 4.73         | 0        | 33         | 9    | 96      | 0.00       | 0.0       | 8.993             | 0.005          | 0                 | 0 | 0          | 7            |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.23816                 | PD.3338     | B   | #4 ACSR            | 7.26Y     | 121.0        | 0.03            | 4.04          | 4.73         | 4        | 33         | 9    | 96      | 0.01       | 0.0       | 9.114             | 0.121          | 0                 | 0 | 0          | 7            |
| PL.23279                 | PL.23816    | B   | #4 ACSR            | 7.26Y     | 120.9        | 0.04            | 4.08          | 4.73         | 4        | 33         | 9    | 96      | 0.01       | 0.0       | 9.287             | 0.174          | 0                 | 0 | 0          | 7            |
| PL.23280                 | PL.23279    | B   | #4 ACSR            | 7.25Y     | 120.9        | 0.02            | 4.09          | 4.73         | 4        | 33         | 9    | 96      | 0.00       | 0.0       | 9.360             | 0.073          | 0                 | 0 | 0          | 7            |
| PL.23321                 | PL.23280    | B   | #4 ACSR            | 7.25Y     | 120.9        | 0.01            | 4.10          | 4.73         | 4        | 33         | 9    | 96      | 0.00       | 0.0       | 9.423             | 0.063          | 7                 | 2 | 1          | 7            |
| PL.23322                 | PL.23321    | B   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.11          | 3.76         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 9.444             | 0.021          | 0                 | 0 | 0          | 6            |
| PL.23084                 | PL.23322    | B   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.54         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.495             | 0.051          | 0                 | 0 | 0          | 1            |
| PL.23813                 | PL.23084    | B   | 1/0 AL URD         | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.54         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.500             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3337                  | PL.23813    | B   | 12T                | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.54         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.500             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23814                 | PD.3337     | B   | 1/0 AL URD         | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.54         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.518             | 0.018          | 0                 | 0 | 0          | 1            |
| PL.23811                 | PL.23814    | B   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.54         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.523             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3336                  | PL.23811    | B   | 10T                | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.54         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.523             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23812                 | PD.3336     | B   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.54         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.548             | 0.025          | 0                 | 0 | 0          | 1            |
| PL.23085                 | PL.23812    | B   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.582             | 0.034          | 0                 | 0 | 0          | 0            |
| PL.23086                 | PL.23812    | B   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.54         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.615             | 0.067          | 4                 | 1 | 1          | 1            |
| PL.23317                 | PL.23322    | B   | #4 ACSR            | 7.25Y     | 120.9        | 0.01            | 4.12          | 3.22         | 2        | 22         | 6    | 96      | 0.00       | 0.0       | 9.557             | 0.113          | 5                 | 1 | 1          | 5            |
| PL.23318                 | PL.23317    | B   | #4 ACSR            | 7.25Y     | 120.9        | 0.01            | 4.13          | 2.57         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 9.605             | 0.048          | 0                 | 0 | 0          | 4            |
| PL.23319                 | PL.23318    | B   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 1.52         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.670             | 0.065          | 0                 | 0 | 1          | 3            |
| PL.23320                 | PL.23319    | B   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.14          | 1.52         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.716             | 0.046          | 0                 | 0 | 0          | 2            |
| PL.23281                 | PL.23320    | B   | #4 ACSR            | 7.25Y     | 120.9        | 0.01            | 4.14          | 1.52         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.866             | 0.150          | 3                 | 1 | 1          | 2            |
| PL.23088                 | PL.23281    | B   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.15          | 1.14         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 10.049            | 0.183          | 0                 | 0 | 0          | 1            |
| PL.23282                 | PL.23088    | B   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.16          | 1.14         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 10.128            | 0.079          | 8                 | 2 | 1          | 1            |
| PL.23087                 | PL.23318    | B   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 1.05         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 9.633             | 0.028          | 7                 | 2 | 1          | 1            |
| PL.23083                 | PL.23440    | B   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 4.01          | 0.21         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 9.030             | 0.042          | 1                 | 0 | 1          | 1            |
| PL.23066                 | PL.23443    | B   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.03            | 3.88          | 8.45         | 6        | 59         | 17   | 96      | 0.01       | 0.0       | 8.489             | 0.071          | 0                 | 0 | 0          | 19           |
| PL.23315                 | PL.23066    | B   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.02            | 3.89          | 8.16         | 6        | 57         | 16   | 96      | 0.01       | 0.0       | 8.533             | 0.044          | 1                 | 0 | 2          | 17           |
| PL.23316                 | PL.23315    | B   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.01            | 3.90          | 8.01         | 6        | 56         | 16   | 96      | 0.00       | 0.0       | 8.565             | 0.032          | 3                 | 1 | 1          | 15           |
| PL.23067                 | PL.23316    | B   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.01            | 3.91          | 6.47         | 5        | 45         | 13   | 96      | 0.00       | 0.0       | 8.595             | 0.030          | 0                 | 0 | 0          | 13           |
| PL.23069                 | PL.23067    | B   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.04            | 3.95          | 5.97         | 4        | 42         | 12   | 96      | 0.01       | 0.0       | 8.744             | 0.149          | 4                 | 1 | 1          | 12           |
| PL.23313                 | PL.23069    | B   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.02            | 3.97          | 5.34         | 4        | 37         | 11   | 96      | 0.00       | 0.0       | 8.820             | 0.076          | 4                 | 1 | 1          | 10           |
| PL.23314                 | PL.23313    | B   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.01            | 3.98          | 4.81         | 3        | 34         | 9    | 97      | 0.00       | 0.0       | 8.895             | 0.075          | 7                 | 2 | 2          | 9            |
| PL.23312                 | PL.23314    | B   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.03            | 4.01          | 3.83         | 3        | 27         | 8    | 96      | 0.01       | 0.0       | 9.081             | 0.185          | 2                 | 1 | 1          | 7            |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23311                 | PL.23312    | B   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.01            | 4.03          | 3.48         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 9.163             | 0.082          | 0                 | 0 | 0          | 6            |
| PL.23174                 | PL.23311    | B   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.01            | 4.03          | 2.72         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 9.222             | 0.059          | 0                 | 0 | 0          | 5            |
| PL.23284                 | PL.23174    | B   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.02            | 4.06          | 2.72         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 9.386             | 0.164          | 0                 | 0 | 0          | 5            |
| PL.23285                 | PL.23284    | B   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.02            | 4.07          | 2.72         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 9.534             | 0.149          | 0                 | 0 | 0          | 5            |
| PL.23175                 | PL.23285    | B   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.01            | 4.08          | 2.72         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 9.590             | 0.056          | 0                 | 0 | 0          | 5            |
| PL.23073                 | PL.23175    | B   | #4 ACSR            | 7.26Y     | 120.9        | 0.00            | 4.08          | 0.89         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.649             | 0.059          | 6                 | 2 | 2          | 2            |
| PL.23176                 | PL.23175    | B   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.00            | 4.08          | 1.83         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.622             | 0.032          | 0                 | 0 | 0          | 3            |
| PL.23074                 | PL.23176    | B   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.08          | 0.57         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.661             | 0.039          | 4                 | 1 | 2          | 2            |
| PL.23075                 | PL.23176    | B   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.09          | 1.26         | 1        | 9          | 2    | 98      | 0.00       | 0.0       | 9.671             | 0.048          | 0                 | 0 | 0          | 1            |
| PL.23077                 | PL.23075    | B   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.09          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.743             | 0.072          | 0                 | 0 | 0          | 0            |
| PL.23076                 | PL.23075    | B   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.09          | 1.26         | 1        | 9          | 2    | 98      | 0.00       | 0.0       | 9.737             | 0.067          | 9                 | 2 | 1          | 1            |
| PL.23071                 | PL.23311    | B   | #1/0 ACSR          | 7.26Y     | 121.0        | 0.00            | 4.03          | 0.76         | 0        | 5          | 2    | 93      | 0.00       | 0.0       | 9.219             | 0.056          | 5                 | 2 | 1          | 1            |
| PL.23070                 | PL.23069    | B   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.95          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.885             | 0.141          | 0                 | 0 | 1          | 1            |
| PL.23068                 | PL.23067    | B   | #4 ACSR            | 7.27Y     | 121.1        | 0.00            | 3.91          | 0.49         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 8.684             | 0.089          | 3                 | 1 | 1          | 1            |
| PL.23447                 | PL.23316    | B   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.00            | 3.90          | 1.04         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 8.618             | 0.053          | 7                 | 2 | 1          | 1            |
| PL.23078                 | PL.23066    | B   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.00            | 3.88          | 0.30         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.557             | 0.068          | 2                 | 1 | 2          | 2            |
| PL.23080                 | PL.23066    | B   | #4 ACSR            | 7.27Y     | 121.1        | 0.00            | 3.88          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.585             | 0.096          | 0                 | 0 | 0          | 0            |
| PL.23283                 | PL.23080    | B   | #4 ACSR            | 7.27Y     | 121.1        | 0.00            | 3.88          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.729             | 0.144          | 0                 | 0 | 0          | 0            |
| PL.23044                 | PL.23171    | B   | #4 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.81          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.474             | 0.066          | 0                 | 0 | 0          | 0            |
| PL.23040                 | PL.23427    | B   | 6 A (CWC)          | 7.35Y     | 122.5        | 0.00            | 2.49          | 0.55         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 7.215             | 0.052          | 4                 | 1 | 1          | 1            |
| PL.23041                 | PL.23040    | B   | 6 A (CWC)          | 7.35Y     | 122.5        | 0.00            | 2.49          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.384             | 0.169          | 0                 | 0 | 0          | 0            |
| PL.23137                 | PL.23041    | B   | 6 A (CWC)          | 7.35Y     | 122.5        | 0.00            | 2.49          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.431             | 0.048          | 0                 | 0 | 0          | 0            |
| PL.22994                 | PL.23878    | B   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.00            | 2.29          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.062             | 0.040          | 0                 | 0 | 0          | 0            |
| PL.22993                 | PL.22994    | B   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.00            | 2.29          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.119             | 0.057          | 0                 | 0 | 0          | 0            |
| PL.23277                 | PL.22993    | B   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.00            | 2.29          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.276             | 0.157          | 0                 | 0 | 0          | 0            |
| PL.23278                 | PL.23277    | B   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.00            | 2.29          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.312             | 0.036          | 0                 | 0 | 0          | 0            |
| PL.22992                 | PL.23278    | B   | #4 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.29          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.419             | 0.107          | 0                 | 0 | 0          | 0            |
| PL.23847                 | PL.23349    | A   | #4 ACSR            | 7.37Y     | 122.9        | 0.00            | 2.15          | 23.02        | 18       | 163        | 46   | 96      | 0.01       | 0.0       | 6.925             | 0.005          | 0                 | 0 | 0          | 39           |
| PD.3355                  | PL.23847    | A   | 20T                | 7.37Y     | 122.9        | 0.00            | 2.15          | 23.02        | 0        | 163        | 46   | 96      | 0.00       | 0.0       | 6.925             | 0.005          | 0                 | 0 | 0          | 39           |
| PL.23848                 | PD.3355     | A   | #4 ACSR            | 7.36Y     | 122.7        | 0.19            | 2.34          | 23.02        | 18       | 163        | 46   | 96      | 0.23       | 0.1       | 7.110             | 0.185          | 0                 | 0 | 0          | 39           |
| PL.23051                 | PL.23848    | A   | #4 ACSR            | 7.35Y     | 122.4        | 0.23            | 2.57          | 23.02        | 18       | 163        | 46   | 96      | 0.28       | 0.2       | 7.333             | 0.223          | 0                 | 0 | 1          | 39           |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23177                 | PL.23051    | A   | #4 ACSR            | 7.34Y     | 122.3        | 0.10            | 2.67          | 21.89        | 17       | 155        | 44   | 96      | 0.12       | 0.1       | 7.438             | 0.105          | 0                 | 0 | 0          | 36           |
| PL.23178                 | PL.23177    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.16            | 2.82          | 20.95        | 16       | 148        | 42   | 96      | 0.17       | 0.1       | 7.604             | 0.166          | 0                 | 0 | 0          | 35           |
| PL.23050                 | PL.23178    | A   | #4 ACSR            | 7.33Y     | 122.1        | 0.06            | 2.88          | 20.04        | 15       | 141        | 40   | 96      | 0.06       | 0.0       | 7.671             | 0.067          | 0                 | 0 | 0          | 33           |
| PL.23054                 | PL.23050    | A   | #4 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.88          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.682             | 0.011          | 0                 | 0 | 1          | 1            |
| PL.23338                 | PL.23050    | A   | #4 ACSR            | 7.32Y     | 122.1        | 0.04            | 2.92          | 20.02        | 15       | 141        | 40   | 96      | 0.04       | 0.0       | 7.714             | 0.043          | 0                 | 0 | 2          | 32           |
| PL.23339                 | PL.23338    | A   | #4 ACSR            | 7.32Y     | 121.9        | 0.14            | 3.06          | 19.97        | 15       | 141        | 40   | 96      | 0.15       | 0.1       | 7.873             | 0.158          | 0                 | 0 | 0          | 30           |
| PL.23331                 | PL.23339    | A   | #4 ACSR            | 7.31Y     | 121.8        | 0.12            | 3.18          | 16.02        | 12       | 113        | 32   | 96      | 0.10       | 0.1       | 8.045             | 0.172          | 5                 | 1 | 2          | 22           |
| PL.23332                 | PL.23331    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.08            | 3.27          | 15.34        | 12       | 108        | 31   | 96      | 0.06       | 0.1       | 8.177             | 0.132          | 20                | 6 | 3          | 20           |
| PL.23431                 | PL.23332    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.04            | 3.30          | 11.50        | 9        | 81         | 23   | 96      | 0.02       | 0.0       | 8.252             | 0.076          | 0                 | 0 | 0          | 16           |
| PL.23060                 | PL.23431    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.30          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.280             | 0.027          | 0                 | 0 | 0          | 0            |
| PL.23329                 | PL.23431    | A   | #4 ACSR            | 7.30Y     | 121.6        | 0.06            | 3.36          | 11.50        | 9        | 81         | 23   | 96      | 0.04       | 0.0       | 8.370             | 0.118          | 2                 | 0 | 1          | 16           |
| PL.23330                 | PL.23329    | A   | #4 ACSR            | 7.30Y     | 121.6        | 0.04            | 3.40          | 11.26        | 9        | 79         | 22   | 96      | 0.02       | 0.0       | 8.446             | 0.075          | 0                 | 0 | 0          | 15           |
| PL.23436                 | PL.23330    | A   | #4 ACSR            | 7.29Y     | 121.6        | 0.05            | 3.45          | 10.13        | 8        | 71         | 20   | 96      | 0.02       | 0.0       | 8.563             | 0.118          | 17                | 5 | 4          | 13           |
| PL.23437                 | PL.23436    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.02            | 3.47          | 6.72         | 5        | 47         | 13   | 96      | 0.01       | 0.0       | 8.638             | 0.074          | 7                 | 2 | 1          | 7            |
| PL.23438                 | PL.23437    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.01            | 3.48          | 5.73         | 4        | 40         | 11   | 96      | 0.00       | 0.0       | 8.689             | 0.051          | 0                 | 0 | 0          | 6            |
| PL.23063                 | PL.23438    | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.48          | 3.06         | 1        | 21         | 6    | 96      | 0.00       | 0.0       | 8.723             | 0.034          | 21                | 6 | 2          | 2            |
| PL.23179                 | PL.23438    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.01            | 3.50          | 2.67         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 8.820             | 0.131          | 5                 | 1 | 1          | 4            |
| PL.23065                 | PL.23179    | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.50          | 1.59         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.856             | 0.036          | 11                | 3 | 2          | 2            |
| PL.72556                 | PL.23065    | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.50          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.906             | 0.050          | 0                 | 0 | 0          | 0            |
| PL.72557                 | PL.72556    | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.50          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.960             | 0.054          | 0                 | 0 | 0          | 0            |
| PL.23064                 | PL.23179    | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.50          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.838             | 0.018          | 2                 | 1 | 1          | 1            |
| PL.23062                 | PL.23437    | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.47          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.661             | 0.023          | 0                 | 0 | 0          | 0            |
| PL.23325                 | PL.23436    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.45          | 1.02         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 8.661             | 0.098          | 0                 | 0 | 0          | 2            |
| PL.23326                 | PL.23325    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.45          | 1.02         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 8.674             | 0.013          | 0                 | 0 | 0          | 2            |
| PL.23327                 | PL.23326    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.46          | 1.02         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 8.737             | 0.063          | 0                 | 0 | 1          | 2            |
| PL.23328                 | PL.23327    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.46          | 0.97         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 8.755             | 0.017          | 7                 | 2 | 1          | 1            |
| PL.23061                 | PL.23330    | A   | #4 ACSR            | 7.30Y     | 121.6        | 0.00            | 3.40          | 1.12         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 8.500             | 0.055          | 8                 | 2 | 2          | 2            |
| PL.23059                 | PL.23332    | A   | #4 ACSR            | 7.30Y     | 121.7        | 0.00            | 3.27          | 0.95         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 8.279             | 0.102          | 7                 | 2 | 1          | 1            |
| PL.23819                 | PL.23339    | A   | #4 ACSR            | 7.32Y     | 121.9        | 0.01            | 3.07          | 3.95         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 7.922             | 0.049          | 0                 | 0 | 0          | 8            |
| PD.3340                  | PL.23819    | A   | 12T                | 7.32Y     | 121.9        | 0.00            | 3.07          | 3.95         | 0        | 28         | 8    | 96      | 0.00       | 0.0       | 7.922             | 0.049          | 0                 | 0 | 0          | 8            |
| PL.23820                 | PD.3340     | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.01            | 3.08          | 3.95         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 7.997             | 0.075          | 0                 | 0 | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.23337                 | PL.23820    | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.02            | 3.10          | 3.94         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 8.109             | 0.111          | 0                 | 0 | 0          | 7            |
| PL.23275                 | PL.23337    | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.02            | 3.12          | 3.94         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 8.208             | 0.100          | 0                 | 0 | 0          | 7            |
| PL.23055                 | PL.23275    | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.02            | 3.14          | 3.94         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 8.312             | 0.104          | 0                 | 0 | 0          | 7            |
| PL.23423                 | PL.23055    | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.14          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.374             | 0.061          | 3                 | 1 | 1          | 4            |
| PL.23424                 | PL.23423    | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.15          | 0.23         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 8.517             | 0.143          | 0                 | 0 | 0          | 2            |
| PL.23058                 | PL.23424    | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.15          | 0.23         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 8.680             | 0.163          | 0                 | 0 | 0          | 2            |
| PL.23276                 | PL.23058    | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.15          | 0.23         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 8.773             | 0.094          | 2                 | 0 | 1          | 2            |
| PL.23089                 | PL.23276    | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.15          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.902             | 0.129          | 0                 | 0 | 1          | 1            |
| PL.23057                 | PL.23423    | A   | #1/0 ACSR          | 7.31Y     | 121.9        | 0.00            | 3.14          | 0.90         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 8.379             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23817                 | PL.23057    | A   | 1/0 AL URD         | 7.31Y     | 121.9        | 0.00            | 3.14          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.383             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3339                  | PL.23817    | A   | 8T                 | 7.31Y     | 121.9        | 0.00            | 3.14          | 0.90         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 8.383             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23818                 | PD.3339     | A   | 1/0 AL URD         | 7.31Y     | 121.9        | 0.00            | 3.14          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.398             | 0.015          | 6                 | 2 | 1          | 1            |
| PL.23335                 | PL.23055    | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.14          | 2.43         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 8.376             | 0.064          | 12                | 3 | 1          | 3            |
| PL.23336                 | PL.23335    | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.15          | 0.78         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.475             | 0.099          | 0                 | 0 | 0          | 2            |
| PL.23333                 | PL.23336    | A   | #4 ACSR            | 7.31Y     | 121.8        | 0.00            | 3.15          | 0.78         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.587             | 0.112          | 2                 | 0 | 1          | 2            |
| PL.23334                 | PL.23333    | A   | #4 ACSR            | 7.31Y     | 121.8        | 0.00            | 3.16          | 0.56         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 8.752             | 0.165          | 0                 | 0 | 0          | 1            |
| PL.23056                 | PL.23334    | A   | #1/0 ACSR          | 7.31Y     | 121.8        | 0.00            | 3.16          | 0.56         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 8.850             | 0.098          | 4                 | 1 | 1          | 1            |
| PL.21834                 | PL.23334    | A   | #4 ACSR            | 7.31Y     | 121.8        | 0.00            | 3.16          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.857             | 0.105          | 0                 | 0 | 0          | 0            |
| PL.23049                 | PL.23178    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.82          | 0.91         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 7.626             | 0.021          | 6                 | 2 | 2          | 2            |
| PL.23052                 | PL.23177    | A   | #4 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.94         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 7.488             | 0.050          | 0                 | 0 | 0          | 1            |
| PL.23053                 | PL.23052    | A   | #1/0 ACSR          | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.94         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 7.526             | 0.038          | 7                 | 2 | 1          | 1            |
| PL.23340                 | PL.23051    | A   | #4 ACSR            | 7.35Y     | 122.4        | 0.00            | 2.57          | 1.08         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 7.397             | 0.063          | 4                 | 1 | 1          | 2            |
| PL.23341                 | PL.23340    | A   | #4 ACSR            | 7.35Y     | 122.4        | 0.00            | 2.57          | 0.50         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 7.414             | 0.017          | 4                 | 1 | 1          | 1            |
| PL.23849                 | PL.22991    | A   | #4 ACSR            | 7.38Y     | 123.1        | 0.00            | 1.94          | 0.43         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.335             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3356                  | PL.23849    | A   | 20T                | 7.38Y     | 123.1        | 0.00            | 1.94          | 0.43         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.335             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.23850                 | PD.3356     | A   | #4 ACSR            | 7.38Y     | 123.1        | 0.00            | 1.94          | 0.43         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.350             | 0.015          | 3                 | 1 | 2          | 2            |
| PL.23825                 | PL.22991    | C   | #4 ACSR            | 7.38Y     | 123.1        | 0.00            | 1.94          | 3.41         | 3        | 24         | 7    | 96      | 0.00       | 0.0       | 6.335             | 0.005          | 0                 | 0 | 0          | 11           |
| PD.3344                  | PL.23825    | C   | 20T                | 7.38Y     | 123.1        | 0.00            | 1.94          | 3.41         | 0        | 24         | 7    | 96      | 0.00       | 0.0       | 6.335             | 0.005          | 0                 | 0 | 0          | 11           |
| PL.23826                 | PD.3344     | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.01            | 1.96          | 3.41         | 3        | 24         | 7    | 96      | 0.00       | 0.0       | 6.413             | 0.078          | 0                 | 0 | 0          | 11           |
| PL.23422                 | PL.23826    | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.02            | 1.97          | 3.38         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 6.516             | 0.102          | 0                 | 0 | 1          | 10           |
| PL.22864                 | PL.23422    | C   | #2 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.97          | 0.03         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.598             | 0.082          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23499                 | PL.23422    | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.01            | 1.98          | 3.35         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 6.574             | 0.059          | 1                 | 0 | 1          | 8            |
| PL.23500                 | PL.23499    | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 1.98          | 3.21         | 2        | 23         | 6    | 97      | 0.00       | 0.0       | 6.596             | 0.022          | 0                 | 0 | 0          | 7            |
| PL.22866                 | PL.23500    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.99          | 1.38         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 6.719             | 0.123          | 10                | 3 | 1          | 1            |
| PL.23167                 | PL.23500    | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 1.99          | 1.83         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 6.639             | 0.043          | 0                 | 0 | 0          | 6            |
| PL.22867                 | PL.23167    | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.01            | 1.99          | 1.83         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 6.701             | 0.062          | 0                 | 0 | 0          | 6            |
| PL.23637                 | PL.22867    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 2.00          | 0.75         | 1        | 5          | 2    | 93      | 0.00       | 0.0       | 6.840             | 0.139          | 2                 | 1 | 1          | 3            |
| PL.23638                 | PL.23637    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 2.00          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.858             | 0.019          | 3                 | 1 | 2          | 2            |
| PL.23135                 | PL.22867    | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.01            | 2.00          | 1.07         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 6.840             | 0.139          | 0                 | 0 | 0          | 3            |
| PL.23305                 | PL.23135    | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 2.00          | 1.07         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 6.900             | 0.060          | 0                 | 0 | 0          | 3            |
| PL.23274                 | PL.23305    | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.00            | 2.00          | 1.07         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 6.973             | 0.073          | 6                 | 2 | 2          | 3            |
| PL.23136                 | PL.23274    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 2.00          | 0.20         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.013             | 0.040          | 1                 | 0 | 1          | 1            |
| PL.22865                 | PL.23826    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.96          | 0.03         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.546             | 0.133          | 0                 | 0 | 1          | 1            |
| PL.23709                 | PL.23890    | C   | #2 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.69          | 0.89         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 5.833             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3284                  | PL.23709    | C   | 30T                | 7.40Y     | 123.3        | 0.00            | 1.69          | 0.89         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 5.833             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23710                 | PD.3284     | C   | #2 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.69          | 0.89         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 5.876             | 0.043          | 6                 | 2 | 1          | 1            |
| CP.35                    | PL.23889    | ABC | Cap (300)          | 7.41Y     | 123.4        | 0.00            | 1.58          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.724             | 0.043          | 0                 | 0 | 0          | 0            |
| PL.23701                 | PL.23523    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.45          | 4.47         | 3        | 31         | 9    | 96      | 0.00       | 0.0       | 4.628             | 0.005          | 0                 | 0 | 0          | 6            |
| PD.3280                  | PL.23701    | A   | 30T                | 7.23Y     | 120.5        | 0.00            | 4.45          | 4.47         | 0        | 31         | 9    | 96      | 0.00       | 0.0       | 4.628             | 0.005          | 0                 | 0 | 0          | 6            |
| PL.23702                 | PD.3280     | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.02            | 4.47          | 4.47         | 3        | 31         | 9    | 96      | 0.01       | 0.0       | 4.758             | 0.129          | 7                 | 2 | 2          | 6            |
| PL.23421                 | PL.23702    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.01            | 4.48          | 3.46         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 4.796             | 0.039          | 3                 | 1 | 2          | 4            |
| PL.23707                 | PL.23421    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.48          | 0.15         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.801             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3283                  | PL.23707    | A   | 20T                | 7.23Y     | 120.5        | 0.00            | 4.48          | 0.15         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.801             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23708                 | PD.3283     | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.48          | 0.15         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.844             | 0.043          | 1                 | 0 | 1          | 1            |
| PL.22856                 | PL.23708    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.48          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.923             | 0.079          | 0                 | 0 | 0          | 0            |
| PL.23265                 | PL.22856    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.48          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.012             | 0.088          | 0                 | 0 | 0          | 0            |
| PL.23266                 | PL.23265    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.48          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.145             | 0.134          | 0                 | 0 | 0          | 0            |
| PL.22855                 | PL.23421    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.48          | 2.93         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 4.848             | 0.052          | 20                | 6 | 1          | 1            |
| PL.23831                 | PL.23523    | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.45          | 1.68         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 4.628             | 0.005          | 0                 | 0 | 0          | 7            |
| PD.3347                  | PL.23831    | C   | 30T                | 7.23Y     | 120.5        | 0.00            | 4.45          | 1.68         | 0        | 12         | 3    | 97      | 0.00       | 0.0       | 4.628             | 0.005          | 0                 | 0 | 0          | 7            |
| PL.23832                 | PD.3347     | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.45          | 1.68         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 4.682             | 0.054          | 0                 | 0 | 0          | 7            |
| PL.23524                 | PL.23832    | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.46          | 1.62         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 4.733             | 0.051          | 4                 | 1 | 1          | 6            |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.23525                 | PL.23524    | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.46          | 1.10         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 4.774             | 0.041          | 5                 | 2 | 2          | 5            |
| PL.23703                 | PL.23525    | C   | 350 MCM AL         | 7.23Y     | 120.5        | 0.00            | 4.46          | 0.12         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.779             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3281                  | PL.23703    | C   | 20T                | 7.23Y     | 120.5        | 0.00            | 4.46          | 0.12         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.779             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23704                 | PD.3281     | C   | 350 MCM AL         | 7.23Y     | 120.5        | 0.00            | 4.46          | 0.12         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.789             | 0.010          | 1                 | 0 | 1          | 1            |
| PL.22854                 | PL.23525    | C   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.46          | 0.20         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.797             | 0.023          | 1                 | 0 | 2          | 2            |
| PL.22852                 | PL.23832    | C   | #1/0 ACSR          | 7.23Y     | 120.5        | 0.00            | 4.45          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.702             | 0.020          | 0                 | 0 | 0          | 1            |
| PL.23699                 | PL.22852    | C   | 1/0 AL URD         | 7.23Y     | 120.5        | 0.00            | 4.45          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.706             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3279                  | PL.23699    | C   | 20T                | 7.23Y     | 120.5        | 0.00            | 4.45          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.706             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23700                 | PD.3279     | C   | 1/0 AL URD         | 7.23Y     | 120.5        | 0.00            | 4.45          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.726             | 0.019          | 0                 | 0 | 1          | 1            |
| PL.23677                 | PL.23435    | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.48          | 0.16         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 3.448             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3268                  | PL.23677    | A   | 30T                | 7.29Y     | 121.5        | 0.00            | 3.48          | 0.16         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 3.448             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23678                 | PD.3268     | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.48          | 0.16         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 3.486             | 0.038          | 1                 | 0 | 1          | 1            |
| PL.23673                 | PL.23484    | A   | #4 ACSR            | 7.34Y     | 122.4        | 0.00            | 2.63          | 0.38         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 2.436             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3266                  | PL.23673    | A   | 30T                | 7.34Y     | 122.4        | 0.00            | 2.63          | 0.38         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 2.436             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.23674                 | PD.3266     | A   | #4 ACSR            | 7.34Y     | 122.4        | 0.00            | 2.63          | 0.38         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 2.520             | 0.084          | 3                 | 1 | 3          | 3            |
| PL.23669                 | PL.23163    | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.00            | 2.43          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 2.199             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3264                  | PL.23669    | C   | 30T                | 7.35Y     | 122.6        | 0.00            | 2.43          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 2.199             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23670                 | PD.3264     | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.00            | 2.43          | 0.29         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 2.259             | 0.060          | 2                 | 1 | 1          | 1            |
| PL.23671                 | PL.23882    | C   | 6 A (CWC)          | 7.36Y     | 122.6        | 0.00            | 2.36          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.116             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3265                  | PL.23671    | C   | 30T                | 7.36Y     | 122.6        | 0.00            | 2.36          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.116             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23672                 | PD.3265     | C   | 6 A (CWC)          | 7.36Y     | 122.6        | 0.00            | 2.36          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.196             | 0.080          | 0                 | 0 | 1          | 1            |
| PL.23665                 | PL.23450    | A   | 6 A (CWC)          | 7.37Y     | 122.8        | 0.00            | 2.19          | 2.78         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 1.925             | 0.005          | 0                 | 0 | 0          | 6            |
| PD.3262                  | PL.23665    | A   | 50T                | 7.37Y     | 122.8        | 0.00            | 2.19          | 2.78         | 0        | 20         | 6    | 96      | 0.00       | 0.0       | 1.925             | 0.005          | 0                 | 0 | 0          | 6            |
| PL.23666                 | PD.3262     | A   | 6 A (CWC)          | 7.37Y     | 122.8        | 0.02            | 2.21          | 2.78         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 2.044             | 0.119          | 0                 | 0 | 0          | 6            |
| PL.23259                 | PL.23666    | A   | 6 A (CWC)          | 7.37Y     | 122.8        | 0.01            | 2.22          | 2.78         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 2.122             | 0.078          | 0                 | 0 | 0          | 6            |
| PL.23162                 | PL.23259    | A   | 6 A (CWC)          | 7.37Y     | 122.8        | 0.01            | 2.22          | 2.23         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 2.186             | 0.064          | 0                 | 0 | 0          | 5            |
| PL.23487                 | PL.23162    | A   | #4 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.23          | 1.25         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 2.247             | 0.061          | 0                 | 0 | 2          | 4            |
| PL.23488                 | PL.23487    | A   | #4 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.23          | 1.24         | 1        | 9          | 2    | 98      | 0.00       | 0.0       | 2.287             | 0.040          | 9                 | 2 | 2          | 2            |
| PL.22846                 | PL.23162    | A   | #2 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.22          | 0.98         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 2.230             | 0.044          | 7                 | 2 | 1          | 1            |
| PL.22847                 | PL.23259    | A   | #1/0 ACSR          | 7.37Y     | 122.8        | 0.00            | 2.22          | 0.55         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 2.160             | 0.038          | 4                 | 1 | 1          | 1            |
| PL.22845                 | PL.23145    | ABC | #1/0 ACSR          | 7.39Y     | 123.1        | 0.06            | 1.87          | 21.81        | 9        | 465        | 133  | 96      | 0.19       | 0.0       | 1.641             | 0.149          | 0                 | 0 | 0          | 167          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23639                 | PL.22845    | ABC | #1/0 ACSR          | 7.39Y     | 123.1        | 0.03            | 1.90          | 21.81        | 9        | 465        | 133  | 96      | 0.09       | 0.0       | 1.712             | 0.072          | 6                 | 2 | 1          | 167          |
| PL.23640                 | PL.23639    | ABC | #1/0 ACSR          | 7.38Y     | 123.1        | 0.03            | 1.93          | 21.53        | 9        | 459        | 132  | 96      | 0.10       | 0.0       | 1.792             | 0.080          | 0                 | 0 | 0          | 166          |
| PL.23212                 | PL.23640    | ABC | #1/0 ACSR          | 7.38Y     | 123.0        | 0.04            | 1.97          | 21.53        | 9        | 458        | 131  | 96      | 0.12       | 0.0       | 1.886             | 0.094          | 0                 | 0 | 0          | 166          |
| PL.23879                 | PL.23212    | ABC | #1/0 ACSR          | 7.38Y     | 123.0        | 0.05            | 2.02          | 21.53        | 9        | 458        | 131  | 96      | 0.15       | 0.0       | 2.011             | 0.125          | 0                 | 0 | 0          | 166          |
| PD.3372                  | PL.23879    | ABC | 50L                | 7.38Y     | 123.0        | 0.00            | 2.02          | 21.53        | 43       | 458        | 131  | 96      | 0.00       | 0.0       | 2.011             | 0.125          | 0                 | 0 | 0          | 166          |
| PL.23880                 | PD.3372     | ABC | #1/0 ACSR          | 7.38Y     | 122.9        | 0.05            | 2.07          | 21.53        | 9        | 458        | 131  | 96      | 0.16       | 0.0       | 2.139             | 0.128          | 0                 | 0 | 1          | 166          |
| PL.23538                 | PL.23880    | ABC | #1/0 ACSR          | 7.37Y     | 122.9        | 0.05            | 2.11          | 21.53        | 9        | 458        | 131  | 96      | 0.14       | 0.0       | 2.257             | 0.118          | 6                 | 2 | 2          | 165          |
| PL.23539                 | PL.23538    | ABC | #1/0 ACSR          | 7.37Y     | 122.9        | 0.04            | 2.15          | 21.23        | 9        | 452        | 129  | 96      | 0.11       | 0.0       | 2.348             | 0.092          | 2                 | 1 | 1          | 163          |
| PL.23719                 | PL.23539    | C   | #1/0 ACSR          | 7.37Y     | 122.9        | 0.00            | 2.15          | 2.21         | 1        | 16         | 4    | 97      | 0.00       | 0.0       | 2.353             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3289                  | PL.23719    | C   | 20T                | 7.37Y     | 122.9        | 0.00            | 2.15          | 2.21         | 0        | 16         | 4    | 97      | 0.00       | 0.0       | 2.353             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.23720                 | PD.3289     | C   | #1/0 ACSR          | 7.37Y     | 122.9        | 0.00            | 2.15          | 2.21         | 1        | 16         | 4    | 97      | 0.00       | 0.0       | 2.385             | 0.032          | 16                | 4 | 2          | 2            |
| PL.23449                 | PL.23539    | ABC | #1/0 ACSR          | 7.37Y     | 122.8        | 0.07            | 2.22          | 20.39        | 9        | 434        | 124  | 96      | 0.20       | 0.0       | 2.531             | 0.183          | 0                 | 0 | 1          | 160          |
| PL.23448                 | PL.23449    | ABC | #1/0 ACSR          | 7.36Y     | 122.7        | 0.06            | 2.28          | 20.04        | 9        | 426        | 122  | 96      | 0.19       | 0.0       | 2.707             | 0.176          | 0                 | 0 | 0          | 158          |
| PL.22876                 | PL.23448    | ABC | #1/0 ACSR          | 7.36Y     | 122.7        | 0.00            | 2.28          | 20.04        | 9        | 426        | 121  | 96      | 0.01       | 0.0       | 2.715             | 0.008          | 0                 | 0 | 0          | 158          |
| PL.23723                 | PL.22876    | A   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.00            | 2.28          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 2.720             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3291                  | PL.23723    | A   | 20T                | 7.36Y     | 122.7        | 0.00            | 2.28          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 2.720             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.23724                 | PD.3291     | A   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.00            | 2.29          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 2.798             | 0.078          | 0                 | 0 | 1          | 2            |
| PL.22877                 | PL.23724    | A   | #2 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.29          | 0.59         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 2.845             | 0.047          | 4                 | 1 | 1          | 1            |
| PL.23146                 | PL.22876    | ABC | #1/0 ACSR          | 7.36Y     | 122.7        | 0.05            | 2.33          | 19.82        | 9        | 421        | 120  | 96      | 0.15       | 0.0       | 2.860             | 0.145          | 0                 | 0 | 0          | 156          |
| PL.23540                 | PL.23146    | ABC | #1/0 ACSR          | 7.36Y     | 122.7        | 0.01            | 2.34          | 19.51        | 8        | 414        | 118  | 96      | 0.02       | 0.0       | 2.880             | 0.019          | 0                 | 0 | 0          | 154          |
| PL.23541                 | PL.23540    | ABC | #1/0 ACSR          | 7.36Y     | 122.6        | 0.02            | 2.37          | 19.51        | 8        | 414        | 118  | 96      | 0.07       | 0.0       | 2.951             | 0.071          | 8                 | 2 | 3          | 154          |
| PL.23543                 | PL.23541    | ABC | #1/0 ACSR          | 7.36Y     | 122.6        | 0.05            | 2.41          | 19.13        | 8        | 406        | 116  | 96      | 0.13       | 0.0       | 3.088             | 0.137          | 1                 | 0 | 1          | 151          |
| PL.23544                 | PL.23543    | ABC | #1/0 ACSR          | 7.35Y     | 122.6        | 0.02            | 2.44          | 19.10        | 8        | 405        | 115  | 96      | 0.06       | 0.0       | 3.154             | 0.066          | 0                 | 0 | 1          | 150          |
| PL.23837                 | PL.23544    | A   | #4 ACSR            | 7.35Y     | 122.6        | 0.00            | 2.44          | 1.37         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 3.159             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3350                  | PL.23837    | A   | 20T                | 7.35Y     | 122.6        | 0.00            | 2.44          | 1.37         | 0        | 10         | 3    | 96      | 0.00       | 0.0       | 3.159             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23838                 | PD.3350     | A   | #4 ACSR            | 7.35Y     | 122.6        | 0.00            | 2.44          | 1.37         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 3.199             | 0.040          | 10                | 3 | 1          | 1            |
| PL.23727                 | PL.23544    | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.00            | 2.44          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 3.159             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3293                  | PL.23727    | C   | 20T                | 7.35Y     | 122.6        | 0.00            | 2.44          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 3.159             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.23728                 | PD.3293     | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.00            | 2.44          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 3.298             | 0.140          | 0                 | 0 | 0          | 2            |
| PL.22879                 | PL.23728    | C   | #4 ACSR            | 7.35Y     | 122.6        | 0.00            | 2.44          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 3.400             | 0.102          | 3                 | 1 | 1          | 1            |
| PL.22880                 | PL.23728    | C   | #4 ACSR            | 7.35Y     | 122.6        | 0.00            | 2.44          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.364             | 0.066          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23545                 | PL.23544    | ABC | #1/0 ACSR          | 7.35Y     | 122.5        | 0.03            | 2.47          | 18.48        | 8        | 392        | 112  | 96      | 0.08       | 0.0       | 3.242             | 0.088          | 1                 | 0 | 1          | 145          |
| PL.23546                 | PL.23545    | ABC | #1/0 ACSR          | 7.35Y     | 122.5        | 0.03            | 2.50          | 18.42        | 8        | 391        | 111  | 96      | 0.09       | 0.0       | 3.345             | 0.102          | 16                | 4 | 3          | 144          |
| PL.23731                 | PL.23546    | A   | #4 ACSR            | 7.35Y     | 122.5        | 0.00            | 2.50          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 3.349             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3295                  | PL.23731    | A   | 20T                | 7.35Y     | 122.5        | 0.00            | 2.50          | 0.71         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 3.349             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23732                 | PD.3295     | A   | #4 ACSR            | 7.35Y     | 122.5        | 0.00            | 2.50          | 0.71         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 3.432             | 0.083          | 5                 | 1 | 1          | 1            |
| PL.23446                 | PL.23546    | ABC | #1/0 ACSR          | 7.35Y     | 122.5        | 0.04            | 2.54          | 17.43        | 8        | 370        | 105  | 96      | 0.10       | 0.0       | 3.470             | 0.125          | 4                 | 1 | 1          | 140          |
| PL.23547                 | PL.23446    | ABC | #1/0 ACSR          | 7.35Y     | 122.5        | 0.01            | 2.55          | 17.03        | 7        | 361        | 103  | 96      | 0.02       | 0.0       | 3.500             | 0.030          | 3                 | 1 | 1          | 138          |
| PL.23548                 | PL.23547    | ABC | #1/0 ACSR          | 7.35Y     | 122.4        | 0.03            | 2.58          | 16.90        | 7        | 358        | 102  | 96      | 0.07       | 0.0       | 3.593             | 0.093          | 1                 | 0 | 1          | 137          |
| PL.23733                 | PL.23548    | C   | #4 ACSR            | 7.35Y     | 122.4        | 0.00            | 2.58          | 0.89         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 3.598             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3296                  | PL.23733    | C   | 20T                | 7.35Y     | 122.4        | 0.00            | 2.58          | 0.89         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 3.598             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.23734                 | PD.3296     | C   | #4 ACSR            | 7.35Y     | 122.4        | 0.00            | 2.58          | 0.89         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 3.679             | 0.081          | 6                 | 2 | 2          | 2            |
| PL.23439                 | PL.23548    | ABC | #1/0 ACSR          | 7.34Y     | 122.4        | 0.03            | 2.61          | 16.57        | 7        | 351        | 100  | 96      | 0.07       | 0.0       | 3.695             | 0.101          | 2                 | 1 | 1          | 134          |
| PL.23729                 | PL.23439    | A   | #4 ACSR            | 7.34Y     | 122.4        | 0.00            | 2.61          | 3.90         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 3.699             | 0.005          | 0                 | 0 | 0          | 10           |
| PD.3294                  | PL.23729    | A   | 20T                | 7.34Y     | 122.4        | 0.00            | 2.61          | 3.90         | 0        | 28         | 8    | 96      | 0.00       | 0.0       | 3.699             | 0.005          | 0                 | 0 | 0          | 10           |
| PL.23730                 | PD.3294     | A   | #4 ACSR            | 7.34Y     | 122.4        | 0.02            | 2.63          | 3.90         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 3.827             | 0.128          | 0                 | 0 | 0          | 10           |
| PL.23215                 | PL.23730    | A   | #4 ACSR            | 7.34Y     | 122.4        | 0.02            | 2.65          | 3.90         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 3.921             | 0.095          | 0                 | 0 | 0          | 10           |
| PL.22882                 | PL.23215    | A   | #4 ACSR            | 7.34Y     | 122.3        | 0.02            | 2.67          | 3.90         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 4.043             | 0.121          | 0                 | 0 | 0          | 10           |
| PL.22883                 | PL.22882    | A   | #4 ACSR            | 7.34Y     | 122.3        | 0.02            | 2.69          | 3.90         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 4.144             | 0.102          | 0                 | 0 | 0          | 10           |
| PL.23216                 | PL.22883    | A   | #4 ACSR            | 7.34Y     | 122.3        | 0.03            | 2.71          | 3.90         | 3        | 28         | 8    | 96      | 0.01       | 0.0       | 4.303             | 0.159          | 0                 | 0 | 0          | 10           |
| PL.23542                 | PL.23216    | A   | #4 ACSR            | 7.34Y     | 122.3        | 0.02            | 2.73          | 3.90         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 4.422             | 0.118          | 0                 | 0 | 1          | 10           |
| PL.23554                 | PL.23542    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.03            | 2.76          | 3.89         | 3        | 27         | 8    | 96      | 0.01       | 0.0       | 4.582             | 0.160          | 4                 | 1 | 1          | 9            |
| PL.23555                 | PL.23554    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.01            | 2.77          | 3.38         | 3        | 24         | 7    | 96      | 0.00       | 0.0       | 4.669             | 0.087          | 0                 | 0 | 0          | 8            |
| PL.23217                 | PL.23555    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.02            | 2.79          | 3.38         | 3        | 24         | 7    | 96      | 0.00       | 0.0       | 4.789             | 0.120          | 0                 | 0 | 0          | 8            |
| PL.23147                 | PL.23217    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.01            | 2.80          | 2.78         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 4.887             | 0.098          | 0                 | 0 | 0          | 7            |
| PL.23218                 | PL.23147    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.01            | 2.82          | 2.78         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 5.006             | 0.119          | 0                 | 0 | 0          | 7            |
| PL.23148                 | PL.23218    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.82          | 1.22         | 1        | 9          | 2    | 98      | 0.00       | 0.0       | 5.034             | 0.029          | 0                 | 0 | 0          | 4            |
| PL.22889                 | PL.23148    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.82          | 0.94         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 5.091             | 0.057          | 0                 | 0 | 0          | 3            |
| PL.22891                 | PL.22889    | A   | #2 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.82          | 0.94         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 5.173             | 0.082          | 0                 | 0 | 0          | 3            |
| PL.23149                 | PL.22891    | A   | #2 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.83          | 0.60         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 5.355             | 0.182          | 0                 | 0 | 0          | 2            |
| PL.22894                 | PL.23149    | A   | #2 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.83          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.524             | 0.170          | 0                 | 0 | 1          | 1            |
| PL.22893                 | PL.23149    | A   | #2 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.83          | 0.55         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 5.395             | 0.040          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.22895                 | PL.22893    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.83          | 0.55         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 5.427             | 0.032          | 4                 | 1 | 1          | 1            |
| PL.22892                 | PL.22891    | A   | #2 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.82          | 0.33         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 5.276             | 0.103          | 2                 | 1 | 1          | 1            |
| PL.22890                 | PL.23148    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.82          | 0.28         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 5.110             | 0.075          | 0                 | 0 | 0          | 1            |
| PL.23222                 | PL.22890    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.82          | 0.28         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 5.253             | 0.144          | 2                 | 1 | 1          | 1            |
| PL.22885                 | PL.23218    | A   | #4 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.82          | 1.56         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 5.026             | 0.020          | 0                 | 0 | 0          | 3            |
| PL.23741                 | PL.22885    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.82          | 1.10         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 5.069             | 0.043          | 0                 | 0 | 0          | 2            |
| PD.3300                  | PL.23741    | A   | 12T                | 7.33Y     | 122.2        | 0.00            | 2.82          | 1.10         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 5.069             | 0.043          | 0                 | 0 | 0          | 2            |
| PL.23742                 | PD.3300     | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.82          | 1.10         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 5.176             | 0.107          | 0                 | 0 | 0          | 2            |
| PL.22888                 | PL.23742    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.83          | 1.10         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 5.299             | 0.123          | 0                 | 0 | 0          | 2            |
| PL.23219                 | PL.22888    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.83          | 1.10         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 5.389             | 0.090          | 0                 | 0 | 0          | 2            |
| PL.23220                 | PL.23219    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.83          | 1.10         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 5.475             | 0.086          | 0                 | 0 | 0          | 2            |
| PL.23556                 | PL.23220    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.83          | 1.10         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 5.604             | 0.129          | 0                 | 0 | 1          | 2            |
| PL.23557                 | PL.23556    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.84          | 1.09         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 5.741             | 0.138          | 0                 | 0 | 0          | 1            |
| PL.23221                 | PL.23557    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.84          | 1.09         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 5.856             | 0.114          | 8                 | 2 | 1          | 1            |
| PL.22886                 | PL.22885    | A   | #2 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.82          | 0.46         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 5.095             | 0.069          | 3                 | 1 | 1          | 1            |
| PL.22887                 | PL.22885    | A   | #2 ACSR            | 7.33Y     | 122.2        | 0.00            | 2.82          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.076             | 0.050          | 0                 | 0 | 0          | 0            |
| PL.22884                 | PL.23217    | A   | #1/0 ACSR          | 7.33Y     | 122.2        | 0.00            | 2.79          | 0.60         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.808             | 0.019          | 4                 | 1 | 1          | 1            |
| PL.23549                 | PL.23439    | ABC | #1/0 ACSR          | 7.34Y     | 122.4        | 0.02            | 2.63          | 15.19        | 7        | 322        | 92   | 96      | 0.05       | 0.0       | 3.782             | 0.088          | 16                | 5 | 2          | 123          |
| PL.23550                 | PL.23549    | ABC | #1/0 ACSR          | 7.34Y     | 122.4        | 0.02            | 2.65          | 14.41        | 6        | 305        | 87   | 96      | 0.04       | 0.0       | 3.852             | 0.069          | 13                | 4 | 2          | 121          |
| PL.23551                 | PL.23550    | ABC | #1/0 ACSR          | 7.34Y     | 122.3        | 0.02            | 2.67          | 13.81        | 6        | 293        | 83   | 96      | 0.04       | 0.0       | 3.927             | 0.075          | 0                 | 0 | 0          | 119          |
| PL.23737                 | PL.23551    | C   | #2 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.93         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 3.932             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3298                  | PL.23737    | C   | 20T                | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.93         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 3.932             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.23738                 | PD.3298     | C   | #2 ACSR            | 7.34Y     | 122.3        | 0.00            | 2.67          | 0.93         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 3.955             | 0.023          | 7                 | 2 | 1          | 1            |
| PL.23432                 | PL.23551    | ABC | #1/0 ACSR          | 7.34Y     | 122.3        | 0.01            | 2.67          | 13.50        | 6        | 286        | 81   | 96      | 0.01       | 0.0       | 3.955             | 0.028          | 4                 | 1 | 1          | 118          |
| PL.23433                 | PL.23432    | ABC | #1/0 ACSR          | 7.34Y     | 122.3        | 0.01            | 2.68          | 7.45         | 3        | 158        | 45   | 96      | 0.01       | 0.0       | 4.020             | 0.064          | 3                 | 1 | 1          | 62           |
| PL.23871                 | PL.23433    | A   | 6 A (CWC)          | 7.34Y     | 122.3        | 0.00            | 2.69          | 21.92        | 16       | 155        | 44   | 96      | 0.00       | 0.0       | 4.022             | 0.003          | 0                 | 0 | 0          | 61           |
| PD.3368                  | PL.23871    | A   | 35L                | 7.34Y     | 122.3        | 0.00            | 2.69          | 21.92        | 63       | 155        | 44   | 96      | 0.00       | 0.0       | 4.022             | 0.003          | 0                 | 0 | 0          | 61           |
| PL.23872                 | PD.3368     | A   | 6 A (CWC)          | 7.34Y     | 122.3        | 0.06            | 2.75          | 21.92        | 16       | 155        | 44   | 96      | 0.07       | 0.0       | 4.084             | 0.061          | 8                 | 2 | 1          | 61           |
| PL.23552                 | PL.23872    | A   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.06            | 2.80          | 20.72        | 15       | 146        | 42   | 96      | 0.06       | 0.0       | 4.148             | 0.065          | 9                 | 2 | 1          | 60           |
| PL.23553                 | PL.23552    | A   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.03            | 2.83          | 19.48        | 14       | 137        | 39   | 96      | 0.03       | 0.0       | 4.179             | 0.030          | 0                 | 0 | 0          | 59           |
| PL.22909                 | PL.23553    | A   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.00            | 2.83          | 0.95         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 4.220             | 0.041          | 7                 | 2 | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23558                 | PL.23553    | A   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.02            | 2.85          | 18.53        | 13       | 131        | 37   | 96      | 0.02       | 0.0       | 4.201             | 0.022          | 5                 | 1 | 1          | 57           |
| PL.23559                 | PL.23558    | A   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.09            | 2.94          | 17.86        | 13       | 126        | 36   | 96      | 0.08       | 0.1       | 4.311             | 0.110          | 3                 | 1 | 1          | 56           |
| PL.23434                 | PL.23559    | A   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.08            | 3.02          | 14.97        | 11       | 105        | 30   | 96      | 0.06       | 0.1       | 4.425             | 0.115          | 3                 | 1 | 1          | 53           |
| PL.22911                 | PL.23434    | A   | 6 A (CWC)          | 7.31Y     | 121.9        | 0.09            | 3.11          | 14.57        | 10       | 103        | 29   | 96      | 0.07       | 0.1       | 4.561             | 0.135          | 0                 | 0 | 0          | 51           |
| PL.23560                 | PL.22911    | A   | 6 A (CWC)          | 7.31Y     | 121.9        | 0.04            | 3.15          | 14.30        | 10       | 101        | 29   | 96      | 0.03       | 0.0       | 4.622             | 0.061          | 2                 | 1 | 1          | 50           |
| PL.23561                 | PL.23560    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.03            | 3.18          | 14.04        | 10       | 99         | 28   | 96      | 0.02       | 0.0       | 4.672             | 0.050          | 0                 | 0 | 0          | 49           |
| PL.23154                 | PL.23561    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.00            | 3.18          | 0.66         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 4.741             | 0.069          | 0                 | 0 | 1          | 2            |
| PL.22913                 | PL.23154    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.01            | 3.19          | 0.66         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 4.915             | 0.174          | 0                 | 0 | 0          | 1            |
| PL.23238                 | PL.22913    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.00            | 3.19          | 0.66         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 5.023             | 0.108          | 0                 | 0 | 0          | 1            |
| PL.22918                 | PL.23238    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.00            | 3.19          | 0.66         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 5.121             | 0.098          | 0                 | 0 | 0          | 1            |
| PL.23239                 | PL.22918    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.00            | 3.20          | 0.66         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 5.264             | 0.143          | 0                 | 0 | 0          | 1            |
| PL.22917                 | PL.23239    | A   | #4 ACSR            | 7.31Y     | 121.8        | 0.00            | 3.20          | 0.66         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 5.452             | 0.187          | 5                 | 1 | 1          | 1            |
| PL.22914                 | PL.23561    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.07            | 3.25          | 13.38        | 10       | 94         | 27   | 96      | 0.05       | 0.1       | 4.793             | 0.121          | 0                 | 0 | 0          | 47           |
| PL.23240                 | PL.22914    | A   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.10            | 3.35          | 13.38        | 10       | 94         | 27   | 96      | 0.07       | 0.1       | 4.949             | 0.156          | 0                 | 0 | 0          | 47           |
| PL.23155                 | PL.23240    | A   | 6 A (CWC)          | 7.30Y     | 121.6        | 0.02            | 3.37          | 12.73        | 9        | 89         | 25   | 96      | 0.01       | 0.0       | 4.983             | 0.033          | 0                 | 0 | 0          | 46           |
| PL.22916                 | PL.23155    | A   | 6 A (CWC)          | 7.29Y     | 121.6        | 0.06            | 3.42          | 12.73        | 9        | 89         | 25   | 96      | 0.04       | 0.0       | 5.078             | 0.096          | 0                 | 0 | 0          | 46           |
| PL.23241                 | PL.22916    | A   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.08            | 3.50          | 12.73        | 9        | 89         | 25   | 96      | 0.05       | 0.1       | 5.213             | 0.135          | 0                 | 0 | 0          | 46           |
| PL.22919                 | PL.23241    | A   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.02            | 3.53          | 12.73        | 9        | 89         | 25   | 96      | 0.02       | 0.0       | 5.253             | 0.040          | 0                 | 0 | 0          | 46           |
| PL.23242                 | PL.22919    | A   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.13            | 3.66          | 12.73        | 9        | 89         | 25   | 96      | 0.09       | 0.1       | 5.476             | 0.223          | 0                 | 0 | 0          | 46           |
| PL.22922                 | PL.23242    | A   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.06            | 3.71          | 12.48        | 9        | 87         | 25   | 96      | 0.04       | 0.0       | 5.572             | 0.096          | 0                 | 0 | 0          | 45           |
| PL.23243                 | PL.22922    | A   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.05            | 3.77          | 12.48        | 9        | 87         | 25   | 96      | 0.03       | 0.0       | 5.666             | 0.094          | 2                 | 0 | 3          | 45           |
| PL.23444                 | PL.23243    | A   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.00            | 3.77          | 0.80         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 5.819             | 0.153          | 2                 | 1 | 4          | 8            |
| PL.23564                 | PL.23444    | A   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.00            | 3.77          | 0.08         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 5.900             | 0.081          | 0                 | 0 | 0          | 2            |
| PL.23565                 | PL.23564    | A   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.00            | 3.77          | 0.08         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 5.933             | 0.033          | 0                 | 0 | 0          | 2            |
| PL.22920                 | PL.23565    | A   | #4 ACSR            | 7.27Y     | 121.2        | 0.00            | 3.77          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.017             | 0.084          | 0                 | 0 | 1          | 1            |
| PL.23156                 | PL.23565    | A   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.00            | 3.77          | 0.08         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.070             | 0.137          | 0                 | 0 | 0          | 1            |
| PL.23244                 | PL.23156    | A   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.00            | 3.77          | 0.08         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.143             | 0.073          | 1                 | 0 | 1          | 1            |
| PL.23570                 | PL.23244    | A   | #4 ACSR            | 7.27Y     | 121.2        | 0.00            | 3.77          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.192             | 0.049          | 0                 | 0 | 0          | 0            |
| PL.23571                 | PL.23570    | A   | #4 ACSR            | 7.27Y     | 121.2        | 0.00            | 3.77          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.332             | 0.140          | 0                 | 0 | 0          | 0            |
| PL.23245                 | PL.23571    | A   | #4 ACSR            | 7.27Y     | 121.2        | 0.00            | 3.77          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.459             | 0.127          | 0                 | 0 | 0          | 0            |
| PL.23445                 | PL.23444    | A   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.00            | 3.77          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 5.897             | 0.078          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.22921                 | PL.23243    | A   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.10            | 3.86          | 11.42        | 8        | 80         | 23   | 96      | 0.06       | 0.1       | 5.850             | 0.184          | 0                 | 0 | 0          | 34           |
| PL.23246                 | PL.22921    | A   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.05            | 3.91          | 11.42        | 8        | 80         | 23   | 96      | 0.03       | 0.0       | 5.949             | 0.099          | 0                 | 0 | 0          | 34           |
| PL.23247                 | PL.23246    | A   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.05            | 3.96          | 11.42        | 8        | 80         | 23   | 96      | 0.03       | 0.0       | 6.047             | 0.098          | 0                 | 0 | 0          | 34           |
| PL.23157                 | PL.23247    | A   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.04            | 4.01          | 11.42        | 8        | 80         | 23   | 96      | 0.03       | 0.0       | 6.126             | 0.079          | 0                 | 0 | 0          | 32           |
| PL.22925                 | PL.23157    | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 4.01          | 0.53         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 6.222             | 0.097          | 4                 | 1 | 2          | 2            |
| PL.22926                 | PL.23157    | A   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.12            | 4.12          | 10.89        | 8        | 76         | 22   | 96      | 0.07       | 0.1       | 6.358             | 0.232          | 0                 | 0 | 0          | 30           |
| PL.23745                 | PL.22926    | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.12          | 1.14         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 6.363             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3302                  | PL.23745    | A   | 15T                | 7.25Y     | 120.9        | 0.00            | 4.12          | 1.14         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 6.363             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.23746                 | PD.3302     | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 1.14         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 6.481             | 0.118          | 5                 | 1 | 1          | 3            |
| PL.23566                 | PL.23746    | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.42         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.572             | 0.091          | 1                 | 0 | 1          | 2            |
| PL.23743                 | PL.23566    | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.576             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3301                  | PL.23743    | A   | 10T                | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.576             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23744                 | PD.3301     | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.696             | 0.120          | 0                 | 0 | 0          | 1            |
| PL.23248                 | PL.23744    | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.841             | 0.145          | 0                 | 0 | 0          | 1            |
| PL.23249                 | PL.23248    | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.980             | 0.139          | 0                 | 0 | 0          | 1            |
| PL.22928                 | PL.23249    | A   | #1/0 ACSR          | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.051             | 0.071          | 2                 | 1 | 1          | 1            |
| PL.22927                 | PL.22926    | A   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.04            | 4.17          | 9.75         | 7        | 68         | 19   | 96      | 0.02       | 0.0       | 6.460             | 0.102          | 5                 | 1 | 1          | 27           |
| PL.22929                 | PL.22927    | A   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.04            | 4.20          | 7.94         | 6        | 55         | 16   | 96      | 0.02       | 0.0       | 6.558             | 0.099          | 0                 | 0 | 0          | 24           |
| PL.23250                 | PL.22929    | A   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.05            | 4.25          | 7.94         | 6        | 55         | 16   | 96      | 0.02       | 0.0       | 6.682             | 0.124          | 0                 | 0 | 0          | 24           |
| PL.22931                 | PL.23250    | A   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.25          | 7.94         | 6        | 55         | 16   | 96      | 0.00       | 0.0       | 6.693             | 0.011          | 0                 | 0 | 0          | 24           |
| PL.22932                 | PL.22931    | A   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.25          | 0.51         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 6.729             | 0.036          | 4                 | 1 | 2          | 2            |
| PL.23158                 | PL.22931    | A   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.05            | 4.31          | 7.43         | 5        | 52         | 15   | 96      | 0.02       | 0.0       | 6.853             | 0.160          | 0                 | 0 | 1          | 22           |
| PL.22933                 | PL.23158    | A   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.04            | 4.35          | 7.13         | 5        | 50         | 14   | 96      | 0.02       | 0.0       | 6.990             | 0.137          | 0                 | 0 | 0          | 19           |
| PL.22934                 | PL.22933    | A   | 6 A (CWC)          | 7.24Y     | 120.6        | 0.02            | 4.37          | 7.13         | 5        | 50         | 14   | 96      | 0.01       | 0.0       | 7.052             | 0.061          | 7                 | 2 | 3          | 19           |
| PL.22935                 | PL.22934    | A   | #4 ACSR            | 7.24Y     | 120.6        | 0.00            | 4.37          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.063             | 0.011          | 0                 | 0 | 0          | 0            |
| PL.22936                 | PL.22934    | A   | 6 A (CWC)          | 7.24Y     | 120.6        | 0.02            | 4.39          | 6.10         | 4        | 42         | 12   | 96      | 0.01       | 0.0       | 7.135             | 0.083          | 0                 | 0 | 0          | 16           |
| PL.23572                 | PL.22936    | A   | 6 A (CWC)          | 7.23Y     | 120.6        | 0.04            | 4.43          | 6.10         | 4        | 42         | 12   | 96      | 0.01       | 0.0       | 7.284             | 0.149          | 0                 | 0 | 0          | 16           |
| PL.23573                 | PL.23572    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.02            | 4.46          | 6.10         | 4        | 42         | 12   | 96      | 0.01       | 0.0       | 7.374             | 0.091          | 2                 | 1 | 1          | 16           |
| PL.23574                 | PL.23573    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.46          | 0.49         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 7.508             | 0.134          | 3                 | 1 | 1          | 1            |
| PL.23575                 | PL.23574    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.46          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.595             | 0.086          | 0                 | 0 | 0          | 0            |
| PL.23875                 | PL.23573    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.01            | 4.47          | 5.32         | 4        | 37         | 10   | 97      | 0.00       | 0.0       | 7.413             | 0.038          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PD.3370                  | PL.23875    | A   | 20T                | 7.23Y     | 120.5        | 0.00            | 4.47          | 5.32         | 0        | 37         | 10   | 97      | 0.00       | 0.0       | 7.413             | 0.038          | 0                 | 0 | 0          | 14           |
| PL.23876                 | PD.3370     | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.05            | 4.51          | 5.32         | 4        | 37         | 10   | 97      | 0.01       | 0.0       | 7.599             | 0.186          | 0                 | 0 | 0          | 14           |
| PL.23576                 | PL.23876    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.03            | 4.55          | 5.32         | 4        | 37         | 10   | 97      | 0.01       | 0.0       | 7.739             | 0.140          | 0                 | 0 | 0          | 14           |
| PL.23577                 | PL.23576    | A   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.02            | 4.56          | 5.32         | 4        | 37         | 10   | 97      | 0.00       | 0.0       | 7.804             | 0.065          | 0                 | 0 | 0          | 14           |
| PL.22937                 | PL.23577    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.57          | 1.55         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 7.865             | 0.061          | 0                 | 0 | 0          | 2            |
| PL.23159                 | PL.22937    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.57          | 0.43         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 7.906             | 0.041          | 3                 | 1 | 1          | 1            |
| PL.22938                 | PL.22937    | A   | #1/0 ACSR          | 7.23Y     | 120.4        | 0.00            | 4.57          | 1.12         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 7.886             | 0.021          | 8                 | 2 | 1          | 1            |
| PL.23429                 | PL.23577    | A   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.01            | 4.57          | 3.77         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 7.856             | 0.052          | 0                 | 0 | 1          | 12           |
| PL.22939                 | PL.23429    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.898             | 0.042          | 0                 | 0 | 0          | 0            |
| PL.23430                 | PL.23429    | A   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.03            | 4.60          | 3.77         | 3        | 26         | 7    | 97      | 0.01       | 0.0       | 8.002             | 0.146          | 0                 | 0 | 0          | 11           |
| PL.22940                 | PL.23430    | A   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.02            | 4.62          | 3.77         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 8.134             | 0.132          | 0                 | 0 | 0          | 11           |
| PL.23251                 | PL.22940    | A   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.01            | 4.63          | 3.77         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 8.199             | 0.066          | 0                 | 0 | 0          | 11           |
| PL.23621                 | PL.23251    | A   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.64          | 3.77         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 8.229             | 0.030          | 0                 | 0 | 0          | 11           |
| PL.23622                 | PL.23621    | A   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.64          | 3.77         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 8.256             | 0.027          | 0                 | 0 | 0          | 11           |
| PL.22941                 | PL.23622    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.01            | 4.65          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.354             | 0.098          | 0                 | 0 | 0          | 9            |
| PL.22942                 | PL.22941    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.01            | 4.66          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.443             | 0.089          | 0                 | 0 | 0          | 9            |
| PL.22944                 | PL.22942    | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.01            | 4.67          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.549             | 0.106          | 0                 | 0 | 0          | 9            |
| PL.23619                 | PL.22944    | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.02            | 4.69          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.719             | 0.170          | 0                 | 0 | 0          | 9            |
| PL.23620                 | PL.23619    | A   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.01            | 4.70          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.820             | 0.101          | 0                 | 0 | 0          | 9            |
| PL.23807                 | PL.23620    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.02            | 4.71          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.997             | 0.177          | 0                 | 0 | 0          | 9            |
| PD.3334                  | PL.23807    | A   | 12T                | 7.22Y     | 120.3        | 0.00            | 4.71          | 2.14         | 0        | 15         | 4    | 97      | 0.00       | 0.0       | 8.997             | 0.177          | 0                 | 0 | 0          | 9            |
| PL.23808                 | PD.3334     | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.01            | 4.72          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 9.121             | 0.124          | 0                 | 0 | 0          | 9            |
| PL.23253                 | PL.23808    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.01            | 4.73          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 9.207             | 0.086          | 0                 | 0 | 0          | 9            |
| PL.22948                 | PL.23253    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.02            | 4.75          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 9.417             | 0.210          | 0                 | 0 | 0          | 9            |
| PL.23128                 | PL.22948    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.01            | 4.76          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 9.488             | 0.071          | 0                 | 0 | 0          | 9            |
| PL.23138                 | PL.23128    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.01            | 4.77          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 9.625             | 0.136          | 0                 | 0 | 0          | 9            |
| PL.23633                 | PL.23138    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.01            | 4.79          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 9.771             | 0.147          | 0                 | 0 | 0          | 9            |
| PL.23634                 | PL.23633    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.01            | 4.80          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 9.880             | 0.109          | 0                 | 0 | 0          | 9            |
| PL.23254                 | PL.23634    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.01            | 4.81          | 2.14         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 10.026            | 0.146          | 0                 | 0 | 0          | 9            |
| PL.23417                 | PL.23254    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 10.155            | 0.130          | 0                 | 0 | 0          | 5            |
| PL.23132                 | PL.23417    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 10.260            | 0.104          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23827                 | PL.23132    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 10.373            | 0.113          | 0                 | 0 | 0          | 5            |
| PD.3345                  | PL.23827    | A   | 8T                 | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 10.373            | 0.113          | 0                 | 0 | 0          | 5            |
| PL.23828                 | PD.3345     | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 10.532            | 0.159          | 0                 | 0 | 0          | 5            |
| PL.23420                 | PL.23828    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 10.721            | 0.189          | 0                 | 0 | 0          | 5            |
| PL.23257                 | PL.23420    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 10.882            | 0.161          | 0                 | 0 | 1          | 5            |
| PL.23133                 | PL.23257    | A   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.08         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 11.010            | 0.128          | 0                 | 0 | 0          | 4            |
| PL.23258                 | PL.23133    | A   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.08         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 11.089            | 0.079          | 0                 | 0 | 0          | 4            |
| PL.23161                 | PL.23258    | A   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.131            | 0.042          | 0                 | 0 | 1          | 1            |
| PL.23631                 | PL.23258    | A   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.118            | 0.029          | 0                 | 0 | 2          | 3            |
| PL.23632                 | PL.23631    | A   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 11.286            | 0.169          | 0                 | 0 | 1          | 1            |
| PL.23418                 | PL.23417    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.00            | 4.81          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.205            | 0.050          | 0                 | 0 | 0          | 0            |
| PL.23129                 | PL.23254    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.01            | 4.82          | 2.05         | 2        | 14         | 4    | 96      | 0.00       | 0.0       | 10.123            | 0.097          | 0                 | 0 | 0          | 4            |
| PL.23130                 | PL.23129    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.01            | 4.83          | 2.05         | 2        | 14         | 4    | 96      | 0.00       | 0.0       | 10.190            | 0.067          | 0                 | 0 | 0          | 4            |
| PL.23131                 | PL.23130    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.00            | 4.83          | 0.60         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 10.246            | 0.056          | 4                 | 1 | 1          | 1            |
| PL.23411                 | PL.23130    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.01            | 4.84          | 1.45         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 10.372            | 0.182          | 0                 | 0 | 0          | 3            |
| PL.23635                 | PL.23411    | A   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.84          | 0.61         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 10.435            | 0.063          | 1                 | 0 | 1          | 2            |
| PL.23636                 | PL.23635    | A   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.84          | 0.47         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.566            | 0.131          | 0                 | 0 | 0          | 1            |
| PL.23255                 | PL.23636    | A   | #1/0 ACSR          | 7.21Y     | 120.2        | 0.00            | 4.84          | 0.47         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.646            | 0.080          | 3                 | 1 | 1          | 1            |
| PL.23412                 | PL.23411    | A   | #4 ACSR            | 7.21Y     | 120.2        | 0.00            | 4.84          | 0.84         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 10.402            | 0.030          | 6                 | 2 | 1          | 1            |
| PL.22943                 | PL.22941    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.65          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.425             | 0.071          | 0                 | 0 | 0          | 0            |
| PL.23160                 | PL.23622    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.01            | 4.65          | 1.63         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.408             | 0.152          | 0                 | 0 | 0          | 2            |
| PL.23252                 | PL.23160    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.01            | 4.66          | 1.63         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.532             | 0.124          | 0                 | 0 | 0          | 2            |
| PL.23624                 | PL.23252    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.01            | 4.67          | 1.63         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.616             | 0.085          | 0                 | 0 | 0          | 2            |
| PL.23623                 | PL.23624    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.01            | 4.67          | 1.63         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.712             | 0.096          | 0                 | 0 | 0          | 2            |
| PL.22945                 | PL.23623    | A   | #1/0 ACSR          | 7.22Y     | 120.3        | 0.00            | 4.67          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.742             | 0.030          | 11                | 3 | 1          | 1            |
| PL.22947                 | PL.23623    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.67          | 0.11         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.791             | 0.079          | 1                 | 0 | 1          | 1            |
| PL.22946                 | PL.23623    | A   | #1/0 ACSR          | 7.22Y     | 120.3        | 0.00            | 4.67          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.826             | 0.114          | 0                 | 0 | 0          | 0            |
| PL.23568                 | PL.23158    | A   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.31          | 0.30         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.898             | 0.045          | 0                 | 0 | 0          | 2            |
| PL.23569                 | PL.23568    | A   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.31          | 0.30         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.984             | 0.086          | 0                 | 0 | 1          | 2            |
| PL.23567                 | PL.23569    | A   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.31          | 0.28         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.118             | 0.134          | 2                 | 1 | 1          | 1            |
| PL.22930                 | PL.22927    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.17          | 1.09         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 6.597             | 0.137          | 8                 | 2 | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.22924                 | PL.23247    | A   | #1/0 ACSR          | 7.26Y     | 121.0        | 0.00            | 3.96          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.086             | 0.039          | 0                 | 0 | 2          | 2            |
| PL.22923                 | PL.23242    | A   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.00            | 3.66          | 0.25         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 5.576             | 0.100          | 2                 | 0 | 1          | 1            |
| PL.22915                 | PL.23240    | A   | #1/0 ACSR          | 7.30Y     | 121.7        | 0.00            | 3.35          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 4.996             | 0.047          | 5                 | 1 | 1          | 1            |
| PL.22912                 | PL.22911    | A   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.11          | 0.27         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 4.653             | 0.092          | 2                 | 1 | 1          | 1            |
| PL.23562                 | PL.23434    | A   | #4 ACSR            | 7.32Y     | 122.0        | 0.00            | 3.02          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.485             | 0.059          | 0                 | 0 | 1          | 1            |
| PL.23563                 | PL.23562    | A   | #4 ACSR            | 7.32Y     | 122.0        | 0.00            | 3.02          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.515             | 0.031          | 0                 | 0 | 0          | 0            |
| PL.22910                 | PL.23559    | A   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.94          | 2.43         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 4.375             | 0.065          | 17                | 5 | 2          | 2            |
| PL.23873                 | PL.23432    | C   | 6 A (CWC)          | 7.34Y     | 122.3        | 0.00            | 2.68          | 17.59        | 13       | 124        | 35   | 96      | 0.00       | 0.0       | 3.958             | 0.003          | 0                 | 0 | 0          | 55           |
| PD.3369                  | PL.23873    | C   | 35L                | 7.34Y     | 122.3        | 0.00            | 2.68          | 17.59        | 50       | 124        | 35   | 96      | 0.00       | 0.0       | 3.958             | 0.003          | 0                 | 0 | 0          | 55           |
| PL.23874                 | PD.3369     | C   | 6 A (CWC)          | 7.33Y     | 122.2        | 0.13            | 2.80          | 17.59        | 13       | 124        | 35   | 96      | 0.12       | 0.1       | 4.113             | 0.155          | 0                 | 0 | 1          | 55           |
| PL.22896                 | PL.23874    | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.08            | 2.89          | 17.54        | 13       | 124        | 35   | 96      | 0.08       | 0.1       | 4.218             | 0.104          | 0                 | 0 | 1          | 54           |
| PL.22897                 | PL.22896    | C   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.05            | 2.93          | 14.80        | 11       | 104        | 30   | 96      | 0.04       | 0.0       | 4.290             | 0.072          | 9                 | 2 | 1          | 48           |
| PL.23735                 | PL.22897    | C   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.93          | 0.63         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.294             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3297                  | PL.23735    | C   | 15T                | 7.32Y     | 122.1        | 0.00            | 2.93          | 0.63         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.294             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.23736                 | PD.3297     | C   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.93          | 0.63         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.354             | 0.060          | 4                 | 1 | 1          | 1            |
| PL.22898                 | PL.22897    | C   | #1/0 ACSR          | 7.32Y     | 122.1        | 0.00            | 2.93          | 0.53         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.320             | 0.030          | 4                 | 1 | 1          | 1            |
| PL.22899                 | PL.22897    | C   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.10            | 3.03          | 12.41        | 9        | 87         | 25   | 96      | 0.06       | 0.1       | 4.461             | 0.171          | 3                 | 1 | 1          | 45           |
| PL.23581                 | PL.22899    | C   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.01            | 3.04          | 11.96        | 9        | 84         | 24   | 96      | 0.01       | 0.0       | 4.482             | 0.021          | 1                 | 0 | 1          | 44           |
| PL.23582                 | PL.23581    | C   | 6 A (CWC)          | 7.32Y     | 121.9        | 0.04            | 3.07          | 11.83        | 8        | 83         | 24   | 96      | 0.02       | 0.0       | 4.552             | 0.070          | 12                | 3 | 1          | 43           |
| PL.23583                 | PL.23582    | C   | 6 A (CWC)          | 7.31Y     | 121.9        | 0.02            | 3.10          | 10.11        | 7        | 71         | 20   | 96      | 0.01       | 0.0       | 4.602             | 0.049          | 3                 | 1 | 1          | 42           |
| PL.23753                 | PL.23583    | C   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.10          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.606             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3306                  | PL.23753    | C   | 15T                | 7.31Y     | 121.9        | 0.00            | 3.10          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.606             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23754                 | PD.3306     | C   | #4 ACSR            | 7.31Y     | 121.9        | 0.00            | 3.10          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.668             | 0.062          | 0                 | 0 | 1          | 1            |
| PL.23425                 | PL.23583    | C   | 6 A (CWC)          | 7.31Y     | 121.9        | 0.01            | 3.11          | 9.62         | 7        | 68         | 19   | 96      | 0.01       | 0.0       | 4.636             | 0.034          | 0                 | 0 | 0          | 40           |
| PL.23426                 | PL.23425    | C   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.07            | 3.18          | 9.62         | 7        | 68         | 19   | 96      | 0.03       | 0.0       | 4.785             | 0.149          | 0                 | 0 | 1          | 40           |
| PL.23749                 | PL.23426    | C   | #4 ACSR            | 7.31Y     | 121.8        | 0.00            | 3.18          | 0.73         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 4.789             | 0.005          | 0                 | 0 | 0          | 7            |
| PD.3304                  | PL.23749    | C   | 15T                | 7.31Y     | 121.8        | 0.00            | 3.18          | 0.73         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 4.789             | 0.005          | 0                 | 0 | 0          | 7            |
| PL.23750                 | PD.3304     | C   | #4 ACSR            | 7.31Y     | 121.8        | 0.00            | 3.18          | 0.73         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 4.879             | 0.090          | 1                 | 0 | 2          | 7            |
| PL.23578                 | PL.23750    | C   | #4 ACSR            | 7.31Y     | 121.8        | 0.00            | 3.18          | 0.62         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.941             | 0.062          | 0                 | 0 | 4          | 5            |
| PL.22904                 | PL.23578    | C   | #4 ACSR            | 7.31Y     | 121.8        | 0.00            | 3.18          | 0.57         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.981             | 0.039          | 4                 | 1 | 1          | 1            |
| PL.22906                 | PL.22904    | C   | #4 ACSR            | 7.31Y     | 121.8        | 0.00            | 3.18          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.140             | 0.159          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.22903                 | PL.23426    | C   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.02            | 3.20          | 8.87         | 6        | 62         | 18   | 96      | 0.01       | 0.0       | 4.849             | 0.064          | 9                 | 3 | 1          | 32           |
| PL.22907                 | PL.22903    | C   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.05            | 3.25          | 7.54         | 5        | 53         | 15   | 96      | 0.02       | 0.0       | 4.985             | 0.137          | 0                 | 0 | 0          | 31           |
| PL.22949                 | PL.22907    | C   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.04            | 3.29          | 7.54         | 5        | 53         | 15   | 96      | 0.02       | 0.0       | 5.106             | 0.121          | 0                 | 0 | 0          | 31           |
| PL.23751                 | PL.22949    | C   | 6 A (CWC)          | 7.30Y     | 121.7        | 0.00            | 3.29          | 7.54         | 5        | 53         | 15   | 96      | 0.00       | 0.0       | 5.111             | 0.005          | 0                 | 0 | 0          | 31           |
| PD.3305                  | PL.23751    | C   | 15T                | 7.30Y     | 121.7        | 0.00            | 3.29          | 7.54         | 0        | 53         | 15   | 96      | 0.00       | 0.0       | 5.111             | 0.005          | 0                 | 0 | 0          | 31           |
| PL.23752                 | PD.3305     | C   | 6 A (CWC)          | 7.30Y     | 121.6        | 0.06            | 3.35          | 7.54         | 5        | 53         | 15   | 96      | 0.02       | 0.0       | 5.291             | 0.181          | 0                 | 0 | 0          | 31           |
| PL.22951                 | PL.23752    | C   | #4 ACSR            | 7.29Y     | 121.6        | 0.09            | 3.45          | 7.54         | 6        | 53         | 15   | 96      | 0.04       | 0.1       | 5.560             | 0.269          | 0                 | 0 | 0          | 31           |
| PL.22952                 | PL.22951    | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.01            | 3.46          | 7.54         | 5        | 53         | 15   | 96      | 0.00       | 0.0       | 5.590             | 0.029          | 0                 | 0 | 0          | 31           |
| PL.23150                 | PL.22952    | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.04            | 3.49          | 7.14         | 5        | 50         | 14   | 96      | 0.01       | 0.0       | 5.699             | 0.109          | 0                 | 0 | 0          | 30           |
| PL.22953                 | PL.23150    | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.05            | 3.54          | 6.12         | 4        | 43         | 12   | 96      | 0.01       | 0.0       | 5.860             | 0.161          | 0                 | 0 | 0          | 28           |
| PL.22954                 | PL.22953    | C   | 6 A (CWC)          | 7.29Y     | 121.4        | 0.02            | 3.55          | 6.12         | 4        | 43         | 12   | 96      | 0.01       | 0.0       | 5.916             | 0.056          | 0                 | 0 | 0          | 28           |
| PL.23841                 | PL.22954    | C   | 6 A (CWC)          | 7.29Y     | 121.4        | 0.00            | 3.55          | 5.47         | 4        | 38         | 11   | 96      | 0.00       | 0.0       | 5.921             | 0.004          | 0                 | 0 | 0          | 22           |
| PD.3352                  | PL.23841    | C   | 10T                | 7.29Y     | 121.4        | 0.00            | 3.55          | 5.47         | 0        | 38         | 11   | 96      | 0.00       | 0.0       | 5.921             | 0.004          | 0                 | 0 | 0          | 22           |
| PL.23842                 | PD.3352     | C   | 6 A (CWC)          | 7.28Y     | 121.4        | 0.05            | 3.60          | 5.47         | 4        | 38         | 11   | 96      | 0.01       | 0.0       | 6.108             | 0.187          | 0                 | 0 | 1          | 22           |
| PL.23586                 | PL.23842    | C   | 6 A (CWC)          | 7.28Y     | 121.4        | 0.00            | 3.60          | 5.47         | 4        | 38         | 11   | 96      | 0.00       | 0.0       | 6.124             | 0.017          | 2                 | 1 | 1          | 21           |
| PL.22955                 | PL.23586    | C   | 6 A (CWC)          | 7.28Y     | 121.4        | 0.03            | 3.64          | 5.13         | 4        | 36         | 10   | 96      | 0.01       | 0.0       | 6.268             | 0.143          | 0                 | 0 | 0          | 20           |
| PL.22956                 | PL.22955    | C   | #1/0 ACSR          | 7.28Y     | 121.4        | 0.00            | 3.64          | 0.38         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.384             | 0.117          | 3                 | 1 | 2          | 2            |
| PL.23151                 | PL.22956    | C   | 6 A (CWC)          | 7.28Y     | 121.4        | 0.01            | 3.65          | 4.76         | 3        | 33         | 9    | 96      | 0.00       | 0.0       | 6.308             | 0.040          | 0                 | 0 | 0          | 18           |
| PL.23761                 | PL.23151    | C   | #4 ACSR            | 7.28Y     | 121.4        | 0.00            | 3.65          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 6.312             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3310                  | PL.23761    | C   | 8T                 | 7.28Y     | 121.4        | 0.00            | 3.65          | 0.90         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 6.312             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23762                 | PD.3310     | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.65          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 6.402             | 0.090          | 0                 | 0 | 0          | 1            |
| PL.23236                 | PL.23762    | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.65          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 6.533             | 0.130          | 6                 | 2 | 1          | 1            |
| PL.22957                 | PL.23236    | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.02            | 3.67          | 3.86         | 3        | 27         | 8    | 96      | 0.00       | 0.0       | 6.418             | 0.110          | 0                 | 0 | 0          | 17           |
| PL.23152                 | PL.22957    | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.01            | 3.67          | 1.46         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 6.536             | 0.118          | 1                 | 0 | 1          | 9            |
| PL.23843                 | PL.23152    | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.00            | 3.67          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 6.541             | 0.005          | 0                 | 0 | 0          | 6            |
| PD.3353                  | PL.23843    | C   | 8T                 | 7.28Y     | 121.3        | 0.00            | 3.67          | 0.90         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 6.541             | 0.005          | 0                 | 0 | 0          | 6            |
| PL.23844                 | PD.3353     | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.01            | 3.68          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 6.690             | 0.150          | 0                 | 0 | 0          | 6            |
| PL.23237                 | PL.23844    | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.00            | 3.68          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 6.762             | 0.072          | 0                 | 0 | 0          | 6            |
| PL.22964                 | PL.23237    | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.01            | 3.69          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 6.912             | 0.150          | 0                 | 0 | 0          | 6            |
| PL.22963                 | PL.22964    | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.00            | 3.69          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 6.990             | 0.078          | 0                 | 0 | 0          | 6            |
| PL.22965                 | PL.22963    | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 7.077             | 0.087          | 0                 | 0 | 0          | 6            |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.22966                 | PL.22965    | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.128             | 0.051          | 0                 | 0 | 2          | 2            |
| PL.22967                 | PL.22965    | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.89         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 7.114             | 0.037          | 1                 | 0 | 1          | 4            |
| PL.23851                 | PL.22967    | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.33         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.119             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3357                  | PL.23851    | C   | 8T                 | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.33         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.119             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23852                 | PD.3357     | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.33         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.254             | 0.135          | 0                 | 0 | 0          | 1            |
| PL.22969                 | PL.23852    | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.33         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.311             | 0.057          | 0                 | 0 | 0          | 1            |
| PL.22970                 | PL.22969    | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.476             | 0.165          | 0                 | 0 | 0          | 0            |
| PL.23153                 | PL.22969    | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.33         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.396             | 0.084          | 2                 | 1 | 1          | 1            |
| PL.22968                 | PL.22969    | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.453             | 0.142          | 0                 | 0 | 0          | 0            |
| PL.23845                 | PL.22967    | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 7.119             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3354                  | PL.23845    | C   | 8T                 | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 7.119             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.23846                 | PD.3354     | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 7.295             | 0.177          | 0                 | 0 | 0          | 2            |
| PL.22971                 | PL.23846    | C   | #1/0 ACSR          | 7.28Y     | 121.3        | 0.00            | 3.70          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 7.419             | 0.124          | 3                 | 1 | 2          | 2            |
| PL.22962                 | PL.23152    | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.67          | 0.44         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.649             | 0.113          | 3                 | 1 | 2          | 2            |
| PL.22959                 | PL.22957    | C   | #1/0 ACSR          | 7.28Y     | 121.3        | 0.00            | 3.67          | 2.40         | 1        | 17         | 5    | 96      | 0.00       | 0.0       | 6.423             | 0.005          | 0                 | 0 | 0          | 8            |
| PD.3315                  | PL.22959    | C   | 8T                 | 7.28Y     | 121.3        | 0.00            | 3.67          | 2.40         | 0        | 17         | 5    | 96      | 0.00       | 0.0       | 6.423             | 0.005          | 0                 | 0 | 0          | 8            |
| PL.22958                 | PD.3315     | C   | #4 ACSR            | 7.28Y     | 121.3        | 0.00            | 3.67          | 0.24         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 6.537             | 0.114          | 0                 | 0 | 2          | 3            |
| PL.22960                 | PL.22958    | C   | #1/0 ACSR          | 7.28Y     | 121.3        | 0.00            | 3.67          | 0.22         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 6.591             | 0.054          | 2                 | 0 | 1          | 1            |
| PL.23592                 | PD.3315     | C   | #1/0 ACSR          | 7.28Y     | 121.3        | 0.01            | 3.67          | 2.15         | 1        | 15         | 4    | 97      | 0.00       | 0.0       | 6.557             | 0.134          | 6                 | 2 | 1          | 5            |
| PL.23593                 | PL.23592    | C   | #1/0 ACSR          | 7.28Y     | 121.3        | 0.01            | 3.68          | 1.33         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 6.741             | 0.184          | 0                 | 0 | 1          | 4            |
| PL.23771                 | PL.23593    | C   | #1/0 ACSR          | 7.28Y     | 121.3        | 0.00            | 3.68          | 1.32         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 6.745             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3316                  | PL.23771    | C   | 8T                 | 7.28Y     | 121.3        | 0.00            | 3.68          | 1.32         | 0        | 9          | 3    | 95      | 0.00       | 0.0       | 6.745             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.23772                 | PD.3316     | C   | #1/0 ACSR          | 7.28Y     | 121.3        | 0.00            | 3.68          | 1.32         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 6.836             | 0.091          | 3                 | 1 | 2          | 3            |
| PL.23594                 | PL.23772    | C   | #1/0 ACSR          | 7.28Y     | 121.3        | 0.00            | 3.68          | 0.84         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 6.880             | 0.044          | 6                 | 2 | 1          | 1            |
| PL.23759                 | PL.22954    | C   | 6 A (CWC)          | 7.29Y     | 121.4        | 0.00            | 3.55          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 5.921             | 0.005          | 0                 | 0 | 0          | 6            |
| PD.3309                  | PL.23759    | C   | 10T                | 7.29Y     | 121.4        | 0.00            | 3.55          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 5.921             | 0.005          | 0                 | 0 | 0          | 6            |
| PL.23760                 | PD.3309     | C   | 6 A (CWC)          | 7.29Y     | 121.4        | 0.00            | 3.56          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 6.045             | 0.124          | 0                 | 0 | 0          | 6            |
| PL.23224                 | PL.23760    | C   | 6 A (CWC)          | 7.29Y     | 121.4        | 0.00            | 3.56          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 6.156             | 0.112          | 0                 | 0 | 0          | 6            |
| PL.23225                 | PL.23224    | C   | 6 A (CWC)          | 7.29Y     | 121.4        | 0.00            | 3.56          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 6.286             | 0.130          | 0                 | 0 | 0          | 6            |
| PL.23226                 | PL.23225    | C   | 6 A (CWC)          | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 6.409             | 0.122          | 0                 | 0 | 0          | 6            |
| PL.23763                 | PL.23226    | C   | #1/0 ACSR          | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.55         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 6.413             | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PD.3311                  | PL.23763    | C   | 8T                 | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.55         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 6.413             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23764                 | PD.3311     | C   | #1/0 ACSR          | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.55         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 6.567             | 0.154          | 4                 | 1 | 1          | 1            |
| PL.22961                 | PL.23226    | C   | 6 A (CWC)          | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.10         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.441             | 0.033          | 0                 | 0 | 2          | 5            |
| PL.23587                 | PL.22961    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.10         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 6.498             | 0.056          | 1                 | 0 | 1          | 3            |
| PL.23765                 | PL.23587    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.537             | 0.039          | 0                 | 0 | 0          | 2            |
| PD.3312                  | PL.23765    | C   | 8T                 | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.537             | 0.039          | 0                 | 0 | 0          | 2            |
| PL.23766                 | PD.3312     | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.648             | 0.111          | 0                 | 0 | 0          | 2            |
| PL.23227                 | PL.23766    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.740             | 0.092          | 0                 | 0 | 0          | 2            |
| PL.23768                 | PL.23227    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.863             | 0.123          | 0                 | 0 | 0          | 2            |
| PL.23228                 | PL.23768    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.008             | 0.146          | 0                 | 0 | 0          | 2            |
| PL.23229                 | PL.23228    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.075             | 0.066          | 0                 | 0 | 0          | 2            |
| PL.23588                 | PL.23229    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.201             | 0.126          | 0                 | 0 | 1          | 2            |
| PL.23589                 | PL.23588    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.347             | 0.146          | 0                 | 0 | 0          | 1            |
| PL.23590                 | PL.23589    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.397             | 0.051          | 0                 | 0 | 0          | 1            |
| PL.23591                 | PL.23590    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.466             | 0.069          | 0                 | 0 | 0          | 1            |
| PL.23769                 | PL.23591    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.471             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3314                  | PL.23769    | C   | 12T                | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.471             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23770                 | PD.3314     | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.575             | 0.104          | 0                 | 0 | 0          | 1            |
| PL.23230                 | PL.23770    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.692             | 0.117          | 0                 | 0 | 0          | 1            |
| PL.23231                 | PL.23230    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.822             | 0.130          | 0                 | 0 | 0          | 1            |
| PL.23232                 | PL.23231    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.898             | 0.076          | 0                 | 0 | 0          | 1            |
| PL.23234                 | PL.23232    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.006             | 0.107          | 0                 | 0 | 0          | 1            |
| PL.23233                 | PL.23234    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.159             | 0.153          | 0                 | 0 | 0          | 1            |
| PL.23235                 | PL.23233    | C   | #4 ACSR            | 7.29Y     | 121.4        | 0.00            | 3.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.225             | 0.066          | 0                 | 0 | 1          | 1            |
| PL.23747                 | PL.23150    | C   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.49          | 1.01         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 5.704             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3303                  | PL.23747    | C   | 10T                | 7.29Y     | 121.5        | 0.00            | 3.49          | 1.01         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 5.704             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.23748                 | PD.3303     | C   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.49          | 1.01         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 5.844             | 0.140          | 7                 | 2 | 1          | 2            |
| PL.23585                 | PL.23748    | C   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.49          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.880             | 0.036          | 0                 | 0 | 1          | 1            |
| PL.23758                 | PL.22952    | C   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.46          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 5.594             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3308                  | PL.23758    | C   | 10T                | 7.29Y     | 121.5        | 0.00            | 3.46          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 5.594             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23757                 | PD.3308     | C   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.46          | 0.41         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 5.705             | 0.111          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23739                 | PL.22896    | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.89          | 2.73         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 4.222             | 0.005          | 0                 | 0 | 0          | 5            |
| PD.3299                  | PL.23739    | C   | 15T                | 7.33Y     | 122.1        | 0.00            | 2.89          | 2.73         | 0        | 19         | 5    | 97      | 0.00       | 0.0       | 4.222             | 0.005          | 0                 | 0 | 0          | 5            |
| PL.23740                 | PD.3299     | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.02            | 2.90          | 2.73         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 4.347             | 0.125          | 0                 | 0 | 0          | 5            |
| PL.23223                 | PL.23740    | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.01            | 2.92          | 2.73         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 4.456             | 0.109          | 0                 | 0 | 0          | 5            |
| PL.23755                 | PL.23223    | C   | 6 A (CWC)          | 7.33Y     | 122.1        | 0.00            | 2.92          | 1.18         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 4.460             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3307                  | PL.23755    | C   | 10T                | 7.33Y     | 122.1        | 0.00            | 2.92          | 1.18         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 4.460             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.23756                 | PD.3307     | C   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.01            | 2.93          | 1.18         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 4.655             | 0.195          | 0                 | 0 | 0          | 2            |
| PL.22900                 | PL.23756    | C   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.18         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 4.731             | 0.076          | 0                 | 0 | 0          | 2            |
| PL.22901                 | PL.22900    | C   | 6 A (CWC)          | 7.32Y     | 122.1        | 0.00            | 2.93          | 1.18         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 4.804             | 0.074          | 2                 | 0 | 1          | 2            |
| PL.22902                 | PL.22901    | C   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.94          | 0.97         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 4.935             | 0.130          | 7                 | 2 | 1          | 1            |
| PL.23839                 | PL.23223    | C   | #4 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.92          | 1.55         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 4.461             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3351                  | PL.23839    | C   | 10T                | 7.33Y     | 122.1        | 0.00            | 2.92          | 1.55         | 0        | 11         | 3    | 96      | 0.00       | 0.0       | 4.461             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.23840                 | PD.3351     | C   | #4 ACSR            | 7.33Y     | 122.1        | 0.00            | 2.92          | 1.55         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 4.481             | 0.020          | 7                 | 2 | 1          | 3            |
| PL.23584                 | PL.23840    | C   | #4 ACSR            | 7.32Y     | 122.1        | 0.00            | 2.92          | 0.61         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 4.567             | 0.086          | 4                 | 1 | 2          | 2            |
| PL.22881                 | PL.23446    | C   | #4 ACSR            | 7.35Y     | 122.5        | 0.00            | 2.54          | 0.61         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 3.536             | 0.066          | 4                 | 1 | 1          | 1            |
| PL.23835                 | PL.23544    | A   | #1/0 ACSR          | 7.35Y     | 122.6        | 0.00            | 2.44          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.159             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3349                  | PL.23835    | A   | 20T                | 7.35Y     | 122.6        | 0.00            | 2.44          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.159             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23836                 | PD.3349     | A   | #1/0 ACSR          | 7.35Y     | 122.6        | 0.00            | 2.44          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.213             | 0.054          | 0                 | 0 | 1          | 1            |
| PL.23725                 | PL.23146    | A   | #4 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.92         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 2.865             | 0.004          | 0                 | 0 | 0          | 2            |
| PD.3292                  | PL.23725    | A   | 20T                | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.92         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 2.865             | 0.004          | 0                 | 0 | 0          | 2            |
| PL.23726                 | PD.3292     | A   | #4 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.92         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 2.922             | 0.058          | 7                 | 2 | 2          | 2            |
| PL.23721                 | PL.23449    | C   | #4 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.22          | 1.05         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 2.536             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3290                  | PL.23721    | C   | 20T                | 7.37Y     | 122.8        | 0.00            | 2.22          | 1.05         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 2.536             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23722                 | PD.3290     | C   | #4 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.22          | 1.05         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 2.585             | 0.049          | 7                 | 2 | 1          | 1            |
| PL.23661                 | PL.23143    | C   | 6 A (CWC)          | 7.43Y     | 123.8        | 0.00            | 1.16          | 0.52         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 0.938             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3260                  | PL.23661    | C   | 50T                | 7.43Y     | 123.8        | 0.00            | 1.16          | 0.52         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 0.938             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.23662                 | PD.3260     | C   | 6 A (CWC)          | 7.43Y     | 123.8        | 0.00            | 1.16          | 0.52         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 1.085             | 0.147          | 4                 | 1 | 1          | 1            |
| PL.23867                 | PL.23480    | C   | 6 A (CWC)          | 7.44Y     | 124.0        | 0.00            | 1.03          | 17.83        | 13       | 128        | 36   | 96      | 0.00       | 0.0       | 0.819             | 0.003          | 0                 | 0 | 0          | 40           |
| PD.3366                  | PL.23867    | C   | 35L                | 7.44Y     | 124.0        | 0.00            | 1.03          | 17.83        | 51       | 128        | 36   | 96      | 0.00       | 0.0       | 0.819             | 0.003          | 0                 | 0 | 0          | 40           |
| PL.23868                 | PD.3366     | C   | 6 A (CWC)          | 7.43Y     | 123.9        | 0.10            | 1.13          | 17.83        | 13       | 128        | 36   | 96      | 0.09       | 0.1       | 0.940             | 0.120          | 0                 | 0 | 0          | 40           |
| PL.23204                 | PL.23868    | C   | 6 A (CWC)          | 7.43Y     | 123.8        | 0.10            | 1.23          | 17.83        | 13       | 127        | 36   | 96      | 0.10       | 0.1       | 1.065             | 0.125          | 0                 | 0 | 0          | 40           |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23308                 | PL.23204    | C   | 6 A (CWC)          | 7.42Y     | 123.7        | 0.08            | 1.31          | 17.83        | 13       | 127        | 36   | 96      | 0.08       | 0.1       | 1.164             | 0.099          | 0                 | 0 | 0          | 40           |
| PL.23141                 | PL.23308    | C   | 6 A (CWC)          | 7.42Y     | 123.6        | 0.10            | 1.41          | 17.31        | 12       | 124        | 35   | 96      | 0.09       | 0.1       | 1.291             | 0.127          | 0                 | 0 | 0          | 39           |
| PL.23205                 | PL.23141    | C   | 6 A (CWC)          | 7.41Y     | 123.5        | 0.10            | 1.52          | 17.31        | 12       | 123        | 35   | 96      | 0.10       | 0.1       | 1.423             | 0.132          | 0                 | 0 | 0          | 39           |
| PL.23476                 | PL.23205    | C   | 6 A (CWC)          | 7.40Y     | 123.4        | 0.10            | 1.61          | 17.31        | 12       | 123        | 35   | 96      | 0.08       | 0.1       | 1.551             | 0.129          | 17                | 5 | 2          | 39           |
| PL.23477                 | PL.23476    | C   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.09            | 1.70          | 14.97        | 11       | 107        | 30   | 96      | 0.07       | 0.1       | 1.675             | 0.124          | 0                 | 0 | 0          | 37           |
| PL.23208                 | PL.23477    | C   | 6 A (CWC)          | 7.39Y     | 123.2        | 0.08            | 1.78          | 14.97        | 11       | 107        | 30   | 96      | 0.07       | 0.1       | 1.795             | 0.120          | 0                 | 0 | 0          | 37           |
| PL.23474                 | PL.23208    | C   | 6 A (CWC)          | 7.39Y     | 123.1        | 0.08            | 1.86          | 14.97        | 11       | 106        | 30   | 96      | 0.07       | 0.1       | 1.919             | 0.124          | 2                 | 0 | 1          | 37           |
| PL.23475                 | PL.23474    | C   | 6 A (CWC)          | 7.38Y     | 123.1        | 0.07            | 1.93          | 14.74        | 11       | 105        | 30   | 96      | 0.05       | 0.0       | 2.017             | 0.099          | 0                 | 0 | 0          | 36           |
| PL.23209                 | PL.23475    | C   | 6 A (CWC)          | 7.38Y     | 123.0        | 0.09            | 2.02          | 14.74        | 11       | 105        | 30   | 96      | 0.07       | 0.1       | 2.155             | 0.138          | 0                 | 0 | 0          | 36           |
| PL.23456                 | PL.23209    | C   | 6 A (CWC)          | 7.38Y     | 122.9        | 0.06            | 2.08          | 14.74        | 11       | 105        | 30   | 96      | 0.05       | 0.0       | 2.247             | 0.092          | 7                 | 2 | 2          | 36           |
| PL.22843                 | PL.23456    | C   | 6 A (CWC)          | 7.37Y     | 122.9        | 0.01            | 2.09          | 2.39         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 2.332             | 0.085          | 7                 | 2 | 1          | 2            |
| PL.22844                 | PL.22843    | C   | #1/0 ACSR          | 7.37Y     | 122.9        | 0.00            | 2.09          | 1.39         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 2.363             | 0.031          | 10                | 3 | 1          | 1            |
| PL.23472                 | PL.23456    | C   | 6 A (CWC)          | 7.37Y     | 122.9        | 0.06            | 2.14          | 11.37        | 8        | 81         | 23   | 96      | 0.04       | 0.0       | 2.361             | 0.114          | 0                 | 0 | 1          | 32           |
| PL.23655                 | PL.23472    | C   | 6 A (CWC)          | 7.37Y     | 122.9        | 0.00            | 2.14          | 11.37        | 8        | 81         | 23   | 96      | 0.00       | 0.0       | 2.366             | 0.005          | 0                 | 0 | 0          | 31           |
| PD.3257                  | PL.23655    | C   | 15T                | 7.37Y     | 122.9        | 0.00            | 2.14          | 11.37        | 0        | 81         | 23   | 96      | 0.00       | 0.0       | 2.366             | 0.005          | 0                 | 0 | 0          | 31           |
| PL.23656                 | PD.3257     | C   | 6 A (CWC)          | 7.37Y     | 122.8        | 0.05            | 2.19          | 11.37        | 8        | 81         | 23   | 96      | 0.03       | 0.0       | 2.458             | 0.093          | 5                 | 1 | 1          | 31           |
| PL.23473                 | PL.23656    | C   | 6 A (CWC)          | 7.37Y     | 122.8        | 0.03            | 2.22          | 10.62        | 8        | 75         | 21   | 96      | 0.02       | 0.0       | 2.521             | 0.063          | 1                 | 0 | 1          | 30           |
| PL.23468                 | PL.23473    | C   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.03            | 2.25          | 10.43        | 7        | 74         | 21   | 96      | 0.02       | 0.0       | 2.584             | 0.063          | 0                 | 0 | 0          | 29           |
| PL.23467                 | PL.23468    | C   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.03            | 2.28          | 10.43        | 7        | 74         | 21   | 96      | 0.02       | 0.0       | 2.646             | 0.062          | 6                 | 2 | 1          | 29           |
| PL.23466                 | PL.23467    | C   | 6 A (CWC)          | 7.36Y     | 122.7        | 0.06            | 2.34          | 9.54         | 7        | 68         | 19   | 96      | 0.03       | 0.0       | 2.794             | 0.147          | 1                 | 0 | 1          | 28           |
| PL.23465                 | PL.23466    | C   | 6 A (CWC)          | 7.36Y     | 122.6        | 0.03            | 2.37          | 9.42         | 7        | 67         | 19   | 96      | 0.02       | 0.0       | 2.863             | 0.070          | 0                 | 0 | 0          | 27           |
| PL.23142                 | PL.23465    | C   | 6 A (CWC)          | 7.36Y     | 122.6        | 0.04            | 2.41          | 7.85         | 6        | 56         | 16   | 96      | 0.02       | 0.0       | 2.977             | 0.113          | 3                 | 1 | 1          | 24           |
| PL.22873                 | PL.23142    | C   | #4 ACSR            | 7.36Y     | 122.6        | 0.00            | 2.41          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 2.997             | 0.020          | 0                 | 0 | 0          | 4            |
| PL.23461                 | PL.22873    | C   | #4 ACSR            | 7.36Y     | 122.6        | 0.00            | 2.42          | 0.97         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 3.019             | 0.022          | 4                 | 1 | 2          | 3            |
| PL.23462                 | PL.23461    | C   | #4 ACSR            | 7.36Y     | 122.6        | 0.00            | 2.42          | 0.43         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 3.063             | 0.045          | 3                 | 1 | 1          | 1            |
| PL.22874                 | PL.22873    | C   | #4 ACSR            | 7.36Y     | 122.6        | 0.00            | 2.42          | 0.75         | 1        | 5          | 2    | 93      | 0.00       | 0.0       | 3.030             | 0.033          | 5                 | 2 | 1          | 1            |
| PL.23463                 | PL.23142    | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.03            | 2.44          | 5.70         | 4        | 40         | 11   | 96      | 0.01       | 0.0       | 3.081             | 0.105          | 1                 | 0 | 1          | 19           |
| PL.23464                 | PL.23463    | C   | 6 A (CWC)          | 7.35Y     | 122.5        | 0.02            | 2.46          | 5.61         | 4        | 40         | 11   | 96      | 0.01       | 0.0       | 3.164             | 0.082          | 6                 | 2 | 4          | 18           |
| PL.22870                 | PL.23464    | C   | #4 ACSR            | 7.35Y     | 122.5        | 0.00            | 2.46          | 0.28         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 3.213             | 0.049          | 2                 | 1 | 2          | 2            |
| PL.23470                 | PL.23464    | C   | 6 A (CWC)          | 7.35Y     | 122.5        | 0.01            | 2.47          | 3.62         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 3.254             | 0.090          | 1                 | 0 | 1          | 10           |
| PL.23471                 | PL.23470    | C   | 6 A (CWC)          | 7.35Y     | 122.5        | 0.02            | 2.49          | 3.43         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 3.361             | 0.107          | 0                 | 0 | 0          | 9            |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23469                 | PL.23471      | C   | 6 A (CWC)          | 7.35Y     | 122.5        | 0.03            | 2.52          | 3.43         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 3.529             | 0.168          | 0                 | 0 | 1          | 9            |
| PL.22869                 | PL.23469      | C   | #4 ACSR            | 7.35Y     | 122.5        | 0.00            | 2.52          | 0.50         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 3.589             | 0.060          | 4                 | 1 | 1          | 1            |
| PL.23455                 | PL.23469      | C   | 6 A (CWC)          | 7.35Y     | 122.5        | 0.02            | 2.54          | 2.93         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 3.695             | 0.166          | 0                 | 0 | 0          | 7            |
| PL.23210                 | PL.23455      | C   | 6 A (CWC)          | 7.35Y     | 122.4        | 0.02            | 2.56          | 2.93         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 3.826             | 0.131          | 0                 | 0 | 0          | 7            |
| PL.23454                 | PL.23210      | C   | 6 A (CWC)          | 7.35Y     | 122.4        | 0.01            | 2.57          | 2.93         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 3.953             | 0.127          | 7                 | 2 | 4          | 7            |
| PL.23459                 | PL.23454      | C   | 6 A (CWC)          | 7.35Y     | 122.4        | 0.01            | 2.58          | 2.00         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 4.047             | 0.094          | 5                 | 1 | 1          | 3            |
| PL.23460                 | PL.23459      | C   | 6 A (CWC)          | 7.35Y     | 122.4        | 0.00            | 2.58          | 1.34         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 4.124             | 0.077          | 9                 | 3 | 2          | 2            |
| PL.22868                 | PL.23454      | C   | #4 ACSR            | 7.35Y     | 122.4        | 0.00            | 2.57          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.059             | 0.105          | 0                 | 0 | 0          | 0            |
| PL.22871                 | PL.23464      | C   | 6 A (CWC)          | 7.35Y     | 122.5        | 0.00            | 2.46          | 0.91         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 3.258             | 0.094          | 5                 | 1 | 1          | 2            |
| PL.22872                 | PL.22871      | C   | #4 ACSR            | 7.35Y     | 122.5        | 0.00            | 2.46          | 0.21         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 3.301             | 0.044          | 1                 | 0 | 1          | 1            |
| PL.22875                 | PL.23465      | C   | 6 A (CWC)          | 7.36Y     | 122.6        | 0.00            | 2.37          | 1.57         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 2.903             | 0.040          | 11                | 3 | 3          | 3            |
| PL.22841                 | PL.23308      | C   | #1/0 ACSR          | 7.42Y     | 123.7        | 0.00            | 1.31          | 0.52         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 1.201             | 0.037          | 4                 | 1 | 1          | 1            |
| PL.23659                 | PL.23199      | A   | 6 A (CWC)          | 7.46Y     | 124.3        | 0.00            | 0.72          | 1.65         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 0.578             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3259                  | PL.23659      | A   | 50T                | 7.46Y     | 124.3        | 0.00            | 0.72          | 1.65         | 0        | 12         | 3    | 97      | 0.00       | 0.0       | 0.578             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.23660                 | PD.3259       | A   | 6 A (CWC)          | 7.46Y     | 124.3        | 0.01            | 0.73          | 1.65         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 0.704             | 0.126          | 0                 | 0 | 0          | 3            |
| PL.23200                 | PL.23660      | A   | 6 A (CWC)          | 7.46Y     | 124.3        | 0.01            | 0.74          | 1.65         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 0.861             | 0.157          | 0                 | 0 | 0          | 3            |
| PL.23201                 | PL.23200      | A   | 6 A (CWC)          | 7.45Y     | 124.2        | 0.01            | 0.76          | 1.65         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 1.039             | 0.178          | 0                 | 0 | 0          | 3            |
| PL.23202                 | PL.23201      | A   | 6 A (CWC)          | 7.45Y     | 124.2        | 0.01            | 0.77          | 1.65         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 1.193             | 0.154          | 0                 | 0 | 0          | 3            |
| PL.22838                 | PL.23202      | A   | #1/0 ACSR          | 7.45Y     | 124.2        | 0.00            | 0.77          | 0.78         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 1.233             | 0.040          | 6                 | 2 | 1          | 1            |
| PL.23139                 | PL.23202      | A   | 6 A (CWC)          | 7.45Y     | 124.2        | 0.01            | 0.78          | 0.87         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 1.354             | 0.161          | 0                 | 0 | 0          | 2            |
| PL.23203                 | PL.23139      | A   | 6 A (CWC)          | 7.45Y     | 124.2        | 0.00            | 0.78          | 0.87         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 1.535             | 0.181          | 6                 | 2 | 2          | 2            |
| PL.21532                 | Millers Creek | ABC | 336 MCM AC         | 7.50Y     | 125.0        | 0.01            | 0.01          | 78.41        | 15       | 1679       | 541  | 95      | 0.05       | 0.0       | 0.009             | 0.009          | 0                 | 0 | 0          | 417          |
| PL.27999                 | PL.21532      | ABC | 336 MCM AC         | 7.50Y     | 125.0        | 0.00            | 0.01          | 78.41        | 15       | 1679       | 541  | 95      | 0.01       | 0.0       | 0.011             | 0.002          | 0                 | 0 | 0          | 417          |

----- Feeder No. 2 (Youth Haven F2) Beginning with Device PD.3871 -----

|          |          |     |            |       |       |      |      |       |    |      |     |    |      |     |       |       |   |   |   |     |
|----------|----------|-----|------------|-------|-------|------|------|-------|----|------|-----|----|------|-----|-------|-------|---|---|---|-----|
| PD.3871  | PL.27999 | ABC | 200VWE     | 7.50Y | 125.0 | 0.00 | 0.01 | 78.41 | 0  | 1679 | 541 | 95 | 0.00 | 0.0 | 0.011 | 0.002 | 0 | 0 | 0 | 417 |
| PL.28000 | PD.3871  | ABC | 336 MCM AC | 7.50Y | 125.0 | 0.04 | 0.05 | 78.41 | 15 | 1679 | 541 | 95 | 0.37 | 0.0 | 0.082 | 0.071 | 8 | 2 | 2 | 417 |
| PL.23011 | PL.28000 | ABC | 336 MCM AC | 7.50Y | 124.9 | 0.02 | 0.07 | 78.05 | 15 | 1671 | 538 | 95 | 0.21 | 0.0 | 0.122 | 0.040 | 1 | 0 | 1 | 415 |
| PL.23012 | PL.23011 | ABC | 336 MCM AC | 7.49Y | 124.9 | 0.07 | 0.15 | 78.00 | 15 | 1670 | 538 | 95 | 0.60 | 0.0 | 0.239 | 0.117 | 0 | 0 | 0 | 414 |
| PL.23014 | PL.23012 | ABC | 336 MCM AC | 7.49Y | 124.8 | 0.03 | 0.17 | 77.73 | 15 | 1663 | 535 | 95 | 0.22 | 0.0 | 0.282 | 0.044 | 0 | 0 | 1 | 412 |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.23015                 | PL.23014    | ABC | 336 MCM AC         | 7.49Y     | 124.8        | 0.02            | 0.19          | 77.73        | 15       | 1663       | 534  | 95      | 0.17       | 0.0       | 0.316             | 0.034          | 7                 | 2 | 1          | 411          |
| PL.23016                 | PL.23015    | ABC | 336 MCM AC         | 7.49Y     | 124.8        | 0.04            | 0.24          | 77.41        | 15       | 1656       | 532  | 95      | 0.37       | 0.0       | 0.390             | 0.074          | 4                 | 1 | 2          | 410          |
| PL.23013                 | PL.23016    | ABC | 336 MCM AC         | 7.48Y     | 124.7        | 0.02            | 0.26          | 77.21        | 15       | 1651       | 530  | 95      | 0.18       | 0.0       | 0.427             | 0.037          | 2                 | 1 | 1          | 408          |
| PL.23008                 | PL.23013    | ABC | 336 MCM AC         | 7.48Y     | 124.7        | 0.03            | 0.29          | 77.10        | 15       | 1649       | 528  | 95      | 0.28       | 0.0       | 0.482             | 0.056          | 3                 | 1 | 1          | 407          |
| PL.23007                 | PL.23008    | ABC | 336 MCM AC         | 7.48Y     | 124.6        | 0.09            | 0.38          | 76.95        | 15       | 1645       | 527  | 95      | 0.73       | 0.0       | 0.629             | 0.146          | 0                 | 0 | 0          | 406          |
| PL.23892                 | PL.23007    | C   | #1/0 ACSR          | 7.48Y     | 124.6        | 0.00            | 0.38          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.640             | 0.011          | 0                 | 0 | 0          | 1            |
| PL.24411                 | PL.23892    | C   | 6 A (CWC)          | 7.48Y     | 124.6        | 0.00            | 0.38          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.644             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3399                  | PL.24411    | C   | 50T                | 7.48Y     | 124.6        | 0.00            | 0.38          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.644             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24412                 | PD.3399     | C   | 6 A (CWC)          | 7.48Y     | 124.6        | 0.00            | 0.38          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.781             | 0.136          | 0                 | 0 | 1          | 1            |
| PL.24053                 | PL.24412    | C   | 6 A (CWC)          | 7.48Y     | 124.6        | 0.00            | 0.38          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.856             | 0.076          | 0                 | 0 | 0          | 0            |
| PL.23005                 | PL.23007    | ABC | 336 MCM AC         | 7.47Y     | 124.5        | 0.08            | 0.46          | 76.95        | 15       | 1644       | 525  | 95      | 0.64       | 0.0       | 0.757             | 0.128          | 1                 | 0 | 1          | 405          |
| PL.23006                 | PL.23005    | ABC | 336 MCM AC         | 7.47Y     | 124.5        | 0.09            | 0.54          | 76.92        | 15       | 1643       | 523  | 95      | 0.73       | 0.0       | 0.904             | 0.147          | 0                 | 0 | 0          | 404          |
| PL.24409                 | PL.23006    | C   | #1/0 ACSR          | 7.47Y     | 124.5        | 0.00            | 0.54          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.909             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3398                  | PL.24409    | C   | 50T                | 7.47Y     | 124.5        | 0.00            | 0.54          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.909             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24410                 | PD.3398     | C   | #1/0 ACSR          | 7.47Y     | 124.5        | 0.00            | 0.54          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 0.928             | 0.019          | 0                 | 0 | 1          | 1            |
| PL.24078                 | PL.23006    | ABC | 336 MCM AC         | 7.46Y     | 124.4        | 0.06            | 0.61          | 76.90        | 15       | 1642       | 522  | 95      | 0.53       | 0.0       | 1.011             | 0.106          | 0                 | 0 | 0          | 403          |
| PL.23009                 | PL.24078    | ABC | 336 MCM AC         | 7.46Y     | 124.3        | 0.06            | 0.67          | 76.90        | 15       | 1641       | 520  | 95      | 0.48       | 0.0       | 1.107             | 0.096          | 0                 | 0 | 1          | 403          |
| PL.23010                 | PL.23009    | ABC | 336 MCM AC         | 7.45Y     | 124.2        | 0.11            | 0.77          | 76.89        | 15       | 1641       | 519  | 95      | 0.91       | 0.1       | 1.289             | 0.183          | 0                 | 0 | 0          | 402          |
| PL.23893                 | PL.23010    | A   | #1/0 ACSR          | 7.45Y     | 124.2        | 0.00            | 0.77          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 1.321             | 0.032          | 2                 | 1 | 1          | 1            |
| PL.24079                 | PL.23010    | ABC | 336 MCM AC         | 7.45Y     | 124.1        | 0.08            | 0.86          | 76.79        | 15       | 1638       | 516  | 95      | 0.70       | 0.0       | 1.431             | 0.142          | 0                 | 0 | 0          | 401          |
| PL.23003                 | PL.24079    | ABC | 336 MCM AC         | 7.44Y     | 124.1        | 0.07            | 0.93          | 76.79        | 15       | 1637       | 515  | 95      | 0.57       | 0.0       | 1.546             | 0.115          | 0                 | 0 | 1          | 401          |
| PL.23004                 | PL.23003    | ABC | 336 MCM AC         | 7.44Y     | 124.0        | 0.07            | 1.00          | 76.78        | 15       | 1636       | 513  | 95      | 0.58       | 0.0       | 1.662             | 0.116          | 0                 | 0 | 0          | 400          |
| PL.24132                 | PL.23004    | ABC | 336 MCM AC         | 7.44Y     | 123.9        | 0.08            | 1.07          | 76.78        | 15       | 1635       | 512  | 95      | 0.64       | 0.0       | 1.791             | 0.129          | 0                 | 0 | 0          | 400          |
| PL.24261                 | PL.24132    | ABC | 336 MCM AC         | 7.43Y     | 123.9        | 0.04            | 1.11          | 76.78        | 15       | 1635       | 511  | 95      | 0.33       | 0.0       | 1.858             | 0.067          | 0                 | 0 | 1          | 400          |
| PL.24262                 | PL.24261    | ABC | 336 MCM AC         | 7.43Y     | 123.9        | 0.03            | 1.14          | 76.76        | 15       | 1634       | 510  | 95      | 0.23       | 0.0       | 1.903             | 0.046          | 8                 | 2 | 1          | 399          |
| PL.24263                 | PL.24262    | ABC | 336 MCM AC         | 7.43Y     | 123.8        | 0.07            | 1.21          | 76.40        | 15       | 1626       | 507  | 95      | 0.57       | 0.0       | 2.018             | 0.115          | 0                 | 0 | 0          | 398          |
| PL.24133                 | PL.24263    | ABC | 336 MCM AC         | 7.42Y     | 123.7        | 0.06            | 1.27          | 76.40        | 15       | 1625       | 506  | 95      | 0.52       | 0.0       | 2.124             | 0.105          | 0                 | 0 | 0          | 398          |
| PL.24134                 | PL.24133    | ABC | 336 MCM AC         | 7.42Y     | 123.7        | 0.04            | 1.31          | 76.40        | 15       | 1625       | 504  | 96      | 0.33       | 0.0       | 2.190             | 0.066          | 0                 | 0 | 0          | 398          |
| PL.24216                 | PL.24134    | ABC | 336 MCM AC         | 7.42Y     | 123.7        | 0.03            | 1.34          | 76.40        | 15       | 1625       | 504  | 96      | 0.23       | 0.0       | 2.237             | 0.047          | 2                 | 0 | 1          | 398          |
| PL.24217                 | PL.24216    | ABC | 336 MCM AC         | 7.42Y     | 123.6        | 0.05            | 1.38          | 76.32        | 15       | 1623       | 503  | 96      | 0.39       | 0.0       | 2.316             | 0.079          | 7                 | 2 | 2          | 396          |
| PL.23897                 | PL.24217    | ABC | 336 MCM AC         | 7.41Y     | 123.6        | 0.06            | 1.44          | 75.97        | 15       | 1615       | 500  | 96      | 0.48       | 0.0       | 2.414             | 0.098          | 0                 | 0 | 0          | 394          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.24080                 | PL.23897    | ABC | 336 MCM AC         | 7.41Y     | 123.5        | 0.03            | 1.47          | 71.06        | 14       | 1509       | 469  | 95      | 0.20       | 0.0       | 2.462             | 0.048          | 0                 | 0 | 0          | 368          |
| PL.24515                 | PL.24080    | ABC | 336 MCM AC         | 7.41Y     | 123.5        | 0.03            | 1.50          | 71.06        | 14       | 1509       | 468  | 96      | 0.23       | 0.0       | 2.517             | 0.055          | 0                 | 0 | 0          | 368          |
| PL.24516                 | PL.24515    | ABC | 336 MCM AC         | 7.41Y     | 123.5        | 0.02            | 1.52          | 71.06        | 14       | 1509       | 468  | 96      | 0.17       | 0.0       | 2.556             | 0.039          | 0                 | 0 | 0          | 368          |
| PL.24090                 | PL.24516    | ABC | 336 MCM AC         | 7.40Y     | 123.4        | 0.08            | 1.60          | 71.04        | 14       | 1508       | 467  | 96      | 0.62       | 0.0       | 2.701             | 0.145          | 0                 | 0 | 0          | 367          |
| PL.24403                 | PL.24090    | C   | #1/0 ACSR          | 7.40Y     | 123.4        | 0.00            | 1.60          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.706             | 0.005          | 0                 | 0 | 0          | 0            |
| PD.3396                  | PL.24403    | C   | 40T                | 7.40Y     | 123.4        | 0.00            | 1.60          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.706             | 0.005          | 0                 | 0 | 0          | 0            |
| PL.24404                 | PD.3396     | C   | #1/0 ACSR          | 7.40Y     | 123.4        | 0.00            | 1.60          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.724             | 0.018          | 0                 | 0 | 0          | 0            |
| PL.24405                 | PL.24090    | ABC | 336 MCM AC         | 7.40Y     | 123.4        | 0.00            | 1.60          | 71.04        | 14       | 1508       | 466  | 96      | 0.02       | 0.0       | 2.706             | 0.004          | 0                 | 0 | 0          | 367          |
| PL.24406                 | PL.24405    | ABC | 336 MCM AC         | 7.40Y     | 123.3        | 0.06            | 1.66          | 71.04        | 14       | 1508       | 466  | 96      | 0.44       | 0.0       | 2.809             | 0.104          | 0                 | 0 | 0          | 367          |
| PL.24401                 | PL.24406    | A   | #1/0 ACSR          | 7.40Y     | 123.3        | 0.00            | 1.66          | 1.08         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 2.814             | 0.005          | 0                 | 0 | 0          | 4            |
| PD.3395                  | PL.24401    | A   | 40T                | 7.40Y     | 123.3        | 0.00            | 1.66          | 1.08         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 2.814             | 0.005          | 0                 | 0 | 0          | 4            |
| PL.24402                 | PD.3395     | A   | #1/0 ACSR          | 7.40Y     | 123.3        | 0.00            | 1.66          | 1.08         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 2.860             | 0.046          | 5                 | 1 | 2          | 4            |
| PL.23904                 | PL.24402    | A   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.66          | 0.35         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 2.917             | 0.057          | 0                 | 0 | 0          | 2            |
| PL.23905                 | PL.23904    | A   | #4 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.66          | 0.35         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 3.055             | 0.138          | 0                 | 0 | 0          | 2            |
| PL.24146                 | PL.23905    | A   | #4 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.66          | 0.35         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 3.126             | 0.071          | 0                 | 0 | 0          | 2            |
| PL.24147                 | PL.24146    | A   | #4 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.66          | 0.35         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 3.219             | 0.092          | 2                 | 1 | 1          | 2            |
| PL.23354                 | PL.24147    | A   | #4 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.66          | 0.07         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.301             | 0.083          | 0                 | 0 | 1          | 1            |
| PL.24091                 | PL.24406    | ABC | 336 MCM AC         | 7.40Y     | 123.3        | 0.07            | 1.72          | 70.68        | 14       | 1500       | 463  | 96      | 0.53       | 0.0       | 2.936             | 0.126          | 0                 | 0 | 0          | 363          |
| PL.24148                 | PL.24091    | ABC | 336 MCM AC         | 7.39Y     | 123.2        | 0.09            | 1.81          | 70.68        | 14       | 1499       | 461  | 96      | 0.67       | 0.0       | 3.094             | 0.158          | 0                 | 0 | 0          | 363          |
| PL.23000                 | PL.24148    | ABC | 336 MCM AC         | 7.39Y     | 123.1        | 0.04            | 1.85          | 70.68        | 14       | 1498       | 460  | 96      | 0.33       | 0.0       | 3.173             | 0.079          | 7                 | 2 | 1          | 363          |
| PL.23001                 | PL.23000    | ABC | 336 MCM AC         | 7.38Y     | 123.1        | 0.08            | 1.94          | 70.36        | 14       | 1491       | 457  | 96      | 0.64       | 0.0       | 3.328             | 0.155          | 9                 | 3 | 1          | 362          |
| PL.23002                 | PL.23001    | ABC | 336 MCM AC         | 7.38Y     | 123.0        | 0.03            | 1.97          | 69.94        | 13       | 1482       | 453  | 96      | 0.26       | 0.0       | 3.392             | 0.064          | 3                 | 1 | 1          | 361          |
| PL.22999                 | PL.23002    | ABC | 336 MCM AC         | 7.38Y     | 123.0        | 0.04            | 2.01          | 69.80        | 13       | 1478       | 452  | 96      | 0.30       | 0.0       | 3.464             | 0.072          | 0                 | 0 | 0          | 360          |
| PL.22996                 | PL.22999    | ABC | 336 MCM AC         | 7.38Y     | 123.0        | 0.02            | 2.03          | 69.45        | 13       | 1471       | 449  | 96      | 0.17       | 0.0       | 3.506             | 0.042          | 0                 | 0 | 0          | 358          |
| PL.22997                 | PL.22996    | ABC | 336 MCM AC         | 7.38Y     | 122.9        | 0.03            | 2.06          | 69.45        | 13       | 1470       | 448  | 96      | 0.20       | 0.0       | 3.554             | 0.048          | 2                 | 0 | 1          | 358          |
| PL.22998                 | PL.22997    | ABC | 336 MCM AC         | 7.37Y     | 122.9        | 0.03            | 2.09          | 69.38        | 13       | 1469       | 448  | 96      | 0.26       | 0.0       | 3.618             | 0.064          | 0                 | 0 | 0          | 357          |
| PL.24266                 | PL.22998    | ABC | 336 MCM AC         | 7.37Y     | 122.9        | 0.03            | 2.12          | 69.38        | 13       | 1468       | 447  | 96      | 0.20       | 0.0       | 3.669             | 0.050          | 8                 | 2 | 1          | 357          |
| PL.22995                 | PL.24266    | ABC | 336 MCM AC         | 7.37Y     | 122.8        | 0.04            | 2.15          | 68.98        | 13       | 1460       | 444  | 96      | 0.27       | 0.0       | 3.735             | 0.067          | 0                 | 0 | 0          | 356          |
| PL.24092                 | PL.22995    | ABC | 336 MCM AC         | 7.37Y     | 122.8        | 0.08            | 2.23          | 68.54        | 13       | 1450       | 441  | 96      | 0.57       | 0.0       | 3.879             | 0.144          | 0                 | 0 | 0          | 355          |
| PL.24264                 | PL.24092    | ABC | 336 MCM AC         | 7.36Y     | 122.7        | 0.07            | 2.30          | 68.54        | 13       | 1450       | 440  | 96      | 0.52       | 0.0       | 4.010             | 0.131          | 2                 | 1 | 1          | 355          |
| PL.24265                 | PL.24264    | ABC | 336 MCM AC         | 7.36Y     | 122.7        | 0.04            | 2.34          | 68.46        | 13       | 1447       | 438  | 96      | 0.30       | 0.0       | 4.085             | 0.076          | 0                 | 0 | 0          | 354          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.24093                 | PL.24265    | ABC | 336 MCM AC         | 7.36Y     | 122.6        | 0.04            | 2.38          | 68.46        | 13       | 1447       | 437  | 96      | 0.32       | 0.0       | 4.165             | 0.080          | 0                 | 0 | 1          | 354          |
| PL.24391                 | PL.24093    | C   | 6 A (CWC)          | 7.36Y     | 122.6        | 0.00            | 2.38          | 8.33         | 6        | 59         | 17   | 96      | 0.00       | 0.0       | 4.170             | 0.005          | 0                 | 0 | 0          | 11           |
| PD.3390                  | PL.24391    | C   | 40T                | 7.36Y     | 122.6        | 0.00            | 2.38          | 8.33         | 0        | 59         | 17   | 96      | 0.00       | 0.0       | 4.170             | 0.005          | 0                 | 0 | 0          | 11           |
| PL.24392                 | PD.3390     | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.04            | 2.42          | 8.33         | 6        | 59         | 17   | 96      | 0.02       | 0.0       | 4.283             | 0.113          | 0                 | 0 | 0          | 11           |
| PL.24057                 | PL.24392    | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.01            | 2.43          | 3.11         | 2        | 22         | 6    | 96      | 0.00       | 0.0       | 4.346             | 0.063          | 1                 | 0 | 1          | 4            |
| PL.24056                 | PL.24057    | C   | #4 ACSR            | 7.35Y     | 122.6        | 0.00            | 2.44          | 2.92         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 4.383             | 0.037          | 2                 | 1 | 1          | 3            |
| PL.24055                 | PL.24056    | C   | #1/0 ACSR          | 7.35Y     | 122.6        | 0.00            | 2.44          | 0.47         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 4.435             | 0.052          | 3                 | 1 | 1          | 1            |
| PL.24054                 | PL.24056    | C   | #1/0 ACSR          | 7.35Y     | 122.6        | 0.00            | 2.44          | 2.19         | 1        | 16         | 4    | 97      | 0.00       | 0.0       | 4.472             | 0.089          | 16                | 4 | 1          | 1            |
| PL.24218                 | PL.24392    | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.02            | 2.44          | 5.22         | 4        | 37         | 10   | 97      | 0.00       | 0.0       | 4.357             | 0.074          | 6                 | 2 | 1          | 7            |
| PL.24219                 | PL.24218    | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.01            | 2.44          | 2.27         | 2        | 16         | 5    | 95      | 0.00       | 0.0       | 4.406             | 0.049          | 0                 | 0 | 0          | 5            |
| PL.24094                 | PL.24219    | C   | 6 A (CWC)          | 7.35Y     | 122.6        | 0.00            | 2.45          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 4.433             | 0.028          | 6                 | 2 | 2          | 2            |
| PL.24058                 | PL.24219    | C   | #1/0 ACSR          | 7.35Y     | 122.6        | 0.00            | 2.45          | 1.37         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 4.462             | 0.056          | 10                | 3 | 3          | 3            |
| PL.24059                 | PL.24218    | C   | #4 ACSR            | 7.35Y     | 122.6        | 0.00            | 2.44          | 2.08         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 4.388             | 0.031          | 15                | 4 | 1          | 1            |
| PL.23906                 | PL.24093    | ABC | 336 MCM AC         | 7.35Y     | 122.5        | 0.07            | 2.45          | 65.68        | 13       | 1388       | 420  | 96      | 0.53       | 0.0       | 4.311             | 0.145          | 0                 | 0 | 0          | 342          |
| PL.24150                 | PL.23906    | ABC | 336 MCM AC         | 7.35Y     | 122.5        | 0.05            | 2.50          | 65.68        | 13       | 1387       | 419  | 96      | 0.38       | 0.0       | 4.415             | 0.104          | 0                 | 0 | 0          | 342          |
| PL.24151                 | PL.24150    | ABC | 336 MCM AC         | 7.35Y     | 122.4        | 0.06            | 2.57          | 65.68        | 13       | 1387       | 418  | 96      | 0.47       | 0.0       | 4.544             | 0.129          | 0                 | 0 | 0          | 342          |
| PL.24152                 | PL.24151    | ABC | 336 MCM AC         | 7.34Y     | 122.3        | 0.08            | 2.65          | 65.68        | 13       | 1386       | 417  | 96      | 0.60       | 0.0       | 4.708             | 0.164          | 0                 | 0 | 0          | 342          |
| PL.24153                 | PL.24152    | ABC | 336 MCM AC         | 7.34Y     | 122.3        | 0.08            | 2.74          | 65.68        | 13       | 1386       | 415  | 96      | 0.62       | 0.0       | 4.878             | 0.170          | 0                 | 0 | 0          | 342          |
| PL.24154                 | PL.24153    | ABC | 336 MCM AC         | 7.33Y     | 122.2        | 0.07            | 2.81          | 65.68        | 13       | 1385       | 414  | 96      | 0.52       | 0.0       | 5.022             | 0.144          | 0                 | 0 | 0          | 342          |
| PL.24155                 | PL.24154    | ABC | 336 MCM AC         | 7.33Y     | 122.1        | 0.06            | 2.87          | 65.68        | 13       | 1385       | 412  | 96      | 0.45       | 0.0       | 5.145             | 0.123          | 0                 | 0 | 0          | 342          |
| PL.24156                 | PL.24155    | ABC | 336 MCM AC         | 7.32Y     | 122.1        | 0.06            | 2.93          | 65.68        | 13       | 1384       | 411  | 96      | 0.45       | 0.0       | 5.270             | 0.124          | 0                 | 0 | 0          | 342          |
| PL.24157                 | PL.24156    | ABC | 336 MCM AC         | 7.32Y     | 122.0        | 0.06            | 2.99          | 65.68        | 13       | 1384       | 410  | 96      | 0.45       | 0.0       | 5.393             | 0.123          | 0                 | 0 | 0          | 342          |
| PL.24158                 | PL.24157    | ABC | 336 MCM AC         | 7.32Y     | 122.0        | 0.02            | 3.02          | 65.68        | 13       | 1383       | 409  | 96      | 0.18       | 0.0       | 5.441             | 0.048          | 0                 | 0 | 0          | 342          |
| PL.24095                 | PL.24158    | ABC | 336 MCM AC         | 7.32Y     | 121.9        | 0.05            | 3.07          | 65.11        | 13       | 1371       | 406  | 96      | 0.38       | 0.0       | 5.548             | 0.107          | 0                 | 0 | 0          | 338          |
| PL.23922                 | PL.24095    | ABC | 336 MCM AC         | 7.31Y     | 121.9        | 0.04            | 3.11          | 58.79        | 11       | 1237       | 366  | 96      | 0.27       | 0.0       | 5.642             | 0.094          | 0                 | 0 | 0          | 271          |
| PL.24497                 | PL.23922    | ABC | 336 MCM AC         | 7.31Y     | 121.9        | 0.00            | 3.11          | 58.79        | 11       | 1237       | 366  | 96      | 0.01       | 0.0       | 5.646             | 0.005          | 0                 | 0 | 0          | 271          |
| PD.3443-A                | PL.24497    | ABC | Closed             | 7.31Y     | 121.9        | 0.00            | 3.11          | 58.79        | 0        | 1237       | 366  | 96      | 0.00       | 0.0       | 5.646             | 0.005          | 0                 | 0 | 0          | 271          |
| PD.3443-B                | PD.3443-A   | ABC | Closed             | 7.31Y     | 121.9        | 0.00            | 3.11          | 58.79        | 0        | 1237       | 366  | 96      | 0.00       | 0.0       | 5.646             | 0.005          | 0                 | 0 | 0          | 271          |
| PL.24498                 | PD.3443-B   | ABC | 336 MCM AC         | 7.31Y     | 121.8        | 0.04            | 3.15          | 58.79        | 11       | 1237       | 366  | 96      | 0.26       | 0.0       | 5.734             | 0.088          | 0                 | 0 | 0          | 271          |
| PL.24185                 | PL.24498    | ABC | 336 MCM AC         | 7.31Y     | 121.8        | 0.05            | 3.20          | 58.79        | 11       | 1237       | 365  | 96      | 0.34       | 0.0       | 5.852             | 0.117          | 0                 | 0 | 0          | 271          |
| PL.24186                 | PL.24185    | ABC | 336 MCM AC         | 7.31Y     | 121.8        | 0.04            | 3.25          | 58.79        | 11       | 1236       | 364  | 96      | 0.27       | 0.0       | 5.945             | 0.094          | 0                 | 0 | 0          | 271          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.24103                 | PL.24186    | ABC | 336 MCM AC         | 7.30Y     | 121.7        | 0.04            | 3.29          | 58.70        | 11       | 1234       | 363  | 96      | 0.26       | 0.0       | 6.033             | 0.088          | 0                 | 0 | 0          | 269          |
| PL.24188                 | PL.24103    | ABC | 336 MCM AC         | 7.30Y     | 121.7        | 0.05            | 3.34          | 58.70        | 11       | 1234       | 363  | 96      | 0.34       | 0.0       | 6.149             | 0.116          | 0                 | 0 | 0          | 269          |
| PL.24189                 | PL.24188    | ABC | 336 MCM AC         | 7.30Y     | 121.6        | 0.04            | 3.38          | 58.70        | 11       | 1234       | 362  | 96      | 0.26       | 0.0       | 6.240             | 0.090          | 1                 | 0 | 1          | 269          |
| PL.23369                 | PL.24189    | ABC | 336 MCM AC         | 7.29Y     | 121.6        | 0.04            | 3.42          | 58.66        | 11       | 1232       | 361  | 96      | 0.29       | 0.0       | 6.340             | 0.100          | 0                 | 0 | 0          | 268          |
| PL.24190                 | PL.23369    | ABC | 336 MCM AC         | 7.29Y     | 121.5        | 0.05            | 3.47          | 58.66        | 11       | 1232       | 360  | 96      | 0.33       | 0.0       | 6.453             | 0.114          | 0                 | 0 | 0          | 268          |
| PL.24191                 | PL.24190    | ABC | 336 MCM AC         | 7.29Y     | 121.5        | 0.05            | 3.52          | 58.66        | 11       | 1232       | 359  | 96      | 0.34       | 0.0       | 6.572             | 0.119          | 0                 | 0 | 0          | 268          |
| PL.24471                 | PL.24191    | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.52          | 1.33         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 6.577             | 0.005          | 0                 | 0 | 0          | 4            |
| PD.3430                  | PL.24471    | A   | 50T                | 7.29Y     | 121.5        | 0.00            | 3.52          | 1.33         | 0        | 9          | 3    | 95      | 0.00       | 0.0       | 6.577             | 0.005          | 0                 | 0 | 0          | 4            |
| PL.24472                 | PD.3430     | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.53          | 1.33         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 6.644             | 0.068          | 7                 | 2 | 1          | 4            |
| PL.23372                 | PL.24472    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.53          | 0.32         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.753             | 0.108          | 0                 | 0 | 0          | 3            |
| PL.23371                 | PL.23372    | A   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.00            | 3.53          | 0.32         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 6.814             | 0.062          | 2                 | 1 | 3          | 3            |
| PL.24485                 | PL.24191    | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.52          | 1.31         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 6.576             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3438                  | PL.24485    | A   | 50T                | 7.29Y     | 121.5        | 0.00            | 3.52          | 1.31         | 0        | 9          | 3    | 95      | 0.00       | 0.0       | 6.576             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.24486                 | PD.3438     | A   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.00            | 3.52          | 1.31         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 6.579             | 0.003          | 0                 | 0 | 0          | 1            |
| PL.23370                 | PL.24486    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.53          | 1.31         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 6.630             | 0.051          | 0                 | 0 | 0          | 1            |
| PL.24075                 | PL.23370    | A   | #4 ACSR            | 7.29Y     | 121.5        | 0.00            | 3.53          | 1.31         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 6.650             | 0.019          | 9                 | 3 | 1          | 1            |
| PL.24104                 | PL.24191    | ABC | 336 MCM AC         | 7.29Y     | 121.4        | 0.04            | 3.56          | 57.78        | 11       | 1213       | 353  | 96      | 0.25       | 0.0       | 6.661             | 0.089          | 0                 | 0 | 0          | 263          |
| PL.24192                 | PL.24104    | ABC | 336 MCM AC         | 7.28Y     | 121.4        | 0.05            | 3.61          | 57.78        | 11       | 1213       | 353  | 96      | 0.30       | 0.0       | 6.766             | 0.105          | 0                 | 0 | 0          | 263          |
| PL.23939                 | PL.24192    | ABC | 336 MCM AC         | 7.28Y     | 121.3        | 0.05            | 3.66          | 57.78        | 11       | 1212       | 352  | 96      | 0.33       | 0.0       | 6.882             | 0.116          | 0                 | 0 | 0          | 263          |
| PL.24193                 | PL.23939    | ABC | 336 MCM AC         | 7.28Y     | 121.3        | 0.04            | 3.69          | 57.78        | 11       | 1212       | 351  | 96      | 0.23       | 0.0       | 6.963             | 0.081          | 0                 | 0 | 0          | 263          |
| PL.24194                 | PL.24193    | ABC | 336 MCM AC         | 7.28Y     | 121.3        | 0.05            | 3.75          | 57.78        | 11       | 1212       | 351  | 96      | 0.35       | 0.0       | 7.088             | 0.125          | 0                 | 0 | 0          | 263          |
| PL.24195                 | PL.24194    | ABC | 336 MCM AC         | 7.27Y     | 121.2        | 0.05            | 3.80          | 57.78        | 11       | 1211       | 350  | 96      | 0.33       | 0.0       | 7.205             | 0.117          | 0                 | 0 | 0          | 263          |
| PL.23940                 | PL.24195    | ABC | 336 MCM AC         | 7.27Y     | 121.2        | 0.03            | 3.83          | 57.78        | 11       | 1211       | 349  | 96      | 0.18       | 0.0       | 7.269             | 0.063          | 0                 | 0 | 0          | 263          |
| PL.24507                 | PL.23940    | B   | #1/0 ACSR          | 7.27Y     | 121.2        | 0.00            | 3.83          | 48.93        | 21       | 342        | 98   | 96      | 0.01       | 0.0       | 7.271             | 0.003          | 0                 | 0 | 0          | 72           |
| PD.10803                 | PL.24507    | B   | 100CodeSMo         | 7.27Y     | 121.2        | 0.00            | 3.83          | 48.93        | 0        | 342        | 98   | 96      | 0.00       | 0.0       | 7.271             | 0.003          | 0                 | 0 | 0          | 72           |
| PL.24508                 | PD.10803    | B   | #1/0 ACSR          | 7.27Y     | 121.1        | 0.03            | 3.86          | 48.93        | 21       | 342        | 98   | 96      | 0.06       | 0.0       | 7.296             | 0.025          | 0                 | 0 | 0          | 72           |
| PL.23941                 | PL.24508    | B   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.01            | 3.86          | 2.73         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 7.338             | 0.042          | 0                 | 0 | 0          | 1            |
| PL.23943                 | PL.23941    | B   | #4 ACSR            | 7.27Y     | 121.1        | 0.00            | 3.87          | 2.73         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 7.408             | 0.070          | 19                | 5 | 1          | 1            |
| PL.24106                 | PL.23941    | B   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.00            | 3.86          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.355             | 0.017          | 0                 | 0 | 0          | 0            |
| PL.23942                 | PL.24508    | B   | 6 A (CWC)          | 7.26Y     | 121.1        | 0.07            | 3.93          | 46.20        | 33       | 323        | 92   | 96      | 0.18       | 0.1       | 7.331             | 0.034          | 0                 | 0 | 0          | 71           |
| PL.23384                 | PL.23942    | B   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.31            | 4.24          | 46.20        | 33       | 323        | 92   | 96      | 0.76       | 0.2       | 7.479             | 0.148          | 3                 | 1 | 1          | 71           |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.23945                 | PL.23384    | B   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.25          | 2.21         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 7.530             | 0.051          | 0                 | 0 | 0          | 1            |
| PL.23949                 | PL.23945    | B   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.25          | 2.21         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 7.570             | 0.040          | 15                | 4 | 1          | 1            |
| PL.23944                 | PL.23384    | B   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.504             | 0.026          | 0                 | 0 | 0          | 0            |
| PL.24341                 | PL.23384    | B   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.01            | 4.25          | 4.29         | 3        | 30         | 8    | 97      | 0.00       | 0.0       | 7.524             | 0.045          | 0                 | 0 | 0          | 7            |
| PL.24342                 | PL.24341    | B   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.01            | 4.26          | 4.29         | 3        | 30         | 8    | 97      | 0.00       | 0.0       | 7.578             | 0.055          | 11                | 3 | 1          | 7            |
| PL.24340                 | PL.24342    | B   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.27          | 2.71         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 7.612             | 0.034          | 7                 | 2 | 1          | 6            |
| PL.23948                 | PL.24340    | B   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.27          | 0.12         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.660             | 0.048          | 1                 | 0 | 1          | 1            |
| PL.23946                 | PL.24340    | B   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.27          | 0.14         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.642             | 0.029          | 1                 | 0 | 1          | 1            |
| PL.23947                 | PL.24340    | B   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.27          | 1.49         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 7.660             | 0.048          | 10                | 3 | 3          | 3            |
| PL.23385                 | PL.23384    | B   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.10            | 4.34          | 39.25        | 28       | 273        | 78   | 96      | 0.21       | 0.1       | 7.534             | 0.055          | 1                 | 0 | 1          | 62           |
| PL.24336                 | PL.23385    | B   | 6 A (CWC)          | 7.23Y     | 120.6        | 0.08            | 4.43          | 39.17        | 28       | 273        | 78   | 96      | 0.18       | 0.1       | 7.581             | 0.047          | 0                 | 0 | 1          | 61           |
| PL.24337                 | PL.24336    | B   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.25            | 4.68          | 39.16        | 28       | 272        | 78   | 96      | 0.51       | 0.2       | 7.722             | 0.141          | 10                | 3 | 2          | 60           |
| PL.23950                 | PL.24337    | B   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.04            | 4.72          | 36.63        | 26       | 254        | 72   | 96      | 0.08       | 0.0       | 7.749             | 0.027          | 8                 | 2 | 3          | 56           |
| PL.24334                 | PL.23950    | B   | 6 A (CWC)          | 7.21Y     | 120.2        | 0.11            | 4.83          | 35.49        | 25       | 246        | 70   | 96      | 0.20       | 0.1       | 7.818             | 0.069          | 18                | 5 | 2          | 53           |
| PL.24335                 | PL.24334    | B   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.15            | 4.98          | 32.86        | 23       | 228        | 65   | 96      | 0.26       | 0.1       | 7.917             | 0.099          | 0                 | 0 | 0          | 51           |
| PL.24457                 | PL.24335    | B   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.00            | 4.98          | 7.12         | 5        | 49         | 14   | 96      | 0.00       | 0.0       | 7.922             | 0.005          | 0                 | 0 | 0          | 11           |
| PD.3423                  | PL.24457    | B   | 15T                | 7.20Y     | 120.0        | 0.00            | 4.98          | 7.12         | 0        | 49         | 14   | 96      | 0.00       | 0.0       | 7.922             | 0.005          | 0                 | 0 | 0          | 11           |
| PL.24458                 | PD.3423     | B   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.03            | 5.01          | 7.12         | 5        | 49         | 14   | 96      | 0.01       | 0.0       | 8.000             | 0.078          | 0                 | 0 | 0          | 11           |
| PL.24197                 | PL.24458    | B   | 6 A (CWC)          | 7.20Y     | 120.0        | 0.04            | 5.04          | 7.12         | 5        | 49         | 14   | 96      | 0.01       | 0.0       | 8.109             | 0.109          | 0                 | 0 | 0          | 11           |
| PL.24196                 | PL.24197    | B   | 6 A (CWC)          | 7.20Y     | 119.9        | 0.01            | 5.05          | 7.12         | 5        | 49         | 14   | 96      | 0.00       | 0.0       | 8.141             | 0.031          | 0                 | 0 | 0          | 11           |
| PL.23954                 | PL.24196    | B   | 6 A (CWC)          | 7.20Y     | 119.9        | 0.02            | 5.08          | 7.12         | 5        | 49         | 14   | 96      | 0.01       | 0.0       | 8.215             | 0.074          | 0                 | 0 | 0          | 11           |
| PL.24332                 | PL.23954    | B   | #4 ACSR            | 7.20Y     | 119.9        | 0.00            | 5.08          | 7.12         | 5        | 49         | 14   | 96      | 0.00       | 0.0       | 8.231             | 0.016          | 4                 | 1 | 1          | 11           |
| PL.24333                 | PL.24332    | B   | #4 ACSR            | 7.19Y     | 119.9        | 0.02            | 5.10          | 6.52         | 5        | 45         | 13   | 96      | 0.01       | 0.0       | 8.311             | 0.080          | 0                 | 0 | 0          | 10           |
| PL.24330                 | PL.24333    | B   | #4 ACSR            | 7.19Y     | 119.9        | 0.02            | 5.12          | 6.52         | 5        | 45         | 13   | 96      | 0.01       | 0.0       | 8.377             | 0.066          | 0                 | 0 | 1          | 10           |
| PL.24331                 | PL.24330    | B   | #4 ACSR            | 7.19Y     | 119.9        | 0.01            | 5.13          | 6.52         | 5        | 45         | 13   | 96      | 0.00       | 0.0       | 8.399             | 0.023          | 0                 | 0 | 0          | 9            |
| PL.23390                 | PL.24331    | B   | #4 ACSR            | 7.19Y     | 119.9        | 0.01            | 5.14          | 6.52         | 5        | 45         | 13   | 96      | 0.00       | 0.0       | 8.440             | 0.040          | 7                 | 2 | 1          | 9            |
| PL.24328                 | PL.23390    | B   | #2 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.15          | 3.14         | 2        | 22         | 6    | 96      | 0.00       | 0.0       | 8.485             | 0.046          | 4                 | 1 | 1          | 5            |
| PL.24329                 | PL.24328    | B   | #2 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.15          | 2.55         | 1        | 18         | 5    | 96      | 0.00       | 0.0       | 8.529             | 0.044          | 2                 | 0 | 1          | 4            |
| PL.23958                 | PL.24329    | B   | #4 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.15          | 2.30         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 8.543             | 0.014          | 0                 | 0 | 0          | 3            |
| PL.23960                 | PL.23958    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.00            | 5.15          | 1.17         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 8.600             | 0.056          | 8                 | 2 | 1          | 1            |
| PL.23959                 | PL.23958    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.00            | 5.15          | 1.13         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 8.581             | 0.037          | 8                 | 2 | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |            |              |    |
|                          |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   | KW             | KVAR              | Cons<br>On | Cons<br>Thru |    |
| PL.23389                 | PL.23390    | B   | #4 ACSR            | 7.19Y     | 119.9        | 0.01            | 5.15          | 2.38         | 2        | 16         | 5    | 95      | 0.00       | 0.0       | 8.497             | 0.058          | 0                 | 0          | 0            | 3  |
| PL.23956                 | PL.23389    | B   | #4 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.15          | 0.67         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.532             | 0.035          | 0                 | 0          | 0            | 1  |
| PL.23957                 | PL.23956    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.00            | 5.15          | 0.67         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.675             | 0.143          | 0                 | 0          | 0            | 1  |
| PL.24198                 | PL.23957    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.00            | 5.16          | 0.67         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.806             | 0.131          | 0                 | 0          | 0            | 1  |
| PL.24199                 | PL.24198    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.00            | 5.16          | 0.67         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.911             | 0.105          | 5                 | 1          | 1            | 1  |
| PL.23392                 | PL.23389    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.00            | 5.15          | 1.71         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 8.539             | 0.041          | 0                 | 0          | 0            | 2  |
| PL.23391                 | PL.23392    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.01            | 5.16          | 1.66         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.680             | 0.141          | 11                | 3          | 1            | 1  |
| PL.23955                 | PL.23392    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.00            | 5.15          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.579             | 0.041          | 0                 | 0          | 1            | 1  |
| PL.72559                 | PL.24335    | B   | #1/0 ACSR          | 7.20Y     | 120.0        | 0.00            | 4.98          | 25.73        | 11       | 178        | 51   | 96      | 0.00       | 0.0       | 7.921             | 0.004          | 0                 | 0          | 0            | 40 |
| PD.10802                 | PL.72559    | B   | 35L                | 7.20Y     | 120.0        | 0.00            | 4.98          | 25.73        | 74       | 178        | 51   | 96      | 0.00       | 0.0       | 7.921             | 0.004          | 0                 | 0          | 0            | 40 |
| PL.72558                 | PD.10802    | B   | #1/0 ACSR          | 7.20Y     | 120.0        | 0.03            | 5.01          | 25.73        | 11       | 178        | 51   | 96      | 0.04       | 0.0       | 7.970             | 0.049          | 0                 | 0          | 0            | 40 |
| PL.23952                 | PL.72558    | B   | #1/0 ACSR          | 7.20Y     | 120.0        | 0.03            | 5.04          | 25.73        | 11       | 178        | 51   | 96      | 0.04       | 0.0       | 8.022             | 0.052          | 1                 | 0          | 1            | 40 |
| PL.23951                 | PL.23952    | B   | #4 ACSR            | 7.19Y     | 119.9        | 0.07            | 5.11          | 25.54        | 20       | 177        | 50   | 96      | 0.09       | 0.1       | 8.080             | 0.058          | 0                 | 0          | 1            | 39 |
| PL.23381                 | PL.23951    | B   | #4 ACSR            | 7.19Y     | 119.9        | 0.00            | 5.11          | 1.16         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 8.119             | 0.039          | 8                 | 2          | 2            | 2  |
| PL.24249                 | PL.23951    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.08            | 5.19          | 24.34        | 19       | 168        | 48   | 96      | 0.10       | 0.1       | 8.153             | 0.073          | 9                 | 3          | 3            | 36 |
| PL.24250                 | PL.24249    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.06            | 5.25          | 22.97        | 18       | 159        | 45   | 96      | 0.07       | 0.0       | 8.212             | 0.059          | 4                 | 1          | 1            | 33 |
| PL.24251                 | PL.24250    | B   | #4 ACSR            | 7.18Y     | 119.6        | 0.11            | 5.35          | 20.70        | 16       | 143        | 41   | 96      | 0.12       | 0.1       | 8.327             | 0.114          | 0                 | 0          | 1            | 29 |
| PL.24252                 | PL.24251    | B   | #4 ACSR            | 7.18Y     | 119.6        | 0.03            | 5.38          | 20.64        | 16       | 143        | 40   | 96      | 0.03       | 0.0       | 8.358             | 0.031          | 0                 | 0          | 0            | 28 |
| PL.24108                 | PL.24252    | B   | #4 ACSR            | 7.17Y     | 119.6        | 0.06            | 5.44          | 18.73        | 14       | 129        | 37   | 96      | 0.06       | 0.0       | 8.431             | 0.074          | 0                 | 0          | 0            | 26 |
| PL.23964                 | PL.24108    | B   | #4 ACSR            | 7.17Y     | 119.5        | 0.06            | 5.51          | 18.73        | 14       | 129        | 37   | 96      | 0.07       | 0.1       | 8.509             | 0.077          | 0                 | 0          | 0            | 26 |
| PL.23379                 | PL.23964    | B   | #4 ACSR            | 7.16Y     | 119.4        | 0.08            | 5.58          | 18.22        | 14       | 126        | 36   | 96      | 0.08       | 0.1       | 8.610             | 0.101          | 9                 | 3          | 2            | 25 |
| PL.23966                 | PL.23379    | B   | #4 ACSR            | 7.16Y     | 119.4        | 0.01            | 5.60          | 3.01         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 8.732             | 0.123          | 8                 | 2          | 2            | 5  |
| PL.23967                 | PL.23966    | B   | #4 ACSR            | 7.16Y     | 119.4        | 0.00            | 5.60          | 0.95         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 8.837             | 0.105          | 7                 | 2          | 2            | 2  |
| PL.23968                 | PL.23966    | B   | #1/0 ACSR          | 7.16Y     | 119.4        | 0.00            | 5.60          | 0.96         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 8.790             | 0.057          | 7                 | 2          | 1            | 1  |
| PL.23380                 | PL.23379    | B   | #4 ACSR            | 7.16Y     | 119.4        | 0.05            | 5.63          | 13.85        | 11       | 95         | 27   | 96      | 0.03       | 0.0       | 8.683             | 0.073          | 0                 | 0          | 0            | 18 |
| PL.24253                 | PL.23380    | B   | #4 ACSR            | 7.16Y     | 119.3        | 0.04            | 5.67          | 13.85        | 11       | 95         | 27   | 96      | 0.03       | 0.0       | 8.748             | 0.065          | 13                | 4          | 2            | 18 |
| PL.24254                 | PL.24253    | B   | #4 ACSR            | 7.16Y     | 119.3        | 0.03            | 5.70          | 12.00        | 9        | 83         | 23   | 96      | 0.02       | 0.0       | 8.813             | 0.065          | 0                 | 0          | 0            | 16 |
| PL.23969                 | PL.24254    | B   | #1/0 ACSR          | 7.16Y     | 119.3        | 0.00            | 5.70          | 2.03         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 8.848             | 0.035          | 14                | 4          | 2            | 2  |
| PL.24255                 | PL.24254    | B   | #4 ACSR            | 7.16Y     | 119.3        | 0.02            | 5.73          | 9.97         | 8        | 69         | 19   | 96      | 0.01       | 0.0       | 8.865             | 0.053          | 1                 | 0          | 1            | 14 |
| PL.24256                 | PL.24255    | B   | #4 ACSR            | 7.16Y     | 119.3        | 0.02            | 5.75          | 9.81         | 8        | 68         | 19   | 96      | 0.01       | 0.0       | 8.912             | 0.046          | 0                 | 0          | 0            | 13 |
| PL.24257                 | PL.24256    | B   | #4 ACSR            | 7.16Y     | 119.3        | 0.00            | 5.75          | 3.31         | 3        | 23         | 6    | 97      | 0.00       | 0.0       | 8.957             | 0.045          | 21                | 6          | 2            | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.24258                 | PL.24257    | B   | #4 ACSR            | 7.16Y     | 119.3        | 0.00            | 5.75          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 9.013             | 0.056          | 2                 | 1 | 1          | 1            |
| PL.23970                 | PL.24256    | B   | #4 ACSR            | 7.16Y     | 119.3        | 0.00            | 5.75          | 1.35         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 9.024             | 0.112          | 9                 | 3 | 1          | 1            |
| PL.23971                 | PL.24256    | B   | #4 ACSR            | 7.15Y     | 119.2        | 0.02            | 5.77          | 5.15         | 4        | 35         | 10   | 96      | 0.01       | 0.0       | 9.006             | 0.095          | 0                 | 0 | 1          | 9            |
| PL.23972                 | PL.23971    | B   | #4 ACSR            | 7.15Y     | 119.2        | 0.01            | 5.77          | 5.15         | 4        | 35         | 10   | 96      | 0.00       | 0.0       | 9.031             | 0.025          | 0                 | 0 | 0          | 8            |
| PL.24109                 | PL.23972    | B   | #4 ACSR            | 7.15Y     | 119.2        | 0.02            | 5.79          | 3.06         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 9.159             | 0.128          | 0                 | 0 | 0          | 6            |
| PL.23027                 | PL.24109    | B   | #4 ACSR            | 7.15Y     | 119.2        | 0.02            | 5.81          | 3.06         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 9.315             | 0.155          | 3                 | 1 | 1          | 6            |
| PL.23028                 | PL.23027    | B   | #4 ACSR            | 7.15Y     | 119.2        | 0.02            | 5.83          | 2.64         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 9.445             | 0.130          | 0                 | 0 | 0          | 5            |
| PL.24200                 | PL.23028    | B   | #4 ACSR            | 7.15Y     | 119.2        | 0.02            | 5.85          | 2.64         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 9.622             | 0.176          | 0                 | 0 | 0          | 5            |
| PL.24201                 | PL.24200    | B   | #4 ACSR            | 7.15Y     | 119.1        | 0.01            | 5.86          | 2.64         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 9.732             | 0.110          | 0                 | 0 | 0          | 5            |
| PL.23974                 | PL.24201    | B   | #4 ACSR            | 7.15Y     | 119.1        | 0.01            | 5.87          | 2.64         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 9.812             | 0.080          | 0                 | 0 | 0          | 5            |
| PL.23976                 | PL.23974    | B   | #4 ACSR            | 7.15Y     | 119.1        | 0.00            | 5.87          | 0.55         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.874             | 0.062          | 4                 | 1 | 1          | 1            |
| PL.23975                 | PL.23974    | B   | #4 ACSR            | 7.15Y     | 119.1        | 0.00            | 5.87          | 0.50         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 9.880             | 0.068          | 3                 | 1 | 1          | 1            |
| PL.24110                 | PL.23974    | B   | #4 ACSR            | 7.15Y     | 119.1        | 0.01            | 5.88          | 1.60         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.967             | 0.154          | 3                 | 1 | 1          | 3            |
| PL.23978                 | PL.24110    | B   | #4 ACSR            | 7.15Y     | 119.1        | 0.00            | 5.88          | 0.79         | 1        | 5          | 2    | 93      | 0.00       | 0.0       | 10.094            | 0.127          | 5                 | 2 | 1          | 1            |
| PL.23979                 | PL.23978    | B   | #4 ACSR            | 7.15Y     | 119.1        | 0.00            | 5.88          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.172            | 0.077          | 0                 | 0 | 0          | 0            |
| PL.23977                 | PL.24110    | B   | #4 ACSR            | 7.15Y     | 119.1        | 0.00            | 5.88          | 0.43         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.022            | 0.055          | 3                 | 1 | 1          | 1            |
| PL.23973                 | PL.23972    | B   | #4 ACSR            | 7.15Y     | 119.2        | 0.00            | 5.78          | 2.08         | 2        | 14         | 4    | 96      | 0.00       | 0.0       | 9.095             | 0.063          | 14                | 4 | 2          | 2            |
| PL.23965                 | PL.23964    | B   | #4 ACSR            | 7.17Y     | 119.5        | 0.00            | 5.51          | 0.52         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 8.550             | 0.041          | 4                 | 1 | 1          | 1            |
| PL.23963                 | PL.24252    | B   | #4 ACSR            | 7.18Y     | 119.6        | 0.00            | 5.38          | 1.91         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 8.401             | 0.043          | 13                | 4 | 2          | 2            |
| PL.23961                 | PL.24250    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.00            | 5.25          | 1.64         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.226             | 0.014          | 0                 | 0 | 0          | 3            |
| PL.24107                 | PL.23961    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.00            | 5.25          | 0.76         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.269             | 0.043          | 5                 | 1 | 2          | 2            |
| PL.23962                 | PL.23961    | B   | #4 ACSR            | 7.19Y     | 119.8        | 0.00            | 5.25          | 0.88         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.269             | 0.043          | 6                 | 2 | 1          | 1            |
| PL.24338                 | PL.24337    | B   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.00            | 4.68          | 1.02         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 7.747             | 0.025          | 6                 | 2 | 1          | 2            |
| PL.24339                 | PL.24338    | B   | 6 A (CWC)          | 7.22Y     | 120.3        | 0.00            | 4.68          | 0.18         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.809             | 0.062          | 1                 | 0 | 1          | 1            |
| PL.24105                 | PL.23940    | ABC | 336 MCM AC         | 7.27Y     | 121.2        | 0.01            | 3.84          | 41.47        | 8        | 869        | 251  | 96      | 0.06       | 0.0       | 7.312             | 0.044          | 0                 | 0 | 0          | 191          |
| PL.23382                 | PL.24105    | ABC | 336 MCM AC         | 7.27Y     | 121.1        | 0.01            | 3.85          | 41.47        | 8        | 869        | 251  | 96      | 0.06       | 0.0       | 7.354             | 0.042          | 7                 | 2 | 1          | 191          |
| PL.23980                 | PL.23382    | ABC | 336 MCM AC         | 7.27Y     | 121.1        | 0.01            | 3.87          | 34.72        | 7        | 727        | 211  | 96      | 0.05       | 0.0       | 7.404             | 0.050          | 0                 | 0 | 0          | 156          |
| PL.24513                 | PL.23980    | ABC | 336 MCM AC         | 7.27Y     | 121.1        | 0.00            | 3.87          | 34.72        | 7        | 727        | 211  | 96      | 0.00       | 0.0       | 7.407             | 0.003          | 0                 | 0 | 0          | 156          |
| C PD.3451                | PL.24513    | ABC | 35L                | 7.27Y     | 121.1        | 0.00            | 3.87          | 34.72        | 99       | 727        | 211  | 96      | 0.00       | 0.0       | 7.407             | 0.003          | 0                 | 0 | 0          | 156 C        |
| PL.24514                 | PD.3451     | ABC | 336 MCM AC         | 7.27Y     | 121.1        | 0.04            | 3.91          | 34.72        | 7        | 727        | 211  | 96      | 0.16       | 0.0       | 7.564             | 0.158          | 0                 | 0 | 0          | 156          |
| PL.24113                 | PL.24514    | ABC | 336 MCM AC         | 7.26Y     | 121.1        | 0.02            | 3.93          | 34.21        | 7        | 716        | 207  | 96      | 0.09       | 0.0       | 7.658             | 0.094          | 0                 | 0 | 0          | 155          |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.24114                 | PL.24113    | ABC | 336 MCM AC         | 7.26Y     | 121.1        | 0.01            | 3.94          | 33.86        | 7        | 709        | 205  | 96      | 0.04       | 0.0       | 7.698             | 0.040          | 0                 | 0 | 0          | 154          |
| PL.24115                 | PL.24114    | ABC | 336 MCM AC         | 7.26Y     | 121.0        | 0.01            | 3.96          | 33.52        | 6        | 702        | 203  | 96      | 0.04       | 0.0       | 7.743             | 0.045          | 0                 | 0 | 1          | 153          |
| PL.23993                 | PL.24115    | ABC | 336 MCM AC         | 7.26Y     | 121.0        | 0.01            | 3.97          | 33.50        | 6        | 701        | 203  | 96      | 0.05       | 0.0       | 7.791             | 0.048          | 0                 | 0 | 0          | 152          |
| PL.24290                 | PL.23993    | ABC | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.97          | 1.81         | 1        | 38         | 11   | 96      | 0.00       | 0.0       | 7.814             | 0.023          | 0                 | 0 | 1          | 7            |
| PL.24489                 | PL.24290    | ABC | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.97          | 1.81         | 1        | 38         | 11   | 96      | 0.00       | 0.0       | 7.818             | 0.005          | 0                 | 0 | 0          | 6            |
| PD.3440                  | PL.24489    | ABC | 20T                | 7.26Y     | 121.0        | 0.00            | 3.97          | 1.81         | 0        | 38         | 11   | 96      | 0.00       | 0.0       | 7.818             | 0.005          | 0                 | 0 | 0          | 6            |
| PL.24490                 | PD.3440     | ABC | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.97          | 1.81         | 1        | 38         | 11   | 96      | 0.00       | 0.0       | 7.860             | 0.042          | 0                 | 0 | 0          | 6            |
| PL.24117                 | PL.24490    | ABC | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.98          | 1.13         | 1        | 24         | 7    | 96      | 0.00       | 0.0       | 7.937             | 0.077          | 0                 | 0 | 1          | 4            |
| PL.24288                 | PL.24117    | ABC | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.98          | 1.13         | 1        | 24         | 7    | 96      | 0.00       | 0.0       | 7.957             | 0.020          | 0                 | 0 | 0          | 3            |
| PL.24289                 | PL.24288    | ABC | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.98          | 1.13         | 1        | 24         | 7    | 96      | 0.00       | 0.0       | 8.047             | 0.090          | 0                 | 0 | 0          | 3            |
| PL.23995                 | PL.24289    | ABC | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.98          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.154             | 0.107          | 0                 | 0 | 1          | 1            |
| PL.23997                 | PL.24289    | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.98          | 3.38         | 3        | 24         | 7    | 96      | 0.00       | 0.0       | 8.052             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3414                  | PL.23997    | A   | 12T                | 7.26Y     | 121.0        | 0.00            | 3.98          | 3.38         | 0        | 24         | 7    | 96      | 0.00       | 0.0       | 8.052             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24118                 | PD.3414     | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.01            | 3.99          | 1.80         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 8.121             | 0.069          | 0                 | 0 | 0          | 1            |
| PL.24206                 | PL.24118    | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.01            | 3.99          | 1.80         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 8.268             | 0.146          | 13                | 4 | 1          | 1            |
| PL.23996                 | PD.3414     | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.98          | 1.58         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.114             | 0.063          | 11                | 3 | 1          | 1            |
| PL.24441                 | PL.24490    | B   | #1/0 ACSR          | 7.26Y     | 121.0        | 0.00            | 3.97          | 2.05         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 7.865             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3415                  | PL.24441    | B   | 12T                | 7.26Y     | 121.0        | 0.00            | 3.97          | 2.05         | 0        | 14         | 4    | 96      | 0.00       | 0.0       | 7.865             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24442                 | PD.3415     | B   | #1/0 ACSR          | 7.26Y     | 121.0        | 0.00            | 3.97          | 2.05         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 7.887             | 0.022          | 14                | 4 | 2          | 2            |
| PL.24309                 | PL.23993    | ABC | 336 MCM AC         | 7.26Y     | 121.0        | 0.01            | 3.98          | 30.57        | 6        | 640        | 185  | 96      | 0.03       | 0.0       | 7.833             | 0.042          | 0                 | 0 | 1          | 141          |
| PL.24310                 | PL.24309    | ABC | 336 MCM AC         | 7.26Y     | 121.0        | 0.01            | 3.99          | 30.57        | 6        | 640        | 185  | 96      | 0.03       | 0.0       | 7.875             | 0.043          | 1                 | 0 | 1          | 140          |
| PL.24119                 | PL.24310    | ABC | 336 MCM AC         | 7.26Y     | 121.0        | 0.01            | 4.00          | 23.51        | 5        | 492        | 143  | 96      | 0.03       | 0.0       | 7.949             | 0.074          | 9                 | 3 | 1          | 109          |
| PL.24324                 | PL.24119    | ABC | 336 MCM AC         | 7.26Y     | 121.0        | 0.01            | 4.01          | 23.08        | 4        | 483        | 141  | 96      | 0.03       | 0.0       | 8.016             | 0.067          | 5                 | 1 | 1          | 108          |
| PL.24325                 | PL.24324    | ABC | 336 MCM AC         | 7.26Y     | 121.0        | 0.02            | 4.03          | 22.84        | 4        | 478        | 139  | 96      | 0.05       | 0.0       | 8.135             | 0.119          | 0                 | 0 | 0          | 107          |
| PL.24006                 | PL.24325    | C   | #2 ACSR            | 7.26Y     | 121.0        | 0.00            | 4.03          | 1.66         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 8.139             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3432                  | PL.24006    | C   | 20T                | 7.26Y     | 121.0        | 0.00            | 4.03          | 1.66         | 0        | 12         | 3    | 97      | 0.00       | 0.0       | 8.139             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.24005                 | PD.3432     | C   | #2 ACSR            | 7.26Y     | 121.0        | 0.00            | 4.03          | 0.26         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.182             | 0.042          | 2                 | 1 | 1          | 1            |
| PL.24121                 | PD.3432     | C   | #2 ACSR            | 7.26Y     | 121.0        | 0.00            | 4.03          | 1.41         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 8.167             | 0.028          | 2                 | 1 | 1          | 2            |
| PL.24007                 | PL.24121    | C   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.00            | 4.03          | 1.08         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 8.219             | 0.052          | 8                 | 2 | 1          | 1            |
| PL.24227                 | PL.24325    | ABC | 336 MCM AC         | 7.26Y     | 121.0        | 0.01            | 4.04          | 22.29        | 4        | 466        | 136  | 96      | 0.02       | 0.0       | 8.177             | 0.042          | 3                 | 1 | 1          | 104          |
| PL.24228                 | PL.24227    | ABC | 336 MCM AC         | 7.26Y     | 120.9        | 0.03            | 4.07          | 21.03        | 4        | 439        | 128  | 96      | 0.07       | 0.0       | 8.354             | 0.177          | 0                 | 0 | 0          | 98           |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.24427                 | PL.24228    | C   | #2 ACSR            | 7.26Y     | 120.9        | 0.00            | 4.07          | 0.72         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 8.359             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3407                  | PL.24427    | C   | 20T                | 7.26Y     | 120.9        | 0.00            | 4.07          | 0.72         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 8.359             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24428                 | PD.3407     | C   | #2 ACSR            | 7.26Y     | 120.9        | 0.00            | 4.07          | 0.72         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 8.374             | 0.016          | 0                 | 0 | 0          | 1            |
| PL.24268                 | PL.24428    | C   | #2 ACSR            | 7.26Y     | 120.9        | 0.00            | 4.07          | 0.72         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 8.437             | 0.063          | 5                 | 1 | 1          | 1            |
| PL.23376                 | PL.24228    | ABC | 336 MCM AC         | 7.26Y     | 120.9        | 0.01            | 4.08          | 20.79        | 4        | 434        | 127  | 96      | 0.02       | 0.0       | 8.420             | 0.066          | 16                | 4 | 3          | 97           |
| PL.24277                 | PL.23376    | ABC | 336 MCM AC         | 7.26Y     | 120.9        | 0.00            | 4.08          | 17.00        | 3        | 355        | 104  | 96      | 0.01       | 0.0       | 8.449             | 0.030          | 1                 | 0 | 2          | 80           |
| PL.24279                 | PL.24277    | ABC | 336 MCM AC         | 7.25Y     | 120.9        | 0.01            | 4.09          | 16.94        | 3        | 354        | 104  | 96      | 0.01       | 0.0       | 8.494             | 0.045          | 8                 | 2 | 2          | 78           |
| PL.24280                 | PL.24279    | ABC | 336 MCM AC         | 7.25Y     | 120.9        | 0.00            | 4.09          | 16.57        | 3        | 346        | 102  | 96      | 0.01       | 0.0       | 8.534             | 0.040          | 3                 | 1 | 1          | 76           |
| PL.24278                 | PL.24280    | ABC | 336 MCM AC         | 7.25Y     | 120.9        | 0.01            | 4.10          | 16.42        | 3        | 343        | 101  | 96      | 0.02       | 0.0       | 8.643             | 0.109          | 0                 | 0 | 0          | 75           |
| PL.24025                 | PL.24278    | ABC | 336 MCM AC         | 7.25Y     | 120.9        | 0.01            | 4.12          | 15.76        | 3        | 329        | 97   | 96      | 0.02       | 0.0       | 8.756             | 0.113          | 0                 | 0 | 0          | 72           |
| PL.24207                 | PL.24025    | ABC | 336 MCM AC         | 7.25Y     | 120.9        | 0.01            | 4.13          | 15.76        | 3        | 329        | 97   | 96      | 0.02       | 0.0       | 8.863             | 0.107          | 0                 | 0 | 0          | 72           |
| PL.24124                 | PL.24207    | ABC | 336 MCM AC         | 7.25Y     | 120.9        | 0.00            | 4.13          | 13.15        | 3        | 274        | 81   | 96      | 0.00       | 0.0       | 8.887             | 0.025          | 0                 | 0 | 0          | 62           |
| PL.24431                 | PL.24124    | ABC | 336 MCM AC         | 7.25Y     | 120.9        | 0.00            | 4.13          | 11.56        | 2        | 241        | 72   | 96      | 0.00       | 0.0       | 8.892             | 0.004          | 0                 | 0 | 0          | 55           |
| PL.24432                 | PL.24431    | ABC | 336 MCM AC         | 7.25Y     | 120.9        | 0.01            | 4.14          | 11.56        | 2        | 241        | 72   | 96      | 0.01       | 0.0       | 9.004             | 0.112          | 0                 | 0 | 0          | 55           |
| PL.24495                 | PL.24432    | ABC | 336 MCM AC         | 7.25Y     | 120.9        | 0.00            | 4.14          | 10.66        | 2        | 223        | 63   | 96      | 0.00       | 0.0       | 9.008             | 0.005          | 0                 | 0 | 0          | 54           |
| PL.24496                 | PL.24495    | ABC | 336 MCM AC         | 7.25Y     | 120.9        | 0.00            | 4.15          | 10.66        | 2        | 223        | 63   | 96      | 0.00       | 0.0       | 9.046             | 0.037          | 0                 | 0 | 0          | 54           |
| PL.24126                 | PL.24496    | ABC | 336 MCM AC         | 7.25Y     | 120.8        | 0.00            | 4.15          | 10.26        | 2        | 215        | 61   | 96      | 0.01       | 0.0       | 9.105             | 0.059          | 0                 | 0 | 0          | 53           |
| PL.24127                 | PL.24126    | ABC | 336 MCM AC         | 7.25Y     | 120.8        | 0.01            | 4.16          | 9.82         | 2        | 206        | 58   | 96      | 0.01       | 0.0       | 9.180             | 0.075          | 0                 | 0 | 0          | 51           |
| PL.24284                 | PL.24127    | ABC | 336 MCM AC         | 7.25Y     | 120.8        | 0.00            | 4.16          | 9.34         | 2        | 195        | 55   | 96      | 0.00       | 0.0       | 9.238             | 0.058          | 3                 | 1 | 1          | 49           |
| PL.24285                 | PL.24284    | ABC | 336 MCM AC         | 7.25Y     | 120.8        | 0.01            | 4.17          | 9.21         | 2        | 193        | 55   | 96      | 0.01       | 0.0       | 9.339             | 0.101          | 0                 | 0 | 0          | 48           |
| PL.24035                 | PL.24285    | ABC | 336 MCM AC         | 7.25Y     | 120.8        | 0.01            | 4.17          | 9.21         | 2        | 193        | 54   | 96      | 0.01       | 0.0       | 9.417             | 0.078          | 0                 | 0 | 0          | 48           |
| PL.24128                 | PL.24035    | ABC | 336 MCM AC         | 7.25Y     | 120.8        | 0.01            | 4.18          | 9.21         | 2        | 193        | 54   | 96      | 0.01       | 0.0       | 9.501             | 0.084          | 0                 | 0 | 0          | 47           |
| PL.24245                 | PL.24128    | ABC | 336 MCM AC         | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.86         | 0        | 18         | 5    | 96      | 0.00       | 0.0       | 9.533             | 0.032          | 0                 | 0 | 1          | 6            |
| PL.24246                 | PL.24245    | ABC | 336 MCM AC         | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.85         | 0        | 18         | 5    | 96      | 0.00       | 0.0       | 9.578             | 0.045          | 1                 | 0 | 1          | 5            |
| PL.24229                 | PL.24246    | ABC | 336 MCM AC         | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.650             | 0.072          | 0                 | 0 | 0          | 0            |
| PL.18961                 | PL.24229    | ABC | 336 MCM AC         | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.655             | 0.005          | 0                 | 0 | 0          | 0            |
| PD.2824-B                | PL.18961    | ABC | Open               | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.655             | 0.005          | 0                 | 0 | 0          | 0            |
| PL.24375                 | PL.24246    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.18          | 2.48         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 9.582             | 0.005          | 0                 | 0 | 0          | 4            |
| PD.3380                  | PL.24375    | A   | 25T                | 7.25Y     | 120.8        | 0.00            | 4.18          | 2.48         | 0        | 17         | 5    | 96      | 0.00       | 0.0       | 9.582             | 0.005          | 0                 | 0 | 0          | 4            |
| PL.24376                 | PD.3380     | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.18          | 2.48         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 9.621             | 0.038          | 3                 | 1 | 1          | 4            |
| PL.24037                 | PL.24376    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.19          | 2.11         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 9.647             | 0.026          | 15                | 4 | 3          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.24481                 | PL.24128    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 9.505             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3436                  | PL.24481    | C   | 25T                | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 9.505             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24482                 | PD.3436     | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 9.572             | 0.067          | 5                 | 1 | 1          | 1            |
| PL.24036                 | PL.24482    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.640             | 0.067          | 0                 | 0 | 0          | 0            |
| PL.24377                 | PL.24128    | A   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.18          | 24.39        | 17       | 170        | 48   | 96      | 0.01       | 0.0       | 9.505             | 0.004          | 0                 | 0 | 0          | 40           |
| PD.3381                  | PL.24377    | A   | 25T                | 7.25Y     | 120.8        | 0.00            | 4.18          | 24.39        | 0        | 170        | 48   | 96      | 0.00       | 0.0       | 9.505             | 0.004          | 0                 | 0 | 0          | 40           |
| PL.24378                 | PD.3381     | A   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.03            | 4.22          | 24.39        | 17       | 170        | 48   | 96      | 0.04       | 0.0       | 9.534             | 0.028          | 1                 | 0 | 1          | 40           |
| PL.24038                 | PL.24378    | A   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.03            | 4.25          | 24.26        | 17       | 169        | 48   | 96      | 0.04       | 0.0       | 9.563             | 0.029          | 0                 | 0 | 1          | 39           |
| PL.23401                 | PL.24038    | A   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.01            | 4.26          | 2.58         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 9.662             | 0.099          | 7                 | 2 | 2          | 4            |
| PL.23400                 | PL.23401    | A   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.26          | 1.61         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.747             | 0.085          | 5                 | 1 | 1          | 2            |
| PL.23398                 | PL.23400    | A   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.26          | 0.93         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.768             | 0.021          | 6                 | 2 | 1          | 1            |
| PL.24241                 | PL.24038    | A   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.04            | 4.29          | 21.68        | 15       | 151        | 43   | 96      | 0.04       | 0.0       | 9.606             | 0.043          | 24                | 7 | 4          | 34           |
| PL.24242                 | PL.24241    | A   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.03            | 4.32          | 18.31        | 13       | 128        | 36   | 96      | 0.03       | 0.0       | 9.641             | 0.035          | 0                 | 0 | 0          | 30           |
| PL.23399                 | PL.24242    | A   | #4 ACSR            | 7.24Y     | 120.7        | 0.02            | 4.34          | 5.50         | 4        | 38         | 11   | 96      | 0.01       | 0.0       | 9.736             | 0.095          | 13                | 4 | 2          | 7            |
| PL.24286                 | PL.23399    | A   | #4 ACSR            | 7.24Y     | 120.7        | 0.01            | 4.35          | 3.57         | 3        | 25         | 7    | 96      | 0.00       | 0.0       | 9.795             | 0.059          | 4                 | 1 | 1          | 5            |
| PL.24287                 | PL.24286    | A   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.35          | 3.00         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 9.829             | 0.034          | 2                 | 1 | 1          | 4            |
| PL.24226                 | PL.24287    | A   | #4 ACSR            | 7.24Y     | 120.6        | 0.00            | 4.35          | 1.76         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 9.861             | 0.032          | 4                 | 1 | 1          | 2            |
| PL.24225                 | PL.24226    | A   | #4 ACSR            | 7.24Y     | 120.6        | 0.00            | 4.35          | 1.21         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.903             | 0.043          | 8                 | 2 | 1          | 1            |
| PL.24042                 | PL.24226    | A   | #4 ACSR            | 7.24Y     | 120.6        | 0.00            | 4.35          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.906             | 0.045          | 0                 | 0 | 0          | 0            |
| PL.24041                 | PL.24287    | A   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.35          | 0.91         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 9.847             | 0.019          | 6                 | 2 | 1          | 1            |
| PL.24039                 | PL.24242    | A   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.32          | 1.10         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.692             | 0.051          | 8                 | 2 | 1          | 1            |
| PL.24040                 | PL.24242    | A   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.01            | 4.33          | 11.71        | 8        | 82         | 23   | 96      | 0.01       | 0.0       | 9.665             | 0.024          | 3                 | 1 | 1          | 22           |
| PL.24243                 | PL.24040    | A   | #4 ACSR            | 7.24Y     | 120.6        | 0.02            | 4.35          | 11.25        | 9        | 78         | 22   | 96      | 0.01       | 0.0       | 9.707             | 0.042          | 6                 | 2 | 2          | 21           |
| PL.24244                 | PL.24243    | A   | #4 ACSR            | 7.24Y     | 120.6        | 0.04            | 4.39          | 10.41        | 8        | 72         | 20   | 96      | 0.02       | 0.0       | 9.789             | 0.082          | 0                 | 0 | 0          | 19           |
| PL.24236                 | PL.24244    | A   | #4 ACSR            | 7.24Y     | 120.6        | 0.00            | 4.39          | 0.16         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 9.852             | 0.063          | 0                 | 0 | 2          | 3            |
| PL.24237                 | PL.24236    | A   | #4 ACSR            | 7.24Y     | 120.6        | 0.00            | 4.39          | 0.15         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 9.888             | 0.036          | 1                 | 0 | 1          | 1            |
| PL.24238                 | PL.24244    | A   | #4 ACSR            | 7.24Y     | 120.6        | 0.02            | 4.41          | 10.24        | 8        | 71         | 20   | 96      | 0.01       | 0.0       | 9.835             | 0.047          | 0                 | 0 | 1          | 16           |
| PL.24239                 | PL.24238    | A   | #4 ACSR            | 7.23Y     | 120.6        | 0.03            | 4.44          | 10.24        | 8        | 71         | 20   | 96      | 0.02       | 0.0       | 9.906             | 0.071          | 8                 | 2 | 1          | 15           |
| PL.24240                 | PL.24239    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.01            | 4.45          | 9.16         | 7        | 64         | 18   | 96      | 0.01       | 0.0       | 9.936             | 0.030          | 0                 | 0 | 0          | 14           |
| PL.24234                 | PL.24240    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.01            | 4.46          | 9.08         | 7        | 63         | 18   | 96      | 0.00       | 0.0       | 9.963             | 0.027          | 7                 | 2 | 1          | 13           |
| PL.24235                 | PL.24234    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.01            | 4.47          | 8.05         | 6        | 56         | 16   | 96      | 0.00       | 0.0       | 9.993             | 0.029          | 0                 | 0 | 0          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.24129                 | PL.24235    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.02            | 4.50          | 8.05         | 6        | 56         | 16   | 96      | 0.01       | 0.0       | 10.057            | 0.064          | 0                 | 0 | 0          | 12           |
| PL.24045                 | PL.24129    | A   | #1/0 ACSR          | 7.23Y     | 120.5        | 0.00            | 4.50          | 0.72         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 10.093            | 0.036          | 5                 | 1 | 1          | 1            |
| PL.24130                 | PL.24129    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.50          | 7.33         | 6        | 51         | 14   | 96      | 0.00       | 0.0       | 10.070            | 0.013          | 0                 | 0 | 0          | 11           |
| PL.24232                 | PL.24130    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.02            | 4.52          | 7.33         | 6        | 51         | 14   | 96      | 0.01       | 0.0       | 10.141            | 0.071          | 0                 | 0 | 1          | 11           |
| PL.24233                 | PL.24232    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.03            | 4.55          | 7.33         | 6        | 51         | 14   | 96      | 0.01       | 0.0       | 10.218            | 0.077          | 0                 | 0 | 0          | 10           |
| PL.24222                 | PL.24233    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.01            | 4.56          | 4.59         | 4        | 32         | 9    | 96      | 0.00       | 0.0       | 10.272            | 0.054          | 4                 | 1 | 1          | 7            |
| PL.24223                 | PL.24222    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.01            | 4.57          | 2.92         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 10.320            | 0.048          | 0                 | 0 | 0          | 5            |
| PL.23397                 | PL.24223    | A   | #1/0 ACSR          | 7.23Y     | 120.4        | 0.00            | 4.57          | 2.92         | 1        | 20         | 6    | 96      | 0.00       | 0.0       | 10.350            | 0.030          | 13                | 4 | 3          | 5            |
| PL.24230                 | PL.23397    | A   | #1/0 ACSR          | 7.23Y     | 120.4        | 0.00            | 4.57          | 1.11         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 10.387            | 0.037          | 2                 | 0 | 1          | 2            |
| PL.24231                 | PL.24230    | A   | #1/0 ACSR          | 7.23Y     | 120.4        | 0.00            | 4.57          | 0.86         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 10.415            | 0.028          | 6                 | 2 | 1          | 1            |
| PL.24046                 | PL.24222    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.56          | 1.06         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 10.310            | 0.039          | 7                 | 2 | 1          | 1            |
| PL.23395                 | PL.24233    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.55          | 2.74         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 10.239            | 0.021          | 0                 | 0 | 1          | 3            |
| PL.23396                 | PL.23395    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.01            | 4.56          | 2.73         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 10.415            | 0.176          | 19                | 5 | 2          | 2            |
| PL.24044                 | PL.24235    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.47          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.018            | 0.025          | 0                 | 0 | 0          | 0            |
| PL.24043                 | PL.24240    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.45          | 0.08         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 9.976             | 0.040          | 1                 | 0 | 1          | 1            |
| PL.24439                 | PL.24035    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.17          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.422             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3413                  | PL.24439    | C   | 25T                | 7.25Y     | 120.8        | 0.00            | 4.17          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.422             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24440                 | PD.3413     | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.17          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.485             | 0.063          | 0                 | 0 | 1          | 1            |
| PL.24437                 | PL.24127    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.16          | 1.45         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 9.185             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3412                  | PL.24437    | C   | 25T                | 7.25Y     | 120.8        | 0.00            | 4.16          | 1.45         | 0        | 10         | 3    | 96      | 0.00       | 0.0       | 9.185             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24438                 | PD.3412     | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.16          | 1.45         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 9.252             | 0.067          | 10                | 3 | 2          | 2            |
| PL.24479                 | PL.24126    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.15          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 9.110             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3435                  | PL.24479    | C   | 20T                | 7.25Y     | 120.8        | 0.00            | 4.15          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 9.110             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24480                 | PD.3435     | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.15          | 0.34         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 9.150             | 0.040          | 2                 | 1 | 1          | 1            |
| PL.24488                 | PL.24126    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.15          | 0.97         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 9.110             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3439                  | PL.24488    | C   | 20T                | 7.25Y     | 120.8        | 0.00            | 4.15          | 0.97         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 9.110             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24487                 | PD.3439     | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.15          | 0.97         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 9.212             | 0.102          | 7                 | 2 | 1          | 1            |
| PL.24435                 | PL.24496    | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.15          | 1.20         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.051             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3411                  | PL.24435    | C   | 20T                | 7.25Y     | 120.9        | 0.00            | 4.15          | 1.20         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 9.051             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24436                 | PD.3411     | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.15          | 1.20         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.107             | 0.056          | 8                 | 2 | 1          | 1            |
| PL.24493                 | PL.24432    | ABC | #1/0 ACSR          | 7.25Y     | 120.9        | 0.00            | 4.14          | 0.92         | 0        | 18         | 9    | 89      | 0.00       | 0.0       | 9.009             | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PD.3442                  | PL.24493    | ABC | 20T                | 7.25Y     | 120.9        | 0.00            | 4.14          | 0.92         | 0        | 18         | 9    | 89      | 0.00       | 0.0       | 9.009             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24494                 | PD.3442     | ABC | #1/0 ACSR          | 7.25Y     | 120.9        | 0.00            | 4.14          | 0.92         | 0        | 18         | 9    | 89      | 0.00       | 0.0       | 9.022             | 0.014          | 18                | 9 | 1          | 1            |
| PL.24433                 | PL.24124    | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 4.78         | 4        | 33         | 9    | 96      | 0.00       | 0.0       | 8.892             | 0.005          | 0                 | 0 | 0          | 7            |
| PD.3410                  | PL.24433    | A   | 20T                | 7.25Y     | 120.9        | 0.00            | 4.13          | 4.78         | 0        | 33         | 9    | 96      | 0.00       | 0.0       | 8.892             | 0.005          | 0                 | 0 | 0          | 7            |
| PL.24434                 | PD.3410     | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.01            | 4.15          | 4.78         | 4        | 33         | 9    | 96      | 0.00       | 0.0       | 8.946             | 0.055          | 7                 | 2 | 2          | 7            |
| PL.24034                 | PL.24434    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.16          | 3.76         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 9.042             | 0.096          | 4                 | 1 | 1          | 5            |
| PL.24282                 | PL.24034    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.17          | 3.11         | 2        | 22         | 6    | 96      | 0.00       | 0.0       | 9.135             | 0.092          | 6                 | 2 | 1          | 4            |
| PL.24283                 | PL.24282    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.17          | 2.23         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 9.211             | 0.076          | 16                | 4 | 3          | 3            |
| PL.24477                 | PL.24207    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 6.31         | 4        | 44         | 12   | 96      | 0.00       | 0.0       | 8.867             | 0.005          | 0                 | 0 | 0          | 8            |
| PD.3434                  | PL.24477    | C   | 20T                | 7.25Y     | 120.9        | 0.00            | 4.13          | 6.31         | 0        | 44         | 12   | 96      | 0.00       | 0.0       | 8.867             | 0.005          | 0                 | 0 | 0          | 8            |
| PL.24478                 | PD.3434     | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.01            | 4.14          | 6.31         | 4        | 44         | 12   | 96      | 0.00       | 0.0       | 8.908             | 0.040          | 5                 | 2 | 1          | 8            |
| PL.24281                 | PL.24478    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.14          | 5.52         | 3        | 39         | 11   | 96      | 0.00       | 0.0       | 8.935             | 0.028          | 0                 | 0 | 0          | 7            |
| PL.24026                 | PL.24281    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.15          | 2.87         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 9.001             | 0.066          | 20                | 6 | 2          | 2            |
| PL.24125                 | PL.24281    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.15          | 2.65         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 8.972             | 0.037          | 10                | 3 | 2          | 5            |
| PL.24028                 | PL.24125    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.15          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.019             | 0.047          | 0                 | 0 | 0          | 0            |
| PL.24027                 | PL.24125    | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.15          | 0.58         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.031             | 0.059          | 4                 | 1 | 1          | 1            |
| PL.24029                 | PL.24125    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.15          | 0.65         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 9.098             | 0.125          | 0                 | 0 | 0          | 2            |
| PL.24030                 | PL.24029    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.15          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.186             | 0.089          | 0                 | 0 | 1          | 1            |
| PL.24031                 | PL.24029    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.15          | 0.64         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.184             | 0.087          | 0                 | 0 | 0          | 1            |
| PL.24208                 | PL.24031    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.16          | 0.64         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.269             | 0.084          | 0                 | 0 | 0          | 1            |
| PL.24209                 | PL.24208    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.16          | 0.64         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.337             | 0.068          | 0                 | 0 | 0          | 1            |
| PL.24032                 | PL.24209    | C   | #1/0 ACSR          | 7.25Y     | 120.8        | 0.00            | 4.16          | 0.64         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.425             | 0.088          | 0                 | 0 | 0          | 1            |
| PL.24033                 | PL.24032    | C   | #1/0 ACSR          | 7.25Y     | 120.8        | 0.00            | 4.16          | 0.64         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 9.528             | 0.103          | 4                 | 1 | 1          | 1            |
| PL.24429                 | PL.24207    | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.867             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3409                  | PL.24429    | A   | 20T                | 7.25Y     | 120.9        | 0.00            | 4.13          | 1.51         | 0        | 11         | 3    | 96      | 0.00       | 0.0       | 8.867             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24430                 | PD.3409     | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.895             | 0.027          | 11                | 3 | 2          | 2            |
| PL.24023                 | PL.24278    | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.11          | 1.97         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 8.647             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3408                  | PL.24023    | C   | 20T                | 7.25Y     | 120.9        | 0.00            | 4.11          | 1.97         | 0        | 14         | 4    | 96      | 0.00       | 0.0       | 8.647             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.24123                 | PD.3408     | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.11          | 0.14         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.683             | 0.036          | 1                 | 0 | 1          | 1            |
| PL.24024                 | PD.3408     | C   | #2 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.11          | 1.83         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 8.689             | 0.041          | 13                | 4 | 2          | 2            |
| PL.24475                 | PL.23376    | C   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.00            | 4.08          | 9.10         | 7        | 64         | 18   | 96      | 0.00       | 0.0       | 8.424             | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PD.3433                  | PL.24475    | C   | 20T                | 7.26Y     | 120.9        | 0.00            | 4.08          | 9.10         | 0        | 64         | 18   | 96      | 0.00       | 0.0       | 8.424             | 0.005          | 0                 | 0 | 0          | 14           |
| PL.24476                 | PD.3433     | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.02            | 4.10          | 9.10         | 7        | 64         | 18   | 96      | 0.01       | 0.0       | 8.468             | 0.043          | 0                 | 0 | 1          | 14           |
| PL.24275                 | PL.24476    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.02            | 4.12          | 9.08         | 6        | 63         | 18   | 96      | 0.01       | 0.0       | 8.526             | 0.058          | 0                 | 0 | 1          | 13           |
| PL.24276                 | PL.24275    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.03            | 4.15          | 9.08         | 6        | 63         | 18   | 96      | 0.01       | 0.0       | 8.592             | 0.066          | 3                 | 1 | 1          | 12           |
| PL.24274                 | PL.24276    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.16          | 8.67         | 6        | 61         | 17   | 96      | 0.01       | 0.0       | 8.627             | 0.035          | 7                 | 2 | 1          | 11           |
| PL.24273                 | PL.24274    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.17          | 7.70         | 5        | 54         | 15   | 96      | 0.00       | 0.0       | 8.661             | 0.034          | 3                 | 1 | 1          | 10           |
| PL.24272                 | PL.24273    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.02            | 4.19          | 7.30         | 5        | 51         | 14   | 96      | 0.01       | 0.0       | 8.708             | 0.047          | 0                 | 0 | 0          | 9            |
| PL.24270                 | PL.24272    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.20          | 7.30         | 5        | 51         | 14   | 96      | 0.01       | 0.0       | 8.758             | 0.051          | 15                | 4 | 3          | 9            |
| PL.24271                 | PL.24270    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.02            | 4.22          | 5.19         | 4        | 36         | 10   | 96      | 0.01       | 0.0       | 8.836             | 0.078          | 0                 | 0 | 0          | 6            |
| PL.24269                 | PL.24271    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.24          | 5.19         | 4        | 36         | 10   | 96      | 0.00       | 0.0       | 8.911             | 0.074          | 13                | 4 | 2          | 6            |
| PL.23386                 | PL.24269    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.24          | 2.12         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.978             | 0.067          | 0                 | 0 | 0          | 2            |
| PL.24012                 | PL.23386    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.24          | 2.12         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 9.004             | 0.027          | 8                 | 2 | 1          | 2            |
| PL.24122                 | PL.24012    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.25          | 0.96         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 9.024             | 0.020          | 0                 | 0 | 0          | 1            |
| PL.24011                 | PL.24122    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.25          | 0.96         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 9.111             | 0.086          | 7                 | 2 | 1          | 1            |
| PL.24010                 | PL.24122    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.25          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.069             | 0.044          | 0                 | 0 | 0          | 0            |
| PL.24008                 | PL.24269    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.66         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.934             | 0.023          | 5                 | 1 | 1          | 1            |
| PL.24009                 | PL.24269    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.24          | 0.59         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 8.961             | 0.050          | 4                 | 1 | 1          | 1            |
| PL.24455                 | PL.24227    | A   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.00            | 4.04          | 3.41         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 8.181             | 0.005          | 0                 | 0 | 0          | 5            |
| PD.3422                  | PL.24455    | A   | 20T                | 7.26Y     | 121.0        | 0.00            | 4.04          | 3.41         | 0        | 24         | 7    | 96      | 0.00       | 0.0       | 8.181             | 0.005          | 0                 | 0 | 0          | 5            |
| PL.24456                 | PD.3422     | A   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.00            | 4.04          | 3.41         | 2        | 24         | 7    | 96      | 0.00       | 0.0       | 8.204             | 0.023          | 3                 | 1 | 1          | 5            |
| PL.24327                 | PL.24456    | A   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.01            | 4.05          | 2.93         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 8.259             | 0.054          | 2                 | 1 | 1          | 4            |
| PL.24326                 | PL.24327    | A   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.01            | 4.06          | 2.66         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 8.394             | 0.135          | 19                | 5 | 3          | 3            |
| PL.24453                 | PL.24310    | B   | #1/0 ACSR          | 7.26Y     | 121.0        | 0.00            | 3.99          | 20.96        | 9        | 146        | 41   | 96      | 0.00       | 0.0       | 7.880             | 0.005          | 0                 | 0 | 0          | 30           |
| PD.3421                  | PL.24453    | B   | 20T                | 7.26Y     | 121.0        | 0.00            | 3.99          | 20.96        | 0        | 146        | 41   | 96      | 0.00       | 0.0       | 7.880             | 0.005          | 0                 | 0 | 0          | 30           |
| PL.24454                 | PD.3421     | B   | #1/0 ACSR          | 7.26Y     | 121.0        | 0.02            | 4.01          | 20.96        | 9        | 146        | 41   | 96      | 0.02       | 0.0       | 7.917             | 0.037          | 10                | 3 | 1          | 30           |
| PL.24322                 | PL.24454    | B   | #4 ACSR            | 7.26Y     | 121.0        | 0.02            | 4.02          | 5.13         | 4        | 36         | 10   | 96      | 0.00       | 0.0       | 7.988             | 0.071          | 0                 | 0 | 0          | 4            |
| PL.24323                 | PL.24322    | B   | #4 ACSR            | 7.26Y     | 121.0        | 0.01            | 4.03          | 5.13         | 4        | 36         | 10   | 96      | 0.00       | 0.0       | 8.044             | 0.056          | 8                 | 2 | 1          | 4            |
| PL.23999                 | PL.24323    | B   | #4 ACSR            | 7.26Y     | 121.0        | 0.01            | 4.05          | 3.94         | 3        | 28         | 8    | 96      | 0.00       | 0.0       | 8.107             | 0.063          | 0                 | 0 | 0          | 3            |
| PL.24320                 | PL.23999    | B   | #1/0 ACSR          | 7.26Y     | 120.9        | 0.01            | 4.05          | 3.94         | 2        | 28         | 8    | 96      | 0.00       | 0.0       | 8.186             | 0.079          | 10                | 3 | 1          | 3            |
| PL.24321                 | PL.24320    | B   | #1/0 ACSR          | 7.26Y     | 120.9        | 0.01            | 4.06          | 2.49         | 1        | 17         | 5    | 96      | 0.00       | 0.0       | 8.309             | 0.123          | 0                 | 0 | 0          | 2            |
| PL.24004                 | PL.24321    | B   | #1/0 ACSR          | 7.26Y     | 120.9        | 0.00            | 4.06          | 2.49         | 1        | 17         | 5    | 96      | 0.00       | 0.0       | 8.457             | 0.148          | 17                | 5 | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.23998                 | PL.24454    | B   | #2 ACSR            | 7.26Y     | 120.9        | 0.06            | 4.06          | 13.93        | 8        | 97         | 28   | 96      | 0.04       | 0.0       | 8.048             | 0.131          | 6                 | 2 | 1          | 24           |
| PL.24000                 | PL.23998    | B   | #2 ACSR            | 7.25Y     | 120.9        | 0.03            | 4.09          | 11.15        | 6        | 78         | 22   | 96      | 0.02       | 0.0       | 8.140             | 0.092          | 6                 | 2 | 2          | 21           |
| PL.24318                 | PL.24000    | B   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.03            | 4.12          | 10.23        | 7        | 71         | 20   | 96      | 0.01       | 0.0       | 8.205             | 0.065          | 8                 | 2 | 4          | 19           |
| PL.24319                 | PL.24318    | B   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.02            | 4.15          | 9.07         | 6        | 63         | 18   | 96      | 0.01       | 0.0       | 8.263             | 0.057          | 2                 | 0 | 1          | 15           |
| PL.24317                 | PL.24319    | B   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.16          | 8.85         | 6        | 62         | 17   | 96      | 0.01       | 0.0       | 8.295             | 0.033          | 4                 | 1 | 1          | 14           |
| PL.24345                 | PL.24317    | B   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.16          | 1.31         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 8.314             | 0.019          | 2                 | 1 | 1          | 3            |
| PL.24346                 | PL.24345    | B   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.16          | 0.96         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 8.419             | 0.104          | 7                 | 2 | 2          | 2            |
| PL.24002                 | PL.24317    | B   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.05            | 4.20          | 7.01         | 5        | 49         | 14   | 96      | 0.02       | 0.0       | 8.439             | 0.143          | 1                 | 0 | 1          | 10           |
| PL.24003                 | PL.24002    | B   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.06            | 4.26          | 6.91         | 5        | 48         | 14   | 96      | 0.02       | 0.0       | 8.629             | 0.190          | 2                 | 1 | 1          | 9            |
| PL.24013                 | PL.24003    | B   | #4 ACSR            | 7.24Y     | 120.7        | 0.02            | 4.28          | 6.65         | 5        | 46         | 13   | 96      | 0.01       | 0.0       | 8.686             | 0.057          | 0                 | 0 | 0          | 8            |
| PL.24120                 | PL.24013    | B   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.28          | 1.18         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 8.715             | 0.029          | 4                 | 1 | 2          | 3            |
| PL.24014                 | PL.24120    | B   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.28          | 0.63         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 8.878             | 0.163          | 4                 | 1 | 1          | 1            |
| PL.24314                 | PL.24013    | B   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.01            | 4.29          | 3.77         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 8.733             | 0.047          | 0                 | 0 | 0          | 4            |
| PL.24313                 | PL.24314    | B   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.01            | 4.30          | 3.77         | 3        | 26         | 7    | 97      | 0.00       | 0.0       | 8.789             | 0.056          | 15                | 4 | 2          | 4            |
| PL.24311                 | PL.24313    | B   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.30          | 1.68         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 8.824             | 0.035          | 6                 | 2 | 1          | 2            |
| PL.24312                 | PL.24311    | B   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.30          | 0.88         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.874             | 0.050          | 6                 | 2 | 1          | 1            |
| PL.24315                 | PL.24013    | B   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.28          | 1.70         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 8.723             | 0.037          | 12                | 3 | 1          | 1            |
| PL.24316                 | PL.24315    | B   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.00            | 4.28          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.780             | 0.057          | 0                 | 0 | 0          | 0            |
| PL.24001                 | PL.23998    | B   | 6 A (CWC)          | 7.26Y     | 120.9        | 0.00            | 4.06          | 1.88         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 8.079             | 0.031          | 13                | 4 | 2          | 2            |
| PL.23378                 | PL.24454    | B   | #1/0 ACSR          | 7.26Y     | 121.0        | 0.00            | 4.01          | 0.44         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 7.957             | 0.040          | 3                 | 1 | 1          | 1            |
| PL.24443                 | PL.23993    | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.97          | 3.37         | 3        | 24         | 7    | 96      | 0.00       | 0.0       | 7.795             | 0.005          | 0                 | 0 | 0          | 4            |
| PD.3416                  | PL.24443    | A   | 20T                | 7.26Y     | 121.0        | 0.00            | 3.97          | 3.37         | 0        | 24         | 7    | 96      | 0.00       | 0.0       | 7.795             | 0.005          | 0                 | 0 | 0          | 4            |
| PL.24444                 | PD.3416     | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.97          | 3.37         | 3        | 24         | 7    | 96      | 0.00       | 0.0       | 7.809             | 0.014          | 0                 | 0 | 0          | 4            |
| PL.23994                 | PL.24444    | A   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.00            | 3.97          | 2.85         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 7.858             | 0.049          | 20                | 6 | 2          | 2            |
| PL.24116                 | PL.24444    | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 3.97          | 0.52         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 7.848             | 0.038          | 4                 | 1 | 2          | 2            |
| PL.24445                 | PL.24114    | C   | #1/0 ACSR          | 7.26Y     | 121.1        | 0.00            | 3.94          | 1.02         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 7.702             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3417                  | PL.24445    | C   | 20T                | 7.26Y     | 121.1        | 0.00            | 3.94          | 1.02         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 7.702             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24446                 | PD.3417     | C   | #1/0 ACSR          | 7.26Y     | 121.1        | 0.00            | 3.95          | 1.02         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 7.831             | 0.129          | 7                 | 2 | 1          | 1            |
| PL.24447                 | PL.24113    | C   | #2 ACSR            | 7.26Y     | 121.1        | 0.00            | 3.93          | 1.03         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 7.663             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3418                  | PL.24447    | C   | 20T                | 7.26Y     | 121.1        | 0.00            | 3.93          | 1.03         | 0        | 7          | 2    | 96      | 0.00       | 0.0       | 7.663             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24448                 | PD.3418     | C   | #2 ACSR            | 7.26Y     | 121.1        | 0.00            | 3.93          | 1.03         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 7.675             | 0.012          | 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

Balanced Voltage Drop Report  
Source: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.24449                 | PL.24514    | C   | #4 ACSR            | 7.27Y     | 121.1        | 0.00            | 3.91          | 1.53         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 7.569             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3419                  | PL.24449    | C   | 20T                | 7.27Y     | 121.1        | 0.00            | 3.91          | 1.53         | 0        | 11         | 3    | 96      | 0.00       | 0.0       | 7.569             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24450                 | PD.3419     | C   | #4 ACSR            | 7.27Y     | 121.1        | 0.00            | 3.91          | 1.53         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 7.581             | 0.013          | 11                | 3 | 1          | 1            |
| PL.23383                 | PL.23382    | ABC | 336 MCM AC         | 7.27Y     | 121.1        | 0.00            | 3.86          | 6.44         | 1        | 135        | 38   | 96      | 0.00       | 0.0       | 7.377             | 0.023          | 0                 | 0 | 0          | 34           |
| PL.24509                 | PL.23383    | A   | 6 A (CWC)          | 7.26Y     | 121.1        | 0.07            | 3.93          | 19.19        | 14       | 134        | 38   | 96      | 0.08       | 0.1       | 7.462             | 0.085          | 0                 | 0 | 0          | 32           |
| PD.3449                  | PL.24509    | A   | 35L                | 7.26Y     | 121.1        | 0.00            | 3.93          | 19.19        | 55       | 134        | 38   | 96      | 0.00       | 0.0       | 7.462             | 0.085          | 0                 | 0 | 0          | 32           |
| PL.24510                 | PD.3449     | A   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.07            | 4.00          | 19.19        | 14       | 134        | 38   | 96      | 0.07       | 0.1       | 7.544             | 0.082          | 10                | 3 | 2          | 32           |
| PL.23981                 | PL.24510    | A   | #4 ACSR            | 7.26Y     | 121.0        | 0.00            | 4.00          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.580             | 0.036          | 0                 | 0 | 0          | 0            |
| PL.23982                 | PL.24510    | A   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.15            | 4.15          | 17.70        | 13       | 124        | 35   | 96      | 0.14       | 0.1       | 7.727             | 0.182          | 0                 | 0 | 0          | 30           |
| PL.24111                 | PL.23982    | A   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.03            | 4.18          | 14.89        | 11       | 104        | 29   | 96      | 0.02       | 0.0       | 7.770             | 0.043          | 0                 | 0 | 0          | 26           |
| PL.23388                 | PL.24111    | A   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.07            | 4.25          | 14.63        | 10       | 102        | 29   | 96      | 0.05       | 0.1       | 7.875             | 0.105          | 5                 | 2 | 2          | 25           |
| PL.24303                 | PL.23388    | A   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.05            | 4.30          | 11.83        | 8        | 82         | 23   | 96      | 0.03       | 0.0       | 7.973             | 0.098          | 7                 | 2 | 1          | 19           |
| PL.24304                 | PL.24303    | A   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.02            | 4.31          | 10.84        | 8        | 76         | 21   | 96      | 0.01       | 0.0       | 8.005             | 0.032          | 0                 | 0 | 0          | 18           |
| PL.23984                 | PL.24304    | A   | 6 A (CWC)          | 7.24Y     | 120.6        | 0.05            | 4.36          | 10.84        | 8        | 76         | 21   | 96      | 0.03       | 0.0       | 8.105             | 0.100          | 0                 | 0 | 0          | 18           |
| PL.23985                 | PL.23984    | A   | #1/0 ACSR          | 7.24Y     | 120.6        | 0.00            | 4.36          | 1.09         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 8.130             | 0.025          | 8                 | 2 | 1          | 1            |
| PL.23986                 | PL.23984    | A   | #1/0 ACSR          | 7.24Y     | 120.6        | 0.00            | 4.36          | 0.85         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 8.140             | 0.035          | 6                 | 2 | 1          | 1            |
| PL.24301                 | PL.23984    | A   | 6 A (CWC)          | 7.24Y     | 120.6        | 0.02            | 4.39          | 8.90         | 6        | 62         | 18   | 96      | 0.01       | 0.0       | 8.167             | 0.062          | 11                | 3 | 1          | 16           |
| PL.24302                 | PL.24301    | A   | 6 A (CWC)          | 7.24Y     | 120.6        | 0.02            | 4.41          | 7.35         | 5        | 51         | 14   | 96      | 0.01       | 0.0       | 8.236             | 0.069          | 5                 | 1 | 1          | 15           |
| PL.23988                 | PL.24302    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.06            | 4.46          | 6.70         | 5        | 47         | 13   | 96      | 0.02       | 0.0       | 8.423             | 0.187          | 2                 | 1 | 1          | 14           |
| PL.24299                 | PL.23988    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.01            | 4.47          | 6.40         | 5        | 45         | 13   | 96      | 0.00       | 0.0       | 8.460             | 0.037          | 0                 | 0 | 0          | 13           |
| PL.24300                 | PL.24299    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.04            | 4.52          | 6.40         | 5        | 45         | 13   | 96      | 0.01       | 0.0       | 8.609             | 0.149          | 3                 | 1 | 1          | 13           |
| PL.23989                 | PL.24300    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.01            | 4.52          | 2.13         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.682             | 0.073          | 0                 | 0 | 0          | 2            |
| PL.24112                 | PL.23989    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.52          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.791             | 0.108          | 0                 | 0 | 1          | 1            |
| PL.23991                 | PL.23989    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.53          | 2.07         | 2        | 14         | 4    | 96      | 0.00       | 0.0       | 8.712             | 0.030          | 14                | 4 | 1          | 1            |
| PL.24295                 | PL.24300    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.01            | 4.53          | 3.03         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 8.715             | 0.106          | 0                 | 0 | 0          | 7            |
| PL.24296                 | PL.24295    | A   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.01            | 4.54          | 3.03         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 8.774             | 0.059          | 0                 | 0 | 0          | 7            |
| PL.23393                 | PL.24296    | A   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.02            | 4.56          | 3.03         | 2        | 21         | 6    | 96      | 0.00       | 0.0       | 8.938             | 0.165          | 0                 | 0 | 1          | 7            |
| PL.24022                 | PL.23393    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.01            | 4.58          | 1.91         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.101             | 0.162          | 0                 | 0 | 0          | 3            |
| PL.24203                 | PL.24022    | A   | #4 ACSR            | 7.22Y     | 120.4        | 0.01            | 4.59          | 1.91         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.237             | 0.137          | 0                 | 0 | 0          | 3            |
| PL.24016                 | PL.24203    | A   | #4 ACSR            | 7.22Y     | 120.4        | 0.01            | 4.60          | 1.91         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.385             | 0.147          | 0                 | 0 | 0          | 3            |
| PL.24204                 | PL.24016    | A   | #4 ACSR            | 7.22Y     | 120.4        | 0.01            | 4.61          | 1.91         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.494             | 0.109          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.24015                 | PL.24204    | A   | #4 ACSR            | 7.22Y     | 120.4        | 0.01            | 4.62          | 1.91         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.607             | 0.113          | 0                 | 0 | 0          | 3            |
| PL.24017                 | PL.24015    | A   | #4 ACSR            | 7.22Y     | 120.4        | 0.01            | 4.63          | 1.91         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.781             | 0.174          | 0                 | 0 | 0          | 3            |
| PL.24205                 | PL.24017    | A   | #4 ACSR            | 7.22Y     | 120.4        | 0.01            | 4.64          | 1.91         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.897             | 0.117          | 0                 | 0 | 0          | 3            |
| PL.24293                 | PL.24205    | A   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.65          | 1.91         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.956             | 0.059          | 7                 | 2 | 1          | 3            |
| PL.24294                 | PL.24293    | A   | #4 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.65          | 0.95         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 10.032            | 0.076          | 7                 | 2 | 2          | 2            |
| PL.23394                 | PL.23393    | A   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.00            | 4.57          | 1.11         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.007             | 0.069          | 0                 | 0 | 0          | 3            |
| PL.24021                 | PL.23394    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.57          | 1.11         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.027             | 0.019          | 0                 | 0 | 0          | 3            |
| PL.24018                 | PL.24021    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.57          | 1.11         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.135             | 0.108          | 2                 | 0 | 1          | 3            |
| PL.24291                 | PL.24018    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.58          | 0.86         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 9.259             | 0.124          | 1                 | 0 | 1          | 2            |
| PL.24292                 | PL.24291    | A   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.58          | 0.68         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 9.412             | 0.154          | 0                 | 0 | 0          | 1            |
| PL.24019                 | PL.24292    | A   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.58          | 0.68         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 9.523             | 0.111          | 0                 | 0 | 0          | 1            |
| PL.24020                 | PL.24019    | A   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.59          | 0.68         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 9.576             | 0.053          | 5                 | 1 | 1          | 1            |
| PL.23990                 | PL.24300    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.01            | 4.52          | 0.86         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.742             | 0.133          | 0                 | 0 | 0          | 3            |
| PL.24202                 | PL.23990    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.52          | 0.86         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 8.820             | 0.078          | 5                 | 1 | 1          | 3            |
| PL.23992                 | PL.24202    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.52          | 0.17         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.912             | 0.092          | 0                 | 0 | 0          | 2            |
| PL.24297                 | PL.23992    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.53          | 0.17         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 9.075             | 0.163          | 1                 | 0 | 1          | 2            |
| PL.24298                 | PL.24297    | A   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.53          | 0.08         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 9.220             | 0.146          | 1                 | 0 | 1          | 1            |
| PL.23987                 | PL.24302    | A   | 6 A (CWC)          | 7.24Y     | 120.6        | 0.00            | 4.41          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.317             | 0.081          | 0                 | 0 | 0          | 0            |
| PL.24305                 | PL.23388    | A   | #2 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.25          | 2.03         | 1        | 14         | 4    | 96      | 0.00       | 0.0       | 7.888             | 0.013          | 7                 | 2 | 1          | 4            |
| PL.24306                 | PL.24305    | A   | #2 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.25          | 1.03         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 7.943             | 0.056          | 7                 | 2 | 3          | 3            |
| PL.23983                 | PL.24111    | A   | #1/0 ACSR          | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.26         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.804             | 0.034          | 2                 | 1 | 1          | 1            |
| PL.24307                 | PL.23982    | A   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.15          | 2.81         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 7.738             | 0.011          | 0                 | 0 | 0          | 4            |
| PL.24308                 | PL.24307    | A   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.15          | 2.81         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 7.778             | 0.040          | 20                | 6 | 4          | 4            |
| PL.24451                 | PL.23383    | A   | #2 ACSR            | 7.27Y     | 121.1        | 0.00            | 3.86          | 0.12         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.381             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3420                  | PL.24451    | A   | 50T                | 7.27Y     | 121.1        | 0.00            | 3.86          | 0.12         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.381             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24452                 | PD.3420     | A   | #2 ACSR            | 7.27Y     | 121.1        | 0.00            | 3.86          | 0.12         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.416             | 0.035          | 1                 | 0 | 2          | 2            |
| PL.24379                 | PL.24186    | A   | #1/0 ACSR          | 7.31Y     | 121.8        | 0.00            | 3.25          | 0.27         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 5.950             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3382                  | PL.24379    | A   | 50T                | 7.31Y     | 121.8        | 0.00            | 3.25          | 0.27         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 5.950             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24380                 | PD.3382     | A   | #1/0 ACSR          | 7.31Y     | 121.8        | 0.00            | 3.25          | 0.27         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 5.985             | 0.035          | 0                 | 0 | 1          | 2            |
| PL.23927                 | PL.24380    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.00            | 3.25          | 0.22         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 6.080             | 0.095          | 0                 | 0 | 0          | 1            |
| PL.24187                 | PL.23927    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.00            | 3.25          | 0.22         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 6.175             | 0.095          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.23928                 | PL.24187    | A   | 6 A (CWC)          | 7.31Y     | 121.8        | 0.00            | 3.25          | 0.22         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 6.342             | 0.167          | 2                 | 0 | 1          | 1            |
| PL.24505                 | PL.24095    | C   | #1/0 ACSR          | 7.32Y     | 121.9        | 0.00            | 3.07          | 18.96        | 8        | 133        | 38   | 96      | 0.00       | 0.0       | 5.551             | 0.003          | 0                 | 0 | 0          | 67           |
| PD.3447                  | PL.24505    | C   | 70L                | 7.32Y     | 121.9        | 0.00            | 3.07          | 18.96        | 27       | 133        | 38   | 96      | 0.00       | 0.0       | 5.551             | 0.003          | 0                 | 0 | 0          | 67           |
| PL.24506                 | PD.3447     | C   | #1/0 ACSR          | 7.32Y     | 121.9        | 0.01            | 3.08          | 18.96        | 8        | 133        | 38   | 96      | 0.01       | 0.0       | 5.578             | 0.027          | 2                 | 1 | 2          | 67           |
| PL.23923                 | PL.24506    | C   | #1/0 ACSR          | 7.31Y     | 121.9        | 0.03            | 3.12          | 18.66        | 8        | 131        | 38   | 96      | 0.03       | 0.0       | 5.654             | 0.076          | 0                 | 0 | 0          | 65           |
| PL.23929                 | PL.23923    | C   | #1/0 ACSR          | 7.31Y     | 121.9        | 0.01            | 3.13          | 18.66        | 8        | 131        | 38   | 96      | 0.01       | 0.0       | 5.676             | 0.023          | 0                 | 0 | 0          | 65           |
| PL.23930                 | PL.23929    | C   | #1/0 ACSR          | 7.31Y     | 121.8        | 0.07            | 3.19          | 18.43        | 8        | 130        | 37   | 96      | 0.06       | 0.0       | 5.831             | 0.155          | 0                 | 0 | 0          | 63           |
| PL.24159                 | PL.23930    | C   | #1/0 ACSR          | 7.30Y     | 121.7        | 0.07            | 3.26          | 18.43        | 8        | 130        | 37   | 96      | 0.06       | 0.0       | 5.997             | 0.166          | 0                 | 0 | 0          | 63           |
| PL.24160                 | PL.24159    | C   | #1/0 ACSR          | 7.30Y     | 121.7        | 0.05            | 3.31          | 18.43        | 8        | 129        | 37   | 96      | 0.04       | 0.0       | 6.118             | 0.121          | 3                 | 1 | 1          | 63           |
| PL.23931                 | PL.24160    | C   | #1/0 ACSR          | 7.30Y     | 121.6        | 0.04            | 3.36          | 16.88        | 7        | 118        | 34   | 96      | 0.03       | 0.0       | 6.227             | 0.109          | 0                 | 0 | 0          | 60           |
| PL.24161                 | PL.23931    | C   | #1/0 ACSR          | 7.29Y     | 121.6        | 0.06            | 3.42          | 16.88        | 7        | 118        | 34   | 96      | 0.05       | 0.0       | 6.387             | 0.160          | 0                 | 0 | 0          | 60           |
| PL.23934                 | PL.24161    | C   | #1/0 ACSR          | 7.29Y     | 121.5        | 0.04            | 3.46          | 16.86        | 7        | 118        | 34   | 96      | 0.03       | 0.0       | 6.496             | 0.109          | 0                 | 0 | 0          | 59           |
| PL.23351                 | PL.23934    | C   | 6 A (CWC)          | 7.29Y     | 121.5        | 0.06            | 3.52          | 16.86        | 12       | 118        | 34   | 96      | 0.05       | 0.0       | 6.575             | 0.078          | 0                 | 0 | 0          | 59           |
| PL.24096                 | PL.23351    | C   | 6 A (CWC)          | 7.28Y     | 121.4        | 0.07            | 3.59          | 16.86        | 12       | 118        | 34   | 96      | 0.06       | 0.0       | 6.659             | 0.085          | 0                 | 0 | 0          | 59           |
| PL.23355                 | PL.24096    | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.07            | 3.66          | 16.86        | 12       | 118        | 34   | 96      | 0.06       | 0.1       | 6.747             | 0.088          | 0                 | 0 | 0          | 59           |
| PL.24164                 | PL.23355    | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.08            | 3.74          | 16.86        | 12       | 118        | 34   | 96      | 0.07       | 0.1       | 6.852             | 0.105          | 0                 | 0 | 0          | 59           |
| PL.24499                 | PL.24164    | C   | 6 A (CWC)          | 7.28Y     | 121.3        | 0.00            | 3.74          | 16.86        | 12       | 118        | 33   | 96      | 0.00       | 0.0       | 6.857             | 0.005          | 0                 | 0 | 0          | 59           |
| PD.3444-A                | PL.24499    | C   | Closed             | 7.28Y     | 121.3        | 0.00            | 3.74          | 16.86        | 0        | 118        | 33   | 96      | 0.00       | 0.0       | 6.857             | 0.005          | 0                 | 0 | 0          | 59           |
| PD.3444-B                | PD.3444-A   | C   | Closed             | 7.28Y     | 121.3        | 0.00            | 3.74          | 16.86        | 0        | 118        | 33   | 96      | 0.00       | 0.0       | 6.857             | 0.005          | 0                 | 0 | 0          | 59           |
| PL.24500                 | PD.3444-B   | C   | 6 A (CWC)          | 7.27Y     | 121.2        | 0.11            | 3.85          | 16.86        | 12       | 118        | 33   | 96      | 0.09       | 0.1       | 6.993             | 0.136          | 0                 | 0 | 0          | 59           |
| PL.24097                 | PL.24500    | C   | 6 A (CWC)          | 7.27Y     | 121.1        | 0.04            | 3.89          | 16.86        | 12       | 118        | 33   | 96      | 0.04       | 0.0       | 7.048             | 0.055          | 0                 | 0 | 0          | 59           |
| PL.23017                 | PL.24097    | C   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.06            | 3.95          | 16.86        | 12       | 118        | 33   | 96      | 0.05       | 0.0       | 7.128             | 0.080          | 4                 | 1 | 1          | 59           |
| PL.23018                 | PL.23017    | C   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.06            | 4.01          | 16.36        | 12       | 114        | 32   | 96      | 0.05       | 0.0       | 7.206             | 0.078          | 0                 | 0 | 0          | 58           |
| PL.24224                 | PL.23018    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.08            | 4.09          | 16.22        | 12       | 113        | 32   | 96      | 0.07       | 0.1       | 7.321             | 0.114          | 0                 | 0 | 1          | 56           |
| PL.24503                 | PL.24224    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.10          | 3.51         | 3        | 25         | 7    | 96      | 0.00       | 0.0       | 7.325             | 0.005          | 0                 | 0 | 0          | 19           |
| PD.3446-A                | PL.24503    | C   | Closed             | 7.25Y     | 120.9        | 0.00            | 4.10          | 3.51         | 0        | 25         | 7    | 96      | 0.00       | 0.0       | 7.325             | 0.005          | 0                 | 0 | 0          | 19           |
| PD.3446-B                | PD.3446-A   | C   | Closed             | 7.25Y     | 120.9        | 0.00            | 4.10          | 3.51         | 0        | 25         | 7    | 96      | 0.00       | 0.0       | 7.325             | 0.005          | 0                 | 0 | 0          | 19           |
| PL.24504                 | PD.3446-B   | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.02            | 4.11          | 3.51         | 3        | 25         | 7    | 96      | 0.00       | 0.0       | 7.448             | 0.123          | 7                 | 2 | 2          | 19           |
| PL.24221                 | PL.24504    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.01            | 4.12          | 2.50         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 7.540             | 0.092          | 0                 | 0 | 0          | 17           |
| PL.24511                 | PL.24221    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.12          | 2.16         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 7.543             | 0.003          | 0                 | 0 | 0          | 15           |
| PD.3450                  | PL.24511    | C   | 100CodeSMo         | 7.25Y     | 120.9        | 0.00            | 4.12          | 2.16         | 0        | 15         | 4    | 97      | 0.00       | 0.0       | 7.543             | 0.003          | 0                 | 0 | 0          | 15           |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.24512                 | PD.3450     | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.01            | 4.13          | 2.16         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 7.645             | 0.102          | 0                 | 0 | 0          | 15           |
| PL.24212                 | PL.24512    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.01            | 4.14          | 2.16         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 7.748             | 0.103          | 0                 | 0 | 0          | 15           |
| PL.24165                 | PL.24212    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.15          | 2.16         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 7.843             | 0.095          | 0                 | 0 | 0          | 15           |
| PL.24211                 | PL.24165    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.16          | 2.16         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 7.959             | 0.116          | 0                 | 0 | 0          | 15           |
| PL.24166                 | PL.24211    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.02            | 4.18          | 2.16         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.140             | 0.181          | 0                 | 0 | 0          | 15           |
| PL.24049                 | PL.24166    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.18          | 2.16         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.157             | 0.017          | 0                 | 0 | 0          | 15           |
| PL.24050                 | PL.24049    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.19          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.317             | 0.160          | 0                 | 0 | 0          | 13           |
| PL.24168                 | PL.24050    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.20          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.405             | 0.088          | 0                 | 0 | 0          | 13           |
| PL.24099                 | PL.24168    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.21          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.564             | 0.159          | 0                 | 0 | 0          | 13           |
| PL.24169                 | PL.24099    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.22          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.737             | 0.173          | 0                 | 0 | 0          | 13           |
| PL.24359                 | PL.24169    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.22          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.770             | 0.033          | 0                 | 0 | 1          | 13           |
| PL.24360                 | PL.24359    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.23          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.876             | 0.106          | 0                 | 0 | 0          | 12           |
| PL.24213                 | PL.24360    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.24          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 8.970             | 0.094          | 0                 | 0 | 0          | 12           |
| PL.24170                 | PL.24213    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.25          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.139             | 0.169          | 0                 | 0 | 0          | 12           |
| PL.24357                 | PL.24170    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.01            | 4.26          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.285             | 0.146          | 0                 | 0 | 1          | 12           |
| PL.24358                 | PL.24357    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.01            | 4.27          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.445             | 0.160          | 0                 | 0 | 0          | 11           |
| PL.24171                 | PL.24358    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.01            | 4.28          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.552             | 0.107          | 0                 | 0 | 0          | 11           |
| PL.24172                 | PL.24171    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.01            | 4.29          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.661             | 0.110          | 0                 | 0 | 0          | 11           |
| PL.24355                 | PL.24172    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.01            | 4.30          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.824             | 0.163          | 0                 | 0 | 1          | 11           |
| PL.24356                 | PL.24355    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.01            | 4.30          | 1.51         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.914             | 0.090          | 0                 | 0 | 0          | 10           |
| PL.23377                 | PL.24356    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.30          | 1.20         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 9.931             | 0.017          | 0                 | 0 | 0          | 9            |
| PL.24052                 | PL.23377    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.30          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.977             | 0.046          | 0                 | 0 | 1          | 1            |
| PL.24353                 | PL.24052    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.31          | 1.19         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 10.016            | 0.085          | 0                 | 0 | 1          | 8            |
| PL.24354                 | PL.24353    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.31          | 1.13         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 10.104            | 0.087          | 2                 | 0 | 1          | 7            |
| PL.24351                 | PL.24354    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.01            | 4.32          | 0.90         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 10.262            | 0.158          | 0                 | 0 | 1          | 6            |
| PL.24352                 | PL.24351    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.32          | 0.89         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 10.372            | 0.110          | 3                 | 1 | 1          | 5            |
| PL.24350                 | PL.24352    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.32          | 0.47         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.448            | 0.076          | 1                 | 0 | 1          | 4            |
| PL.24349                 | PL.24350    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.32          | 0.39         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.554            | 0.106          | 0                 | 0 | 1          | 3            |
| PL.24347                 | PL.24349    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.33          | 0.37         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.644            | 0.090          | 3                 | 1 | 1          | 2            |
| PL.24348                 | PL.24347    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.33          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.762            | 0.118          | 0                 | 0 | 1          | 1            |
| PL.24051                 | PL.24348    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.33          | 0.01         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 10.762            | 0.118          | 0                 | 0 | 1          | 1            |
| PL.24051                 | PL.24356    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.30          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.060            | 0.146          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.24173                 | PL.24051    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.00            | 4.30          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 10.173            | 0.113          | 2                 | 1 | 1          | 1            |
| PL.24461                 | PL.24168    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.20          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.410             | 0.005          | 0                 | 0 | 0          | 0            |
| PD.3425                  | PL.24461    | C   | 10T                | 7.25Y     | 120.8        | 0.00            | 4.20          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.410             | 0.005          | 0                 | 0 | 0          | 0            |
| PL.24462                 | PD.3425     | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.20          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.537             | 0.127          | 0                 | 0 | 0          | 0            |
| PL.24463                 | PL.24049    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 8.161             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3426                  | PL.24463    | C   | 10T                | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 8.161             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24464                 | PD.3426     | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.18          | 0.65         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 8.196             | 0.034          | 2                 | 1 | 1          | 2            |
| PL.24361                 | PL.24464    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.19          | 0.30         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.301             | 0.106          | 0                 | 0 | 0          | 1            |
| PL.24167                 | PL.24361    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.19          | 0.30         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.430             | 0.128          | 0                 | 0 | 0          | 1            |
| PL.24065                 | PL.24167    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.19          | 0.30         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.442             | 0.012          | 0                 | 0 | 0          | 1            |
| PL.24064                 | PL.24065    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.19          | 0.30         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.536             | 0.094          | 0                 | 0 | 0          | 1            |
| PL.24063                 | PL.24064    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.19          | 0.30         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.659             | 0.123          | 0                 | 0 | 0          | 1            |
| PL.24062                 | PL.24063    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.19          | 0.30         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 8.776             | 0.117          | 2                 | 1 | 1          | 1            |
| PL.24220                 | PL.24221    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.12          | 0.33         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.690             | 0.150          | 0                 | 0 | 0          | 2            |
| PL.24098                 | PL.24220    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.33         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.876             | 0.186          | 0                 | 0 | 0          | 2            |
| PL.24047                 | PL.24098    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.924             | 0.047          | 0                 | 0 | 0          | 0            |
| PL.24048                 | PL.24098    | C   | #4 ACSR            | 7.25Y     | 120.9        | 0.00            | 4.13          | 0.33         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 7.934             | 0.057          | 2                 | 1 | 2          | 2            |
| PL.24501                 | PL.24224    | C   | 6 A (CWC)          | 7.25Y     | 120.9        | 0.00            | 4.10          | 12.66        | 9        | 88         | 25   | 96      | 0.00       | 0.0       | 7.325             | 0.005          | 0                 | 0 | 0          | 36           |
| PD.3445-A                | PL.24501    | C   | Closed             | 7.25Y     | 120.9        | 0.00            | 4.10          | 12.66        | 0        | 88         | 25   | 96      | 0.00       | 0.0       | 7.325             | 0.005          | 0                 | 0 | 0          | 36           |
| PD.3445-B                | PD.3445-A   | C   | Closed             | 7.25Y     | 120.9        | 0.00            | 4.10          | 12.66        | 0        | 88         | 25   | 96      | 0.00       | 0.0       | 7.325             | 0.005          | 0                 | 0 | 0          | 36           |
| PL.24502                 | PD.3445-B   | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.10            | 4.19          | 12.66        | 9        | 88         | 25   | 96      | 0.06       | 0.1       | 7.498             | 0.173          | 6                 | 2 | 1          | 36           |
| PL.24468                 | PL.24502    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.19          | 2.71         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 7.502             | 0.005          | 0                 | 0 | 0          | 6            |
| PD.3428                  | PL.24468    | C   | 30T                | 7.25Y     | 120.8        | 0.00            | 4.19          | 2.71         | 0        | 19         | 5    | 97      | 0.00       | 0.0       | 7.502             | 0.005          | 0                 | 0 | 0          | 6            |
| PL.24467                 | PD.3428     | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.20          | 2.71         | 2        | 19         | 5    | 97      | 0.00       | 0.0       | 7.545             | 0.043          | 3                 | 1 | 1          | 6            |
| PL.23025                 | PL.24467    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.20          | 2.34         | 2        | 16         | 5    | 95      | 0.00       | 0.0       | 7.573             | 0.027          | 5                 | 1 | 1          | 5            |
| PL.23024                 | PL.23025    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.01            | 4.21          | 1.63         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 7.699             | 0.126          | 0                 | 0 | 0          | 4            |
| PL.23022                 | PL.23024    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.21          | 0.87         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 7.756             | 0.057          | 6                 | 2 | 1          | 2            |
| PL.23023                 | PL.23022    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.21          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.818             | 0.063          | 0                 | 0 | 1          | 1            |
| PL.23021                 | PL.23023    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.21          | 0.76         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 7.735             | 0.036          | 0                 | 0 | 0          | 2            |
| PL.23020                 | PL.23021    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.21          | 0.76         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 7.787             | 0.052          | 0                 | 0 | 0          | 2            |
| PL.23357                 | PL.23020    | C   | 6 A (CWC)          | 7.25Y     | 120.8        | 0.00            | 4.22          | 0.76         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 7.970             | 0.183          | 5                 | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.24417                 | PL.24502    | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.00            | 4.20          | 9.03         | 7        | 63         | 18   | 96      | 0.00       | 0.0       | 7.502             | 0.005          | 0                 | 0 | 0          | 29           |
| PD.3402                  | PL.24417    | C   | 30T                | 7.25Y     | 120.8        | 0.00            | 4.20          | 9.03         | 0        | 63         | 18   | 96      | 0.00       | 0.0       | 7.502             | 0.005          | 0                 | 0 | 0          | 29           |
| PL.24418                 | PD.3402     | C   | #4 ACSR            | 7.25Y     | 120.8        | 0.01            | 4.21          | 9.03         | 7        | 63         | 18   | 96      | 0.01       | 0.0       | 7.538             | 0.035          | 0                 | 0 | 0          | 29           |
| PL.23026                 | PL.24418    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.06            | 4.27          | 9.03         | 7        | 63         | 18   | 96      | 0.03       | 0.0       | 7.686             | 0.148          | 0                 | 0 | 0          | 29           |
| PL.24174                 | PL.23026    | C   | #4 ACSR            | 7.24Y     | 120.7        | 0.02            | 4.29          | 9.03         | 7        | 63         | 18   | 96      | 0.01       | 0.0       | 7.740             | 0.055          | 0                 | 0 | 0          | 29           |
| PL.23367                 | PL.24174    | C   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.04            | 4.33          | 9.03         | 4        | 63         | 18   | 96      | 0.01       | 0.0       | 7.907             | 0.167          | 0                 | 0 | 0          | 29           |
| PL.23358                 | PL.23367    | C   | #1/0 ACSR          | 7.24Y     | 120.7        | 0.01            | 4.34          | 8.28         | 4        | 58         | 16   | 96      | 0.00       | 0.0       | 7.965             | 0.057          | 0                 | 0 | 0          | 28           |
| PL.23359                 | PL.23358    | C   | #1/0 ACSR          | 7.24Y     | 120.6        | 0.01            | 4.35          | 8.28         | 4        | 58         | 16   | 96      | 0.00       | 0.0       | 8.031             | 0.067          | 2                 | 1 | 1          | 28           |
| PL.23029                 | PL.23359    | C   | 6 A (CWC)          | 7.24Y     | 120.6        | 0.06            | 4.41          | 7.95         | 6        | 55         | 16   | 96      | 0.03       | 0.0       | 8.210             | 0.178          | 3                 | 1 | 1          | 27           |
| PL.23030                 | PL.23029    | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.05            | 4.46          | 7.57         | 5        | 53         | 15   | 96      | 0.02       | 0.0       | 8.350             | 0.140          | 7                 | 2 | 2          | 26           |
| PL.23031                 | PL.23030    | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.01            | 4.47          | 6.56         | 5        | 46         | 13   | 96      | 0.00       | 0.0       | 8.383             | 0.033          | 0                 | 0 | 1          | 24           |
| PL.24131                 | PL.23031    | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.01            | 4.48          | 6.52         | 5        | 45         | 13   | 96      | 0.00       | 0.0       | 8.412             | 0.029          | 7                 | 2 | 1          | 23           |
| PL.23361                 | PL.24131    | C   | #1/0 ACSR          | 7.23Y     | 120.5        | 0.00            | 4.48          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.486             | 0.075          | 0                 | 0 | 0          | 0            |
| PL.23032                 | PL.24131    | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.04            | 4.51          | 5.49         | 4        | 38         | 11   | 96      | 0.01       | 0.0       | 8.562             | 0.150          | 3                 | 1 | 1          | 22           |
| PL.23033                 | PL.23032    | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.01            | 4.52          | 5.08         | 4        | 35         | 10   | 96      | 0.00       | 0.0       | 8.593             | 0.031          | 0                 | 0 | 0          | 21           |
| PL.24469                 | PL.23033    | C   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.52          | 2.85         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 8.598             | 0.005          | 0                 | 0 | 0          | 10           |
| PD.3429                  | PL.24469    | C   | 20T                | 7.23Y     | 120.5        | 0.00            | 4.52          | 2.85         | 0        | 20         | 6    | 96      | 0.00       | 0.0       | 8.598             | 0.005          | 0                 | 0 | 0          | 10           |
| PL.24470                 | PD.3429     | C   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.52          | 2.85         | 2        | 20         | 6    | 96      | 0.00       | 0.0       | 8.613             | 0.016          | 2                 | 1 | 1          | 10           |
| PL.23034                 | PL.24470    | C   | #4 ACSR            | 7.23Y     | 120.5        | 0.02            | 4.54          | 2.50         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 8.772             | 0.158          | 0                 | 0 | 0          | 9            |
| PL.24100                 | PL.23034    | C   | #4 ACSR            | 7.23Y     | 120.4        | 0.02            | 4.56          | 2.49         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 8.934             | 0.162          | 0                 | 0 | 0          | 8            |
| PL.23366                 | PL.24100    | C   | #1/0 ACSR          | 7.23Y     | 120.4        | 0.00            | 4.56          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.004             | 0.070          | 0                 | 0 | 0          | 0            |
| PL.24101                 | PL.24100    | C   | #4 ACSR            | 7.23Y     | 120.4        | 0.01            | 4.57          | 2.49         | 2        | 17         | 5    | 96      | 0.00       | 0.0       | 9.028             | 0.094          | 0                 | 0 | 0          | 8            |
| PL.24068                 | PL.24101    | C   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.57          | 0.19         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 9.112             | 0.084          | 1                 | 0 | 1          | 1            |
| PL.24069                 | PL.24101    | C   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.57          | 0.06         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.088             | 0.060          | 0                 | 0 | 1          | 1            |
| PL.24070                 | PL.24101    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.02            | 4.59          | 2.25         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 9.209             | 0.181          | 0                 | 0 | 0          | 6            |
| PL.24459                 | PL.24070    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.59          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 9.213             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3424                  | PL.24459    | C   | 12T                | 7.22Y     | 120.4        | 0.00            | 4.59          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 9.213             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24460                 | PD.3424     | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.59          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 9.304             | 0.090          | 0                 | 0 | 0          | 2            |
| PL.24176                 | PL.24460    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.59          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 9.407             | 0.103          | 3                 | 1 | 2          | 2            |
| PL.24483                 | PL.24070    | C   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.00            | 4.59          | 1.84         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.213             | 0.005          | 0                 | 0 | 0          | 4            |
| PD.3437                  | PL.24483    | C   | 12T                | 7.22Y     | 120.4        | 0.00            | 4.59          | 1.84         | 0        | 13         | 4    | 96      | 0.00       | 0.0       | 9.213             | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.24484                 | PD.3437     | C   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.01            | 4.60          | 1.84         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.376             | 0.163          | 0                 | 0 | 0          | 4            |
| PL.24177                 | PL.24484    | C   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.01            | 4.61          | 1.84         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.472             | 0.095          | 0                 | 0 | 0          | 4            |
| PL.24178                 | PL.24177    | C   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.01            | 4.62          | 1.84         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.629             | 0.157          | 0                 | 0 | 0          | 4            |
| PL.24072                 | PL.24178    | C   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.01            | 4.63          | 1.84         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.731             | 0.102          | 0                 | 0 | 0          | 4            |
| PL.24074                 | PL.24072    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.63          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.803             | 0.072          | 0                 | 0 | 1          | 1            |
| PL.24071                 | PL.24072    | C   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.00            | 4.63          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.796             | 0.065          | 0                 | 0 | 0          | 0            |
| PL.24073                 | PL.24072    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.01            | 4.64          | 1.84         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 9.867             | 0.136          | 0                 | 0 | 0          | 3            |
| PL.24343                 | PL.24073    | C   | #4 ACSR            | 7.22Y     | 120.3        | 0.01            | 4.65          | 1.84         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 10.013            | 0.146          | 8                 | 2 | 2          | 3            |
| PL.24344                 | PL.24343    | C   | #4 ACSR            | 7.22Y     | 120.3        | 0.01            | 4.66          | 0.72         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.180            | 0.167          | 0                 | 0 | 0          | 1            |
| PL.24179                 | PL.24344    | C   | #4 ACSR            | 7.22Y     | 120.3        | 0.00            | 4.66          | 0.72         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 10.337            | 0.156          | 5                 | 1 | 1          | 1            |
| PL.23365                 | PL.23034    | C   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.54          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 8.861             | 0.089          | 0                 | 0 | 1          | 1            |
| PL.24421                 | PL.23033    | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.52          | 2.23         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.598             | 0.005          | 0                 | 0 | 0          | 11           |
| PD.3404                  | PL.24421    | C   | 20T                | 7.23Y     | 120.5        | 0.00            | 4.52          | 2.23         | 0        | 15         | 4    | 97      | 0.00       | 0.0       | 8.598             | 0.005          | 0                 | 0 | 0          | 11           |
| PL.24422                 | PD.3404     | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.01            | 4.54          | 2.23         | 2        | 15         | 4    | 97      | 0.00       | 0.0       | 8.758             | 0.160          | 3                 | 1 | 1          | 11           |
| PL.23387                 | PL.24422    | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.01            | 4.54          | 1.75         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 8.866             | 0.108          | 0                 | 0 | 1          | 8            |
| PL.23364                 | PL.23387    | C   | #1/0 ACSR          | 7.23Y     | 120.4        | 0.01            | 4.55          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 9.080             | 0.214          | 0                 | 0 | 0          | 7            |
| PL.24473                 | PL.23364    | C   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.00            | 4.55          | 0.05         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.085             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3431                  | PL.24473    | C   | 12T                | 7.23Y     | 120.4        | 0.00            | 4.55          | 0.05         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.085             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.24474                 | PD.3431     | C   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.00            | 4.55          | 0.05         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.218             | 0.134          | 0                 | 0 | 2          | 3            |
| PL.23037                 | PL.24474    | C   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.00            | 4.55          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.311             | 0.093          | 0                 | 0 | 0          | 1            |
| PL.24210                 | PL.23037    | C   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.00            | 4.55          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.417             | 0.106          | 0                 | 0 | 0          | 1            |
| PL.24180                 | PL.24210    | C   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.00            | 4.55          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.582             | 0.165          | 0                 | 0 | 0          | 1            |
| PL.24181                 | PL.24180    | C   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.55          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.690             | 0.108          | 0                 | 0 | 0          | 1            |
| PL.24182                 | PL.24181    | C   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.55          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.789             | 0.099          | 0                 | 0 | 0          | 1            |
| PL.24102                 | PL.24182    | C   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.55          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.911             | 0.121          | 0                 | 0 | 1          | 1            |
| PL.23937                 | PL.24182    | C   | #4 ACSR            | 7.23Y     | 120.4        | 0.00            | 4.55          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.887             | 0.097          | 0                 | 0 | 0          | 0            |
| PL.24426                 | PL.23364    | C   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.00            | 4.55          | 1.66         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 9.085             | 0.005          | 0                 | 0 | 0          | 4            |
| PD.3406                  | PL.24426    | C   | 12T                | 7.23Y     | 120.4        | 0.00            | 4.55          | 1.66         | 0        | 12         | 3    | 97      | 0.00       | 0.0       | 9.085             | 0.005          | 0                 | 0 | 0          | 4            |
| PL.24425                 | PD.3406     | C   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.01            | 4.57          | 1.66         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 9.258             | 0.173          | 0                 | 0 | 0          | 4            |
| PL.23936                 | PL.24425    | C   | 6 A (CWC)          | 7.23Y     | 120.4        | 0.01            | 4.58          | 1.66         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 9.438             | 0.180          | 0                 | 0 | 0          | 4            |
| PL.23935                 | PL.23936    | C   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.01            | 4.59          | 1.66         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 9.555             | 0.117          | 1                 | 0 | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.23374                 | PL.23935    | C   | 6 A (CWC)          | 7.22Y     | 120.4        | 0.00            | 4.59          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 9.604             | 0.049          | 0                 | 0 | 0          | 0            |
| PL.23375                 | PL.23935    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.01            | 4.60          | 1.55         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.651             | 0.097          | 0                 | 0 | 0          | 3            |
| PL.23035                 | PL.23375    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.01            | 4.61          | 1.55         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.820             | 0.169          | 0                 | 0 | 0          | 3            |
| PL.23036                 | PL.23035    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.61          | 1.55         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.860             | 0.039          | 0                 | 0 | 0          | 3            |
| PL.23038                 | PL.23036    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.01            | 4.62          | 1.55         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 9.977             | 0.118          | 5                 | 1 | 1          | 3            |
| PL.24267                 | PL.23038    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.62          | 0.82         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 10.151            | 0.174          | 3                 | 1 | 1          | 2            |
| PL.23938                 | PL.24267    | C   | #4 ACSR            | 7.22Y     | 120.4        | 0.00            | 4.62          | 0.43         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 10.197            | 0.046          | 3                 | 1 | 1          | 1            |
| PL.24424                 | PL.24422    | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.54          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.814             | 0.056          | 0                 | 0 | 0          | 2            |
| PD.3405                  | PL.24424    | C   | 12T                | 7.23Y     | 120.5        | 0.00            | 4.54          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.814             | 0.056          | 0                 | 0 | 0          | 2            |
| PL.24423                 | PD.3405     | C   | 6 A (CWC)          | 7.23Y     | 120.5        | 0.00            | 4.54          | 0.09         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.916             | 0.103          | 0                 | 0 | 1          | 2            |
| PL.23363                 | PL.24423    | C   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.54          | 0.07         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 8.953             | 0.037          | 0                 | 0 | 0          | 1            |
| PL.23362                 | PL.23363    | C   | #4 ACSR            | 7.23Y     | 120.5        | 0.00            | 4.54          | 0.07         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 9.053             | 0.099          | 1                 | 0 | 1          | 1            |
| PL.24419                 | PL.23367    | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.33          | 0.75         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 7.912             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3403                  | PL.24419    | C   | 20T                | 7.24Y     | 120.7        | 0.00            | 4.33          | 0.75         | 0        | 5          | 1    | 98      | 0.00       | 0.0       | 7.912             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24420                 | PD.3403     | C   | 6 A (CWC)          | 7.24Y     | 120.7        | 0.00            | 4.33          | 0.75         | 1        | 5          | 1    | 98      | 0.00       | 0.0       | 8.055             | 0.143          | 5                 | 1 | 1          | 1            |
| PL.24415                 | PL.23018    | C   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.00            | 4.01          | 0.14         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.211             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3401                  | PL.24415    | C   | 30T                | 7.26Y     | 121.0        | 0.00            | 4.01          | 0.14         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.211             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24416                 | PD.3401     | C   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.00            | 4.01          | 0.14         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 7.229             | 0.018          | 1                 | 0 | 1          | 2            |
| PL.23019                 | PL.24416    | C   | 6 A (CWC)          | 7.26Y     | 121.0        | 0.00            | 4.01          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 7.367             | 0.138          | 0                 | 0 | 1          | 1            |
| PL.24465                 | PL.24161    | C   | #1/0 ACSR          | 7.29Y     | 121.6        | 0.00            | 3.42          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.391             | 0.005          | 0                 | 0 | 0          | 0            |
| PD.3427                  | PL.24465    | C   | 30T                | 7.29Y     | 121.6        | 0.00            | 3.42          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.391             | 0.005          | 0                 | 0 | 0          | 0            |
| PL.24466                 | PD.3427     | C   | #1/0 ACSR          | 7.29Y     | 121.6        | 0.00            | 3.42          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.444             | 0.052          | 0                 | 0 | 0          | 0            |
| PL.24397                 | PL.24161    | C   | 6 A (CWC)          | 7.29Y     | 121.6        | 0.00            | 3.42          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.392             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3393                  | PL.24397    | C   | 30T                | 7.29Y     | 121.6        | 0.00            | 3.42          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.392             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24398                 | PD.3393     | C   | 6 A (CWC)          | 7.29Y     | 121.6        | 0.00            | 3.42          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.461             | 0.069          | 0                 | 0 | 0          | 1            |
| PL.23933                 | PL.24398    | C   | 6 A (CWC)          | 7.29Y     | 121.6        | 0.00            | 3.42          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 6.622             | 0.161          | 0                 | 0 | 1          | 1            |
| PL.24383                 | PL.24160    | C   | #1/0 ACSR          | 7.30Y     | 121.7        | 0.00            | 3.31          | 1.18         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 6.122             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3384                  | PL.24383    | C   | 30T                | 7.30Y     | 121.7        | 0.00            | 3.31          | 1.18         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 6.122             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24384                 | PD.3384     | C   | #1/0 ACSR          | 7.30Y     | 121.7        | 0.00            | 3.32          | 1.18         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 6.164             | 0.042          | 5                 | 2 | 1          | 2            |
| PL.24248                 | PL.24384    | C   | #1/0 ACSR          | 7.30Y     | 121.7        | 0.00            | 3.32          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.203             | 0.039          | 0                 | 0 | 0          | 1            |
| PL.23932                 | PL.24248    | C   | #1/0 ACSR          | 7.30Y     | 121.7        | 0.00            | 3.32          | 0.40         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 6.242             | 0.039          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.24381                 | PL.23929    | C   | #1/0 ACSR          | 7.31Y     | 121.9        | 0.00            | 3.13          | 0.23         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 5.681             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3383                  | PL.24381    | C   | 10T                | 7.31Y     | 121.9        | 0.00            | 3.13          | 0.23         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 5.681             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24382                 | PD.3383     | C   | #1/0 ACSR          | 7.31Y     | 121.9        | 0.00            | 3.13          | 0.23         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 5.798             | 0.117          | 0                 | 0 | 1          | 2            |
| PL.24247                 | PL.24382    | C   | #1/0 ACSR          | 7.31Y     | 121.9        | 0.00            | 3.13          | 0.23         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 5.859             | 0.061          | 2                 | 0 | 1          | 1            |
| PL.24373                 | PL.24158    | A   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.00            | 3.02          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 5.446             | 0.005          | 0                 | 0 | 0          | 4            |
| PD.3379                  | PL.24373    | A   | 40T                | 7.32Y     | 122.0        | 0.00            | 3.02          | 1.72         | 0        | 12         | 3    | 97      | 0.00       | 0.0       | 5.446             | 0.005          | 0                 | 0 | 0          | 4            |
| PL.24374                 | PD.3379     | A   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.00            | 3.02          | 1.72         | 1        | 12         | 3    | 97      | 0.00       | 0.0       | 5.468             | 0.022          | 8                 | 2 | 1          | 4            |
| PL.23921                 | PL.24374    | A   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.00            | 3.02          | 0.61         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 5.532             | 0.064          | 2                 | 1 | 2          | 3            |
| PL.23924                 | PL.23921    | A   | #4 ACSR            | 7.32Y     | 122.0        | 0.00            | 3.02          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 5.552             | 0.020          | 0                 | 0 | 0          | 0            |
| PL.23925                 | PL.23921    | A   | 6 A (CWC)          | 7.32Y     | 122.0        | 0.00            | 3.02          | 0.32         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 5.571             | 0.039          | 0                 | 0 | 0          | 1            |
| PL.23926                 | PL.23925    | A   | #4 ACSR            | 7.32Y     | 122.0        | 0.00            | 3.02          | 0.32         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 5.612             | 0.042          | 2                 | 1 | 1          | 1            |
| PL.24389                 | PL.24265    | A   | #4 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.090             | 0.005          | 0                 | 0 | 0          | 0            |
| PD.3389                  | PL.24389    | A   | 40T                | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.090             | 0.005          | 0                 | 0 | 0          | 0            |
| PL.24390                 | PD.3389     | A   | #4 ACSR            | 7.36Y     | 122.7        | 0.00            | 2.34          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.119             | 0.029          | 0                 | 0 | 0          | 0            |
| PL.24393                 | PL.22995    | A   | #4 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.15          | 1.31         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 3.740             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3391                  | PL.24393    | A   | 40T                | 7.37Y     | 122.8        | 0.00            | 2.15          | 1.31         | 0        | 9          | 3    | 95      | 0.00       | 0.0       | 3.740             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24394                 | PD.3391     | A   | #4 ACSR            | 7.37Y     | 122.8        | 0.00            | 2.15          | 1.31         | 1        | 9          | 3    | 95      | 0.00       | 0.0       | 3.784             | 0.044          | 9                 | 3 | 1          | 1            |
| PL.24395                 | PL.22999    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 2.01          | 1.06         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 3.469             | 0.005          | 0                 | 0 | 0          | 2            |
| PD.3392                  | PL.24395    | C   | 40T                | 7.38Y     | 123.0        | 0.00            | 2.01          | 1.06         | 0        | 8          | 2    | 97      | 0.00       | 0.0       | 3.469             | 0.005          | 0                 | 0 | 0          | 2            |
| PL.24396                 | PD.3392     | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 2.01          | 1.06         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 3.488             | 0.019          | 8                 | 2 | 2          | 2            |
| PL.24399                 | PL.24516    | C   | #1/0 ACSR          | 7.41Y     | 123.5        | 0.00            | 1.52          | 0.04         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.561             | 0.004          | 0                 | 0 | 0          | 1            |
| PD.3394                  | PL.24399    | C   | 40T                | 7.41Y     | 123.5        | 0.00            | 1.52          | 0.04         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.561             | 0.004          | 0                 | 0 | 0          | 1            |
| PL.24400                 | PD.3394     | C   | #1/0 ACSR          | 7.41Y     | 123.5        | 0.00            | 1.52          | 0.04         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.598             | 0.038          | 0                 | 0 | 1          | 1            |
| PL.24491                 | PL.23897    | ABC | #1/0 ACSR          | 7.41Y     | 123.6        | 0.00            | 1.44          | 4.91         | 2        | 105        | 30   | 96      | 0.00       | 0.0       | 2.419             | 0.005          | 0                 | 0 | 0          | 26           |
| PD.3441                  | PL.24491    | ABC | 50T                | 7.41Y     | 123.6        | 0.00            | 1.44          | 4.91         | 0        | 105        | 30   | 96      | 0.00       | 0.0       | 2.419             | 0.005          | 0                 | 0 | 0          | 26           |
| PL.24492                 | PD.3441     | ABC | #1/0 ACSR          | 7.41Y     | 123.6        | 0.00            | 1.44          | 4.91         | 2        | 105        | 30   | 96      | 0.00       | 0.0       | 2.454             | 0.035          | 5                 | 1 | 3          | 26           |
| PL.23898                 | PL.24492    | ABC | #4 ACSR            | 7.41Y     | 123.5        | 0.01            | 1.46          | 4.70         | 4        | 101        | 28   | 96      | 0.01       | 0.0       | 2.537             | 0.083          | 0                 | 0 | 0          | 23           |
| PL.24387                 | PL.23898    | C   | 6 A (CWC)          | 7.41Y     | 123.5        | 0.00            | 1.46          | 0.23         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 2.542             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3388                  | PL.24387    | C   | 30T                | 7.41Y     | 123.5        | 0.00            | 1.46          | 0.23         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 2.542             | 0.005          | 0                 | 0 | 0          | 1            |
| PL.24388                 | PD.3388     | C   | 6 A (CWC)          | 7.41Y     | 123.5        | 0.00            | 1.46          | 0.23         | 0        | 2          | 0    | 100     | 0.00       | 0.0       | 2.631             | 0.089          | 2                 | 0 | 1          | 1            |
| PL.24081                 | PL.23898    | ABC | #4 ACSR            | 7.41Y     | 123.5        | 0.02            | 1.48          | 4.62         | 4        | 99         | 28   | 96      | 0.02       | 0.0       | 2.670             | 0.133          | 0                 | 0 | 0          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| -----                    |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   |                |                   |   |            |              |
| PL.23899                 | PL.24081    | ABC | #4 ACSR            | 7.41Y     | 123.5        | 0.01            | 1.50          | 4.62         | 4        | 99         | 28   | 96      | 0.01       | 0.0       | 2.754             | 0.084          | 7                 | 2 | 1          | 22           |
| PL.24365                 | PL.23899    | ABC | #4 ACSR            | 7.41Y     | 123.5        | 0.02            | 1.51          | 4.29         | 3        | 92         | 26   | 96      | 0.01       | 0.0       | 2.852             | 0.098          | 2                 | 0 | 1          | 21           |
| PL.24366                 | PL.24365    | ABC | #4 ACSR            | 7.41Y     | 123.5        | 0.02            | 1.53          | 4.21         | 3        | 90         | 25   | 96      | 0.01       | 0.0       | 2.966             | 0.115          | 8                 | 2 | 1          | 20           |
| PL.24364                 | PL.24366    | ABC | #4 ACSR            | 7.41Y     | 123.5        | 0.01            | 1.54          | 3.86         | 3        | 82         | 23   | 96      | 0.01       | 0.0       | 3.022             | 0.056          | 0                 | 0 | 0          | 19           |
| PL.23900                 | PL.24364    | ABC | #4 ACSR            | 7.41Y     | 123.5        | 0.01            | 1.55          | 3.86         | 3        | 82         | 23   | 96      | 0.01       | 0.0       | 3.100             | 0.078          | 0                 | 0 | 0          | 19           |
| PL.24259                 | PL.23900    | ABC | #4 ACSR            | 7.41Y     | 123.4        | 0.01            | 1.56          | 3.86         | 3        | 82         | 23   | 96      | 0.01       | 0.0       | 3.158             | 0.058          | 5                 | 2 | 1          | 19           |
| PL.24260                 | PL.24259    | ABC | #4 ACSR            | 7.41Y     | 123.4        | 0.01            | 1.57          | 3.60         | 3        | 77         | 22   | 96      | 0.01       | 0.0       | 3.263             | 0.105          | 0                 | 0 | 0          | 18           |
| PL.24214                 | PL.24260    | ABC | #4 ACSR            | 7.40Y     | 123.4        | 0.01            | 1.58          | 3.60         | 3        | 77         | 22   | 96      | 0.01       | 0.0       | 3.366             | 0.104          | 0                 | 0 | 0          | 18           |
| PL.24135                 | PL.24214    | ABC | #4 ACSR            | 7.40Y     | 123.4        | 0.02            | 1.61          | 3.60         | 3        | 77         | 22   | 96      | 0.01       | 0.0       | 3.533             | 0.167          | 0                 | 0 | 0          | 18           |
| PL.24136                 | PL.24135    | ABC | #4 ACSR            | 7.40Y     | 123.4        | 0.01            | 1.62          | 3.60         | 3        | 77         | 22   | 96      | 0.01       | 0.0       | 3.604             | 0.071          | 0                 | 0 | 0          | 18           |
| PL.24082                 | PL.24136    | ABC | #4 ACSR            | 7.40Y     | 123.4        | 0.02            | 1.64          | 3.60         | 3        | 77         | 22   | 96      | 0.01       | 0.0       | 3.774             | 0.170          | 0                 | 0 | 0          | 18           |
| PL.24083                 | PL.24082    | ABC | #4 ACSR            | 7.40Y     | 123.3        | 0.01            | 1.65          | 3.35         | 3        | 72         | 20   | 96      | 0.01       | 0.0       | 3.872             | 0.097          | 0                 | 0 | 0          | 14           |
| PL.24215                 | PL.24083    | ABC | #4 ACSR            | 7.40Y     | 123.3        | 0.01            | 1.67          | 3.35         | 3        | 72         | 20   | 96      | 0.01       | 0.0       | 3.982             | 0.111          | 0                 | 0 | 0          | 14           |
| PL.24141                 | PL.24215    | ABC | #4 ACSR            | 7.40Y     | 123.3        | 0.02            | 1.69          | 3.35         | 3        | 72         | 20   | 96      | 0.01       | 0.0       | 4.169             | 0.186          | 0                 | 0 | 0          | 14           |
| PL.24142                 | PL.24141    | ABC | #4 ACSR            | 7.40Y     | 123.3        | 0.02            | 1.71          | 3.35         | 3        | 72         | 20   | 96      | 0.01       | 0.0       | 4.293             | 0.124          | 0                 | 0 | 0          | 14           |
| PL.23907                 | PL.24142    | ABC | #4 ACSR            | 7.40Y     | 123.3        | 0.01            | 1.72          | 3.35         | 3        | 72         | 20   | 96      | 0.01       | 0.0       | 4.396             | 0.103          | 0                 | 0 | 0          | 14           |
| PL.23909                 | PL.23907    | C   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.72          | 2.53         | 2        | 18         | 5    | 96      | 0.00       | 0.0       | 4.401             | 0.005          | 0                 | 0 | 0          | 3            |
| PD.3385                  | PL.23909    | C   | 30T                | 7.40Y     | 123.3        | 0.00            | 1.72          | 2.53         | 0        | 18         | 5    | 96      | 0.00       | 0.0       | 4.401             | 0.005          | 0                 | 0 | 0          | 3            |
| PL.24086                 | PD.3385     | C   | 6 A (CWC)          | 7.40Y     | 123.3        | 0.00            | 1.72          | 1.42         | 1        | 10         | 3    | 96      | 0.00       | 0.0       | 4.500             | 0.100          | 10                | 3 | 2          | 2            |
| PL.23908                 | PD.3385     | C   | #4 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.72          | 1.12         | 1        | 8          | 2    | 97      | 0.00       | 0.0       | 4.432             | 0.031          | 8                 | 2 | 1          | 1            |
| PL.24085                 | PL.23907    | ABC | #4 ACSR            | 7.40Y     | 123.3        | 0.01            | 1.73          | 2.51         | 2        | 54         | 15   | 96      | 0.01       | 0.0       | 4.552             | 0.156          | 0                 | 0 | 0          | 11           |
| PL.24371                 | PL.24085    | C   | #4 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.74          | 7.34         | 6        | 52         | 15   | 96      | 0.00       | 0.0       | 4.557             | 0.005          | 0                 | 0 | 0          | 10           |
| PD.3378                  | PL.24371    | C   | 20T                | 7.40Y     | 123.3        | 0.00            | 1.74          | 7.34         | 0        | 52         | 15   | 96      | 0.00       | 0.0       | 4.557             | 0.005          | 0                 | 0 | 0          | 10           |
| PL.24372                 | PD.3378     | C   | #4 ACSR            | 7.39Y     | 123.2        | 0.03            | 1.76          | 7.34         | 6        | 52         | 15   | 96      | 0.01       | 0.0       | 4.641             | 0.084          | 0                 | 0 | 0          | 10           |
| PL.24143                 | PL.24372    | C   | #4 ACSR            | 7.39Y     | 123.2        | 0.04            | 1.80          | 7.34         | 6        | 52         | 15   | 96      | 0.02       | 0.0       | 4.757             | 0.117          | 0                 | 0 | 0          | 10           |
| PL.24087                 | PL.24143    | C   | #4 ACSR            | 7.39Y     | 123.2        | 0.03            | 1.83          | 7.34         | 6        | 52         | 15   | 96      | 0.01       | 0.0       | 4.847             | 0.089          | 0                 | 0 | 0          | 10           |
| PL.23914                 | PL.24087    | C   | #4 ACSR            | 7.39Y     | 123.1        | 0.04            | 1.87          | 7.34         | 6        | 52         | 15   | 96      | 0.02       | 0.0       | 4.973             | 0.127          | 0                 | 0 | 0          | 10           |
| PL.24088                 | PL.23914    | C   | #4 ACSR            | 7.39Y     | 123.1        | 0.01            | 1.88          | 6.51         | 5        | 46         | 13   | 96      | 0.00       | 0.0       | 5.000             | 0.027          | 0                 | 0 | 0          | 8            |
| PL.24144                 | PL.24088    | C   | #4 ACSR            | 7.38Y     | 123.1        | 0.05            | 1.93          | 6.51         | 5        | 46         | 13   | 96      | 0.02       | 0.0       | 5.184             | 0.184          | 7                 | 2 | 1          | 8            |
| PL.23916                 | PL.24144    | C   | #4 ACSR            | 7.38Y     | 123.1        | 0.00            | 1.93          | 0.45         | 0        | 3          | 1    | 95      | 0.00       | 0.0       | 5.254             | 0.070          | 3                 | 1 | 1          | 1            |
| PL.23917                 | PL.24144    | C   | #4 ACSR            | 7.38Y     | 123.1        | 0.01            | 1.94          | 5.12         | 4        | 36         | 10   | 96      | 0.00       | 0.0       | 5.242             | 0.058          | 0                 | 0 | 0          | 6            |

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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |   | Cons<br>On | Cons<br>Thru |
| PL.24089                 | PL.23917    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.02            | 1.96          | 3.53         | 3        | 25         | 7    | 96      | 0.00       | 0.0       | 5.355             | 0.113          | 7                 | 2 | 1          | 5            |
| PL.23919                 | PL.24089    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.01            | 1.97          | 2.20         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 5.459             | 0.104          | 0                 | 0 | 0          | 3            |
| PL.23920                 | PL.23919    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.97          | 2.20         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 5.491             | 0.031          | 0                 | 0 | 0          | 3            |
| PL.24367                 | PL.23920    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.97          | 2.20         | 2        | 16         | 4    | 97      | 0.00       | 0.0       | 5.520             | 0.029          | 3                 | 1 | 1          | 3            |
| PL.24368                 | PL.24367    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.01            | 1.98          | 1.83         | 1        | 13         | 4    | 96      | 0.00       | 0.0       | 5.603             | 0.083          | 0                 | 0 | 0          | 2            |
| PL.24076                 | PL.24368    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.98          | 0.81         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 5.628             | 0.025          | 6                 | 2 | 1          | 1            |
| PL.24077                 | PL.24368    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.98          | 1.02         | 1        | 7          | 2    | 96      | 0.00       | 0.0       | 5.708             | 0.104          | 7                 | 2 | 1          | 1            |
| PL.24061                 | PL.24089    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.96          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 5.425             | 0.070          | 0                 | 0 | 0          | 1            |
| PL.24060                 | PL.24061    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.96          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 5.533             | 0.108          | 0                 | 0 | 0          | 1            |
| PL.24145                 | PL.24060    | C   | #4 ACSR            | 7.38Y     | 123.0        | 0.00            | 1.96          | 0.31         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 5.631             | 0.098          | 2                 | 1 | 1          | 1            |
| PL.23918                 | PL.23917    | C   | #2 ACSR            | 7.38Y     | 123.1        | 0.00            | 1.94          | 1.59         | 1        | 11         | 3    | 96      | 0.00       | 0.0       | 5.285             | 0.043          | 11                | 3 | 1          | 1            |
| PL.23915                 | PL.23914    | C   | #4 ACSR            | 7.39Y     | 123.1        | 0.00            | 1.87          | 0.83         | 1        | 6          | 2    | 95      | 0.00       | 0.0       | 5.050             | 0.077          | 6                 | 2 | 2          | 2            |
| PL.23910                 | PL.24085    | ABC | #4 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.73          | 0.06         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.592             | 0.040          | 0                 | 0 | 0          | 1            |
| PL.23911                 | PL.23910    | ABC | #4 ACSR            | 7.40Y     | 123.3        | 0.00            | 1.73          | 0.06         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.700             | 0.108          | 1                 | 0 | 1          | 1            |
| PL.23902                 | PL.24082    | B   | 6 A (CWC)          | 7.40Y     | 123.4        | 0.00            | 1.64          | 0.75         | 1        | 5          | 2    | 93      | 0.00       | 0.0       | 3.861             | 0.086          | 0                 | 0 | 0          | 4            |
| PD.3386                  | PL.23902    | B   | 30T                | 7.40Y     | 123.4        | 0.00            | 1.64          | 0.75         | 0        | 5          | 2    | 93      | 0.00       | 0.0       | 3.861             | 0.086          | 0                 | 0 | 0          | 4            |
| PL.24084                 | PD.3386     | B   | 6 A (CWC)          | 7.40Y     | 123.4        | 0.00            | 1.64          | 0.50         | 0        | 4          | 1    | 97      | 0.00       | 0.0       | 3.936             | 0.076          | 4                 | 1 | 1          | 1            |
| PL.23903                 | PD.3386     | B   | 6 A (CWC)          | 7.40Y     | 123.4        | 0.00            | 1.64          | 0.25         | 0        | 2          | 1    | 89      | 0.00       | 0.0       | 4.003             | 0.142          | 1                 | 0 | 1          | 3            |
| PL.24362                 | PL.23903    | B   | 6 A (CWC)          | 7.40Y     | 123.4        | 0.00            | 1.65          | 0.15         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.129             | 0.126          | 0                 | 0 | 1          | 2            |
| PL.24363                 | PL.24362    | B   | 6 A (CWC)          | 7.40Y     | 123.4        | 0.00            | 1.65          | 0.11         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.226             | 0.097          | 0                 | 0 | 0          | 1            |
| PL.24139                 | PL.24363    | B   | 6 A (CWC)          | 7.40Y     | 123.4        | 0.00            | 1.65          | 0.11         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.365             | 0.139          | 0                 | 0 | 0          | 1            |
| PL.24140                 | PL.24139    | B   | 6 A (CWC)          | 7.40Y     | 123.4        | 0.00            | 1.65          | 0.11         | 0        | 1          | 0    | 100     | 0.00       | 0.0       | 4.513             | 0.148          | 1                 | 0 | 1          | 1            |
| PL.24385                 | PL.24136    | C   | #4 ACSR            | 7.40Y     | 123.4        | 0.00            | 1.62          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.609             | 0.005          | 0                 | 0 | 0          | 0            |
| PD.3387                  | PL.24385    | C   | 30T                | 7.40Y     | 123.4        | 0.00            | 1.62          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.609             | 0.005          | 0                 | 0 | 0          | 0            |
| PL.24386                 | PD.3387     | C   | #4 ACSR            | 7.40Y     | 123.4        | 0.00            | 1.62          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.763             | 0.155          | 0                 | 0 | 0          | 0            |
| PL.24137                 | PL.24386    | C   | #4 ACSR            | 7.40Y     | 123.4        | 0.00            | 1.62          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.865             | 0.102          | 0                 | 0 | 0          | 0            |
| PL.24138                 | PL.24137    | C   | #4 ACSR            | 7.40Y     | 123.4        | 0.00            | 1.62          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 3.990             | 0.124          | 0                 | 0 | 0          | 0            |
| PL.23901                 | PL.24138    | C   | #4 ACSR            | 7.40Y     | 123.4        | 0.00            | 1.62          | 0.00         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 4.085             | 0.095          | 0                 | 0 | 0          | 0            |
| PL.23894                 | PL.24216    | C   | #4 ACSR            | 7.42Y     | 123.7        | 0.00            | 1.34          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.269             | 0.032          | 0                 | 0 | 0          | 1            |
| PL.24407                 | PL.23894    | C   | #4 ACSR            | 7.42Y     | 123.7        | 0.00            | 1.34          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.273             | 0.005          | 0                 | 0 | 0          | 1            |
| PD.3397                  | PL.24407    | C   | 50T                | 7.42Y     | 123.7        | 0.00            | 1.34          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.273             | 0.005          | 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: Millers Creek

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/<br>Conductor | Pri<br>kV | Base<br>Volt | Element<br>Drop | Accum<br>Drop | Thru<br>Amps | %<br>Cap | Thru<br>KW | KVAR | %<br>PF | kW<br>Loss | %<br>Loss | mi<br>From<br>Src | Length<br>(mi) | -----Element----- |            |              |   |
|                          |             |     |                    |           |              |                 |               |              |          |            |      |         |            |           |                   | KW             | KVAR              | Cons<br>On | Cons<br>Thru |   |
| PL.24408                 | PD.3397     | C   | #4 ACSR            | 7.42Y     | 123.7        | 0.00            | 1.34          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.300             | 0.026          | 0                 | 0          | 0            | 1 |
| PL.23895                 | PL.24408    | C   | 6 A (CWC)          | 7.42Y     | 123.7        | 0.00            | 1.34          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.482             | 0.182          | 0                 | 0          | 0            | 1 |
| PL.23896                 | PL.23895    | C   | #4 ACSR            | 7.42Y     | 123.7        | 0.00            | 1.34          | 0.02         | 0        | 0          | 0    | 100     | 0.00       | 0.0       | 2.567             | 0.085          | 0                 | 0          | 1            | 1 |
| PL.24413                 | PL.23012    | C   | #1/0 ACSR          | 7.49Y     | 124.9        | 0.00            | 0.15          | 0.80         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 0.296             | 0.057          | 0                 | 0          | 0            | 2 |
| PD.3400                  | PL.24413    | C   | 50T                | 7.49Y     | 124.9        | 0.00            | 0.15          | 0.80         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 0.296             | 0.057          | 0                 | 0          | 0            | 2 |
| PL.24414                 | PD.3400     | C   | #1/0 ACSR          | 7.49Y     | 124.9        | 0.00            | 0.15          | 0.80         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 0.308             | 0.013          | 0                 | 0          | 1            | 2 |
| PL.23891                 | PL.24414    | C   | #1/0 ACSR          | 7.49Y     | 124.9        | 0.00            | 0.15          | 0.80         | 0        | 6          | 2    | 95      | 0.00       | 0.0       | 0.348             | 0.040          | 6                 | 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   | 5206 | 0          | 0           | 0        | 0          | 0           | 152    |         | 0.00   | 5357  | Lowest Voltage = 118.65 on Element PL.20917 |  |  |
| KVAR | 1527 | 0          | 0           | -3       | 0          | 0           | 237    |         |        | 1761  | Max Accm VoltD = 6.35 on Element PL.20917   |  |  |
|      |      |            |             |          |            |             |        |         |        |       | Max Elem VoltD = 0.31 on Element PL.23384   |  |  |