

Unbalanced Voltage Drop Report
Source: 115 kV Source

Database: C:\USERS\BILL\DOCUMENTS\IEEE COMP FEEDER OCT 2012\REVISED IEEE COMP FEEDER.WM\
Title:
Case:

Table with columns: Element Name, Parent Name, Cnf, Type/Conductor, Pri kV, Base Volt, Element Drop, Accum Drop, Thru Amps, % Cap, Thru KW, KVAR, % PF, kW Loss, % Loss, mi From Src, Length (mi), Element (KW, KVAR), Cons On, Cons Thru. Includes rows for 115 kV Source, 700, T-SUB, 701, Reg 1, 702, Bus 702, UG-2, and 703.

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

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Case:

Table with 21 columns: Element Name, Parent Name, Cnf, Type/Conductor, Pri kV, Base Volt, Element Drop, Accum Drop, Thru Amps, % Cap, Thru KW, KVAR, % PF, kW Loss, % Loss, mi From Src, Length (mi), and two columns for Cons (On, Thru). The table lists various electrical components and their characteristics.

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Table with columns: Element Name, Parent Name, Cnf, Type/Conductor, Pri kV, Base Volt, Element Drop, Accum Drop, Thru Amps, % Cap, Thru KW, KVAR, % PF, kW Loss, % Loss, mi From Src, Length (mi), and Cons On/Thru. Rows include elements like 728, UG-10, 729, T23, 730, OH-7, 731, T4, 732, SEC-7, and 733.

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Table with columns: Element Name, Parent Name, Cnf, Type/Conductor, Pri kV, Base Volt, Element Drop, Units Displayed In Volts (Accum Drop, Thru Amps, % Cap, Thru KW, KVAR, % PF, kW Loss, % Loss), mi (From Src), Length (mi), Element (KW, KVAR), Cons On, Cons Thru.

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Table with columns: Element Name, Parent Name, Cnf, Type/Conductor, Pri kV, Base Volt, Element Drop, Accum Drop, Thru Amps, % Cap, Thru KW, KVAR, % PF, kW Loss, % Loss, mi From Src, Length (mi), Element (KW, KVAR), Cons On, Cons Thru. Includes rows for elements like Cap 2, OH-19, 757, OH-20, 758, C T12, 759, OH-21, 760, OH-22, 765.

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Table with columns: Element Name, Parent Name, Cnf, Type/Conductor, Pri kV, Base Volt, Element Drop, Accum Drop, Thru Amps, % Cap, Thru KW, KVAR, % PF, kW Loss, % Loss, mi From Src, Length (mi), KW, KVAR, Cons On, Cons Thru. Includes rows for elements T15, 770, T22, 769, 7691, 7692, 7693, OH-23, 771.

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| Element Name | Parent Name | Cnf | Type/ Conductor | Pri kV | Units Displayed In Volts | | | | | | | | | | | mi From Src | -----Element----- Length (mi) | KW | KVAR | Cons On | Cons Thru |
|--------------|-------------|-----|--------------------|-----------|--------------------------|-----------------|---------------|--------------|----------|------------|---------|------------|-----------|-----|--------|-------------------|-------------------------------------|----|------|------------|--------------|
| | | | | | Base Volt | Element Drop | Accum Drop | Thru Amps | % Cap | Thru KW | % PF | kW Loss | % Loss | | | | | | | | |
| | | | | | -Base Voltage:120.0- | | | | | | | | | | | | | | | | |
| L 7483 | 748 | A-B | Node | 0.24D | 235.7 | 0.00 | 4.28 | 129.67 | 0 | 22 | 14 | 84 | 0.00 | 0.0 | 16.970 | 0.000 | 0 | 0 | 0 | 0 | L |
| P | | B-C | | 0.24D | 237.5 | 0.00 | 2.53 | 129.67 | 0 | 7 | 14 | 48 | | | | | 0 | 0 | 0 | 0 | P |
| L | | C-A | | 0.23D | 233.7 | 0.00 | 6.25 | 129.69 | 0 | 15 | 0 | 100 | | | | | 0 | 0 | 0 | 0 | L |
| L Motor 3 | 7483 | A-B | Motor | 0.24D | 235.7 | 0.00 | 4.28 | 129.67 | 0 | 22 | 14 | 84 | 0.00 | 0.0 | 16.970 | 0.000 | 15 | 9 | 0 | 0 | L |
| P | | B-C | | 0.24D | 237.5 | 0.00 | 2.53 | 129.67 | 0 | 7 | 14 | 48 | | | | | 15 | 9 | 0 | 0 | P |
| L | | C-A | | 0.23D | 233.7 | 0.00 | 6.25 | 129.69 | 0 | 15 | 0 | 100 | | | | | 15 | 9 | 0 | 0 | L |
| 7482 | 748 | B1 | Node | 0.12C | 118.8 | 0.00 | 1.23 | 74.32 | 0 | 7 | 5 | 81 | 0.00 | 0.0 | 16.970 | 0.000 | 15 | 10 | 0 | 0 | |
| | | B2 | | 0.12C | 118.7 | 0.00 | 1.30 | 74.32 | 0 | 7 | 5 | 83 | | | | | 0 | 0 | 0 | 0 | |

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| | Load | Adjustment | Capacitance | Charging | Gen&Motors | Loops&Metas | Losses | No Load Losses | Total |
|------|------|------------|-------------|----------|------------|-------------|--------|----------------|-------|
| KW | 3861 | 5 | 0 | 0 | -22 | 0 | 403 | 0.00 | 4246 |
| KVAR | 1864 | 1 | -938 | -139 | 170 | 0 | 645 | | 1604 |

| Lowest Voltage | | Highest Accumulated Voltage Drop | | Highest Element Voltage Drop | |
|----------------|----------------------|----------------------------------|-------|------------------------------|----|
| A-Phase -> | 111.61 volts on 6331 | 17.72 volts on | Sec-8 | 1603.99 volts on | T8 |
| B-Phase -> | 112.65 volts on 6331 | 12.64 volts on | Sec-8 | 1200.22 volts on | T8 |
| C-Phase -> | 113.03 volts on OH-8 | 16.58 volts on | Sec-8 | 1566.09 volts on | T8 |