

**PHYSICAL COLLOCATION
Bell Atlantic - Pennsylvania
FCC - 1**

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

| <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
|-------------------------------------|---------------------------------|-------------|-------------|---------------------|---------------------|
| <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>SWITCH EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 TOTAL POWER PLANT UNIT INVESTMENT | WP 5.0, PG 3, LINE 10 | - | - | \$236.49 | \$236.49 |
| 2 EF&I FACTOR - FRC 377C | WP 8.0, PG 1, LINE 24G | - | - | 2.8218 | 2.8218 |
| 3 INSTALLED INVESTMENT (NRC) | LINE 1 x LINE 2 | - | - | \$667.32 | \$667.32 |
| 4 UTILIZATION FACTOR | ENGINEERING | - | - | 1.0000 | 1.0000 |
| 5 TOTAL IN-PLACE INVESTMENT | LINE 3 x LINE 4 | - | - | \$667.32 | \$667.32 |
| 6 LAND INVESTMENT FACTOR | WP 8.0, PG 1, LINE 22G | 0.0055 | - | - | 0.0055 |
| 7 BUILDING INVESTMENT FACTOR | WP 8.0, PG 1, LINE 23G | - | 0.1722 | - | 0.1722 |
| 8 LAND INVESTMENT | LINE 5E x LINE 6C | \$3.67 | - | - | \$3.67 |
| 9 BUILDING INVESTMENT | LINE 5E x LINE 7D | - | \$114.91 | - | \$114.91 |
| 10 TOTAL UNIT INVESTMENT | LINE 5E + LINE 8C + LINE 9D | \$3.67 | \$114.91 | \$667.32 | \$785.90 |
| 11 WEIGHTED UNIT INVESTMENT | INE 10 x WP 8.0, PG 1, LINE 26G | \$1.07 | \$33.35 | \$193.65 | \$228.06 |

**PHYSICAL COLLOCATION
Verizon - Pennsylvania
FCC - 1**

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

| <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
|----------------------------|---------------------------------|---------------|---------------|------------------|---------------------|
| <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>CKT EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 TOTAL UNIT INVESTMENT | WP 5.0, PG 2 LINE 10 | \$3.67 | \$114.91 | \$667.32 | \$785.90 |
| 2 DEPRECIATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.00 | \$2.36 | \$26.81 | \$29.17 |
| 3 COST OF MONEY | LINE 1 X WP 8.0 - ACF FACTOR | \$0.41 | \$9.61 | \$36.37 | \$46.39 |
| 4 INCOME TAX | LINE 1 X WP 8.0 - ACF FACTOR | \$0.22 | \$5.11 | \$19.37 | \$24.71 |
| 5 MAINTENANCE | LINE 1 X WP 8.0 - ACF FACTOR | \$0.10 | \$3.26 | \$38.27 | \$41.64 |
| 6 ADMINISTRATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.15 | \$4.59 | \$26.62 | \$31.35 |
| 7 OTHER TAX | LINE 1 X WP 8.0 - ACF FACTOR | <u>\$0.17</u> | <u>\$5.41</u> | <u>\$1.34</u> | <u>\$6.92</u> |
| 8 ANNUAL DIRECT COST | SUM (LINE 2 THRU LINE 7) | \$1.06 | \$30.34 | \$148.78 | \$180.18 |
| 9 WEIGHTED UNIT INVESTMENT | LINE 8 x WP 6.0, PG 1, LINE 26G | \$0.31 | \$8.80 | \$43.18 | \$52.29 |

PHYSICAL COLLOCATION
Verizon - Pennsylvania
FCC NO. 1

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

| LINE NO. | A ITEM | B SOURCE | C METRO | D URBAN | E SUBURBAN | F RURAL |
|----------|--|--------------------------|-----------------|------------|---------------|------------|
| | Microprocessor Plant (BUSS BAR) | | | | | |
| 1 | AMP | Engineering | 5,000 | 2,600 | 2,600 | 600 |
| 2 | Material | Engineering | \$27,154 | \$23,879 | \$23,879 | \$18,349 |
| 3 | Unit Investment Per AMP | (L2 / L1) | \$5.43 | \$9.18 | \$9.18 | \$30.58 |
| 4 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 5 | Statewide Unit Investment Per AMP | \$9.46 | \$0.92 | \$5.47 | \$1.76 | \$1.31 |
| | Rectifiers | | | | | |
| 6 | Quantity | Engineering | 6 | 6 | 6 | 7 |
| 7 | AMPS per unit | Engineering | 400 | 200 | 200 | 50 |
| 8 | Tot. AMPS | (L6 * L7) | 2,400 | 1,200 | 1,200 | 350 |
| 9 | Utilization | (L6-1) / L6) | 83.33% | 83.33% | 83.33% | 85.71% |
| 10 | Material | Engineering | \$55,502 | \$42,046 | \$42,046 | \$15,900 |
| 11 | Total Investment | (L10 / L9) | \$66,602 | \$50,455 | \$50,455 | \$18,550 |
| 12 | Unit Investment Per AMP | (L11 / L8) | \$27.75 | \$42.05 | \$42.05 | \$53.00 |
| 13 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 14 | Statewide Unit Investment Per AMP | \$40.08 | \$4.73 | \$25.02 | \$8.07 | \$2.26 |
| | Batteries | | | | | |
| 15 | Strings | Engineering | 3 | 3 | 3 | 2 |
| 16 | AMPS per String | Engineering | 688 | 310 | 310 | 310 |
| 17 | Tot. AMPS | (L15 * L16) | 2,064 | 930 | 930 | 620 |
| 18 | Total Investment | Engineering | \$80,952 | \$34,965 | \$34,965 | \$23,310 |
| 19 | Unit Investment Per AMP | (L18 / L17) | \$39.22 | \$37.60 | \$37.60 | \$37.60 |
| 20 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 21 | Statewide Unit Investment Per AMP | \$37.87 | \$6.68 | \$22.37 | \$7.21 | \$1.61 |
| | Automatic Breaker | | | | | |
| 22 | AMP per Breaker | Engineering | 1,600 | 1,200 | 800 | 400 |
| 23 | Total Investment | Engineering | \$50,000 | \$40,000 | \$35,000 | \$20,000 |
| 24 | Unit Investment Per AMP | (L23 / L22) | \$31.25 | \$33.33 | \$43.75 | \$50.00 |
| 25 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 26 | Statewide Unit Investment Per AMP | \$35.69 | \$5.32 | \$19.84 | \$8.40 | \$2.14 |
| | Power Distribution Service Cabinet | | | | | |
| 27 | Amps | Engineering | 1,600 | 800 | 400 | 400 |
| 28 | Material | Engineering | \$13,976 | \$7,788 | \$5,677 | \$3,467 |
| 29 | Unit Investment Per AMP | (L28 / L27) | \$8.74 | \$9.74 | \$14.19 | \$8.67 |
| 30 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 31 | Statewide Unit Investment Per AMP | \$10.37 | \$1.49 | \$5.79 | \$2.72 | \$0.37 |
| | Emergency engine/turbine (auto start) | | | | | |
| 32 | AMP Capacity | Engineering | 2,605 | 1,736 | 1,111 | 434 |
| 33 | Utilization | Engineering | 70% | 70% | 70% | 70% |
| 34 | Utilized AMPS | (L32 * L33) | 1,824 | 1,215 | 778 | 304 |
| 35 | Emerg. Engine Invest. | Engineering | \$130,765 | \$78,249 | \$53,871 | \$41,874 |
| 36 | Conduit/Emer Lights | Engineering | \$45,629 | \$30,487 | \$23,332 | \$11,810 |
| 37 | Total Investment | (L35 + L36) | \$176,394 | \$108,736 | \$77,203 | \$53,684 |
| 38 | Unit Investment Per AMP | (L37 / L34) | \$96.73 | \$89.48 | \$99.27 | \$176.71 |
| 39 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 40 | Statewide Unit Investment Per AMP | \$96.32 | \$16.47 | \$53.25 | \$19.05 | \$7.55 |
| | Battery Distribution Fuse Bay | | | | | |
| 41 | AMP Capacity | Engineering | 800 | 800 | 800 | 800 |
| 42 | Material | Engineering | \$5,355 | \$5,355 | \$5,355 | \$5,355 |
| 43 | Unit Investment Per AMP | (L42 / L41) | \$6.69 | \$6.69 | \$6.69 | \$6.69 |
| 44 | Statewide Weighting | Service Costs | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 45 | Statewide Unit Investment Per AMP | \$6.69 | \$1.14 | \$3.98 | \$1.28 | \$0.29 |
| 46 | Total Unit Investment - (Less than or Equal to 60 AMP's) - Sum Lines (5C+14C+21C+26C+31C+40C+45C) | | \$236.49 | | | |

PHYSICAL COLLOCATION
 Verizon - Pennsylvania
 FCC - 1

DC POWER - GREATER THAN 60 AMPS

| <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
|-------------------------------------|---------------------------------|-------------|-------------|---------------------|---------------------|
| <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>SWITCH EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 TOTAL POWER PLANT UNIT INVESTMENT | WP 5.1, PG 3, LINE 10 | - | - | \$238.15 | \$238.15 |
| 2 EF&I FACTOR - FRC 377C | WP 8.0, PG 1, LINE 24G | - | - | 2.8218 | 2.8218 |
| 3 INSTALLED INVESTMENT (NRC) | LINE 1 x LINE 2 | - | - | \$672.02 | \$672.02 |
| 4 UTILIZATION FACTOR | ENGINEERING | - | - | 1.0000 | 1.0000 |
| 5 TOTAL IN-PLACE INVESTMENT | LINE 3 x LINE 4 | - | - | \$672.02 | \$672.02 |
| 6 LAND INVESTMENT FACTOR | WP 8.0, PG 1, LINE 22G | 0.0055 | - | - | 0.0055 |
| 7 BUILDING INVESTMENT FACTOR | WP 8.0, PG 1, LINE 23G | - | 0.1722 | - | 0.1722 |
| 8 LAND INVESTMENT | LINE 5E x LINE 6C | \$3.70 | - | - | \$3.70 |
| 9 BUILDING INVESTMENT | LINE 5E x LINE 7D | - | \$115.72 | - | \$115.72 |
| 10 TOTAL UNIT INVESTMENT | LINE 5E + LINE 8C + LINE 9D | \$3.70 | \$115.72 | \$672.02 | \$791.44 |
| 11 WEIGHTED UNIT INVESTMENT | INE 10 x WP 8.0, PG 1, LINE 26G | \$1.07 | \$33.58 | \$195.01 | \$229.67 |

**PHYSICAL COLLOCATION
Verizon - Pennsylvania
FCC - 1**

DC POWER - GREATER THAN 60 AMPS

| <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
|----------------------------|---------------------------------|---------------|---------------|------------------|---------------------|
| <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>CKT EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 TOTAL UNIT INVESTMENT | WP 5.1, PG 2 LINE 10 | \$3.70 | \$115.72 | \$672.02 | \$791.44 |
| 2 DEPRECIATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.00 | \$2.37 | \$27.00 | \$29.37 |
| 3 COST OF MONEY | LINE 1 X WP 8.0 - ACF FACTOR | \$0.42 | \$9.67 | \$36.63 | \$46.72 |
| 4 INCOME TAX | LINE 1 X WP 8.0 - ACF FACTOR | \$0.22 | \$5.15 | \$19.51 | \$24.88 |
| 5 MAINTENANCE | LINE 1 X WP 8.0 - ACF FACTOR | \$0.10 | \$3.29 | \$38.54 | \$41.93 |
| 6 ADMINISTRATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.15 | \$4.62 | \$26.81 | \$31.57 |
| 7 OTHER TAX | LINE 1 X WP 8.0 - ACF FACTOR | <u>\$0.17</u> | <u>\$5.45</u> | <u>\$1.35</u> | <u>\$6.97</u> |
| 8 ANNUAL DIRECT COST | SUM (LINE 2 THRU LINE 7) | \$1.07 | \$30.55 | \$149.83 | \$181.45 |
| 9 WEIGHTED UNIT INVESTMENT | LINE 8 x WP 8.0, PG 1, LINE 26G | \$0.31 | \$8.87 | \$43.48 | \$52.65 |

PHYSICAL COLLOCATION
Verizon - Pennsylvania
FCC NO. 1

DC POWER - GREATER THAN 60 AMPS

| LINE NO. | A ITEM | B SOURCE | C METRO | D URBAN | E SUBURBAN | F RURAL |
|--|--|--------------------------|-----------------|------------|---------------|------------|
| Microprocessor Plant (BUSS BAR) | | | | | | |
| 1 | AMP | Engineering | 5,000 | 2,600 | 2,600 | 600 |
| 2 | Material | Engineering | \$27,154 | \$23,879 | \$23,879 | \$18,349 |
| 3 | Unit Investment Per AMP | (L2 / L1) | \$5.43 | \$9.18 | \$9.18 | \$30.58 |
| 4 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 5 | Statewide Unit Investment Per AMP | | \$9.46 | \$5.47 | \$1.76 | \$1.31 |
| Rectifiers | | | | | | |
| 6 | Quantity | Engineering | 6 | 6 | 6 | 7 |
| 7 | AMPS per unit | Engineering | 400 | 200 | 200 | 50 |
| 8 | Tot. AMPS | (L6 * L7) | 2,400 | 1,200 | 1,200 | 350 |
| 9 | Utilization | (L6-1) / L6) | 83.33% | 83.33% | 83.33% | 85.71% |
| 10 | Material | Engineering | \$55,502 | \$42,046 | \$42,046 | \$15,900 |
| 11 | Total Investment | (L10 / L9) | \$66,802 | \$50,455 | \$50,455 | \$18,550 |
| 12 | Unit Investment Per AMP | (L11 / L8) | \$27.75 | \$42.05 | \$42.05 | \$53.00 |
| 13 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 14 | Statewide Unit Investment Per AMP | | \$40.08 | \$4.73 | \$25.02 | \$8.07 |
| Batteries | | | | | | |
| 15 | Strings | Engineering | 3 | 3 | 3 | 2 |
| 16 | AMPS per String | Engineering | 688 | 310 | 310 | 310 |
| 17 | Tot. AMPS | (L15 * L16) | 2,064 | 930 | 930 | 620 |
| 18 | Total Investment | Engineering | \$80,952 | \$34,965 | \$34,965 | \$23,310 |
| 19 | Unit Investment Per AMP | (L18 / L17) | \$39.22 | \$37.60 | \$37.60 | \$37.60 |
| 20 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 21 | Statewide Unit Investment Per AMP | | \$37.87 | \$6.68 | \$22.37 | \$7.21 |
| Automatic Breaker | | | | | | |
| 22 | AMP per Breaker | Engineering | 1,600 | 1,200 | 800 | 400 |
| 23 | Total Investment | Engineering | \$50,000 | \$40,000 | \$35,000 | \$20,000 |
| 24 | Unit Investment Per AMP | (L23 / L22) | \$31.25 | \$33.33 | \$43.75 | \$50.00 |
| 25 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 26 | Statewide Unit Investment Per AMP | | \$35.69 | \$5.32 | \$19.84 | \$8.40 |
| Power Distribution Service Cabinet | | | | | | |
| 27 | Amps | Engineering | 1,600 | 800 | 400 | 400 |
| 28 | Material | Engineering | \$13,976 | \$7,788 | \$5,677 | \$3,467 |
| 29 | Unit Investment Per AMP | (L28 / L27) | \$8.74 | \$9.74 | \$14.19 | \$8.67 |
| 30 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 31 | Statewide Unit Investment Per AMP | | \$10.37 | \$1.49 | \$5.79 | \$2.72 |
| Emergency engine/turbine (auto start) | | | | | | |
| 32 | AMP Capacity | Engineering | 2,605 | 1,736 | 1,111 | 434 |
| 33 | Utilization | Engineering | 70% | 70% | 70% | 70% |
| 34 | Utilized AMPS | (L32 * L33) | 1,824 | 1,215 | 778 | 304 |
| 35 | Emerg. Engine Invest. | Engineering | \$130,765 | \$78,249 | \$53,871 | \$41,874 |
| 36 | Conduit/Emer Lights | Engineering | \$45,629 | \$30,487 | \$23,332 | \$11,810 |
| 37 | Total Investment | (L35 + L36) | \$176,394 | \$108,736 | \$77,203 | \$53,684 |
| 38 | Unit Investment Per AMP | (L37 / L34) | \$96.73 | \$89.48 | \$99.27 | \$176.71 |
| 39 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 40 | Statewide Unit Investment Per AMP | | \$96.32 | \$16.47 | \$53.25 | \$19.05 |
| Power Plant Distribution Bay | | | | | | |
| 41 | AMP Capacity | Engineering | 2,600 | 1,200 | 1,200 | 300 |
| 42 | Material | Engineering | \$12,747 | \$10,388 | \$10,388 | \$4,993 |
| 43 | Unit Investment Per AMP | (L42 / L41) | \$4.90 | \$8.66 | \$8.66 | \$16.64 |
| 44 | Statewide Weighting | WP 8.0, Col G, Lns 27-30 | 0.1703 | 0.5951 | 0.1919 | 0.0427 |
| 45 | Statewide Unit Investment Per AMP | | \$8.36 | \$0.83 | \$5.15 | \$1.66 |
| 46 | Total Unit Investment - (Greater than 60 AMPS) -Sum Lines | | \$238.15 | | | |
| | (5C+14C+21C+26C+31C+40C + 45C) | | | | | |

PHYSICAL COLLOCATION
Verizon - Virginia
FCC - 1

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

| <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
|-------------------------------------|---------------------------------|-------------|-------------|---------------------|---------------------|
| <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>SWITCH EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 TOTAL POWER PLANT UNIT INVESTMENT | WP 6.0, PG 3, LINE 10 | - | - | \$236.39 | \$236.39 |
| 2 EF&I FACTOR - FRC 377C | WP 8.0, PG 1, LINE 24H | - | - | 2.8218 | 2.8218 |
| 3 INSTALLED INVESTMENT (NRC) | LINE 1 x LINE 2 | - | - | \$667.06 | \$667.06 |
| 4 UTILIZATION FACTOR | ENGINEERING | - | - | 1.0000 | 1.0000 |
| 5 TOTAL IN-PLACE INVESTMENT | LINE 3 x LINE 4 | - | - | \$667.06 | \$667.06 |
| 6 LAND INVESTMENT FACTOR | WP 8.0, PG 1, LINE 22H | 0.0037 | - | - | 0.0037 |
| 7 BUILDING INVESTMENT FACTOR | WP 8.0, PG 1, LINE 23H | - | 0.1569 | - | 0.1569 |
| 8 LAND INVESTMENT | LINE 5E x LINE 6C | \$2.47 | - | - | \$2.47 |
| 9 BUILDING INVESTMENT | LINE 5E x LINE 7D | - | \$104.66 | - | \$104.66 |
| 10 TOTAL UNIT INVESTMENT | LINE 5E + LINE 8C + LINE 9D | \$2.47 | \$104.66 | \$667.06 | \$774.19 |
| 11 WEIGHTED UNIT INVESTMENT | INE 10 x WP 8.0, PG 1, LINE 26H | \$0.38 | \$16.27 | \$103.72 | \$120.38 |

PHYSICAL COLLOCATION
Verizon - Virginia
FCC - 1

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

| | <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
|---|--------------------------|---------------------------------|-------------|-------------|------------------|---------------------|
| | <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>CKT EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 | TOTAL UNIT INVESTMENT | WP 6.0, PG 2 LINE 10 | \$2.47 | \$104.66 | \$667.06 | \$774.19 |
| 2 | DEPRECIATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.00 | \$2.28 | \$26.49 | \$28.77 |
| 3 | COST OF MONEY | LINE 1 X WP 8.0 - ACF FACTOR | \$0.28 | \$8.73 | \$37.46 | \$46.47 |
| 4 | INCOME TAX | LINE 1 X WP 8.0 - ACF FACTOR | \$0.13 | \$4.18 | \$17.91 | \$22.22 |
| 5 | MAINTENANCE | LINE 1 X WP 8.0 - ACF FACTOR | \$0.08 | \$3.60 | \$35.73 | \$39.41 |
| 6 | ADMINISTRATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.10 | \$4.07 | \$25.97 | \$30.14 |
| 7 | OTHER TAX | LINE 1 X WP 8.0 - ACF FACTOR | \$0.02 | \$0.85 | \$5.42 | <u>\$6.29</u> |
| 8 | ANNUAL DIRECT COST | SUM (LINE 2 THRU LINE 7) | \$0.61 | \$23.71 | \$148.98 | \$173.30 |
| 9 | WEIGHTED UNIT INVESTMENT | LINE 8 x WP 8.0, PG 1, LINE 26H | \$0.10 | \$3.69 | \$23.16 | \$26.95 |

PHYSICAL COLLOCATION
Verizon - Virginia
FCC NO. 1

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

| LINE NO. | A ITEM | B SOURCE | C METRO | D URBAN | E SUBURBAN | F RURAL |
|--|--|--------------------------|-----------------|------------|---------------|------------|
| Microprocessor Plant (BUSS BAR) | | | | | | |
| 1 | AMP | Engineering | 5,000 | 2,600 | 2,600 | 600 |
| 2 | Material | Engineering | \$27,154 | \$23,879 | \$23,879 | \$18,349 |
| 3 | Unit Investment Per AMP | (L2 / L1) | \$5.43 | \$9.18 | \$9.18 | \$30.58 |
| 4 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 5 | Statewide Unit Investment Per AMP | \$8.98 | \$0.80 | \$4.72 | \$2.96 | \$0.50 |
| Rectifiers | | | | | | |
| 6 | Quantity | Engineering | 6 | 6 | 6 | 7 |
| 7 | AMPS per unit | Engineering | 400 | 200 | 200 | 50 |
| 8 | Tot. AMPS | (L6 * L7) | 2,400 | 1,200 | 1,200 | 350 |
| 9 | Utilization | (L6-1) / L6) | 83.33% | 83.33% | 83.33% | 85.71% |
| 10 | Material | Engineering | \$55,502 | \$42,046 | \$42,046 | \$15,900 |
| 11 | Total Investment | (L10 / L9) | \$66,602 | \$50,455 | \$50,455 | \$18,550 |
| 12 | Unit Investment Per AMP | (L11 / L8) | \$27.75 | \$42.05 | \$42.05 | \$53.00 |
| 13 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 14 | Statewide Unit Investment Per AMP | \$40.12 | \$4.08 | \$21.60 | \$13.57 | \$0.86 |
| Batteries | | | | | | |
| 15 | Strings | Engineering | 3 | 3 | 3 | 2 |
| 16 | AMPS per String | Engineering | 688 | 310 | 310 | 310 |
| 17 | Tot. AMPS | (L15 * L16) | 2,064 | 930 | 930 | 620 |
| 18 | Total Investment | Engineering | \$80,952 | \$34,965 | \$34,965 | \$23,310 |
| 19 | Unit Investment Per AMP | (L18 / L17) | \$39.22 | \$37.60 | \$37.60 | \$37.60 |
| 20 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 21 | Statewide Unit Investment Per AMP | \$37.83 | \$5.77 | \$19.31 | \$12.14 | \$0.61 |
| Automatic Breaker | | | | | | |
| 22 | AMP per Breaker | Engineering | 1,600 | 1,200 | 800 | 400 |
| 23 | Total Investment | Engineering | \$50,000 | \$40,000 | \$35,000 | \$20,000 |
| 24 | Unit Investment Per AMP | (L23 / L22) | \$31.25 | \$33.33 | \$43.75 | \$50.00 |
| 25 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 26 | Statewide Unit Investment Per AMP | \$36.66 | \$4.60 | \$17.12 | \$14.12 | \$0.81 |
| Power Distribution Service Cabinet | | | | | | |
| 27 | Amps | Engineering | 1,600 | 800 | 400 | 400 |
| 28 | Material | Engineering | \$13,976 | \$7,788 | \$5,677 | \$3,467 |
| 29 | Unit Investment Per AMP | (L28 / L27) | \$8.74 | \$9.74 | \$14.19 | \$8.67 |
| 30 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 31 | Statewide Unit Investment Per AMP | \$11.01 | \$1.29 | \$5.00 | \$4.58 | \$0.14 |
| Emergency engine/turbine (auto start) | | | | | | |
| 32 | AMP Capacity | Engineering | 2,605 | 1,736 | 1,111 | 434 |
| 33 | Utilization | Engineering | 70% | 70% | 70% | 70% |
| 34 | Utilized AMPS | (L32 * L33) | 1,824 | 1,215 | 778 | 304 |
| 35 | Emerg. Engine Invest. | Engineering | \$130,765 | \$78,249 | \$53,871 | \$41,874 |
| 36 | Conduit/Emer Lights | Engineering | \$45,629 | \$30,487 | \$23,332 | \$11,810 |
| 37 | Total Investment | (L35 + L36) | \$176,394 | \$108,736 | \$77,203 | \$53,684 |
| 38 | Unit Investment Per AMP | (L37 / L34) | \$96.73 | \$89.48 | \$99.27 | \$176.71 |
| 39 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 40 | Statewide Unit Investment Per AMP | \$95.11 | \$14.24 | \$45.97 | \$32.04 | \$2.86 |
| Battery Distribution Fuse Bay | | | | | | |
| 41 | AMP Capacity | Engineering | 800 | 800 | 800 | 800 |
| 42 | Material | Engineering | \$5,355 | \$5,355 | \$5,355 | \$5,355 |
| 43 | Unit Investment Per AMP | (L42 / L41) | \$6.69 | \$6.69 | \$6.69 | \$6.69 |
| 44 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 45 | Statewide Unit Investment Per AMP | \$6.69 | \$0.99 | \$3.44 | \$2.16 | \$0.11 |
| 46 | Total Unit Investment - (Less than or Equal to 60 AMP's) - Sum Lines (5C+14C+21C+26C+31C+40C+45C) | | \$236.39 | | | |

PHYSICAL COLLOCATION
Verizon - Virginia
FCC - 1

DC POWER - GREATER THAN 60 AMPS

| <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
|-------------------------------------|---------------------------------|-------------|-------------|---------------------|---------------------|
| <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>SWITCH EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 TOTAL POWER PLANT UNIT INVESTMENT | WP 6.1, PG 3, LINE 10 | - | - | \$237.93 | \$237.93 |
| 2 EF&I FACTOR - FRC 377C | WP 8.0, PG 1, LINE 24H | - | - | 2.8218 | 2.8218 |
| 3 INSTALLED INVESTMENT (NRC) | LINE 1 x LINE 2 | - | - | \$671.40 | \$671.40 |
| 4 UTILIZATION FACTOR | ENGINEERING | - | - | 1.0000 | 1.0000 |
| 5 TOTAL IN-PLACE INVESTMENT | LINE 3 x LINE 4 | - | - | \$671.40 | \$671.40 |
| 6 LAND INVESTMENT FACTOR | WP 8.0, PG 1, LINE 22H | 0.0037 | - | - | 0.0037 |
| 7 BUILDING INVESTMENT FACTOR | WP 8.0, PG 1, LINE 23H | - | 0.1569 | - | 0.1569 |
| 8 LAND INVESTMENT | LINE 5E x LINE 6C | \$2.48 | - | - | \$2.48 |
| 9 BUILDING INVESTMENT | LINE 5E x LINE 7D | - | \$105.34 | - | \$105.34 |
| 10 TOTAL UNIT INVESTMENT | LINE 5E + LINE 8C + LINE 9D | \$2.48 | \$105.34 | \$671.40 | \$779.23 |
| 11 WEIGHTED UNIT INVESTMENT | INE 10 x WP 8.0, PG 1, LINE 26G | \$0.39 | \$16.38 | \$104.40 | \$121.16 |

PHYSICAL COLLOCATION
Verizon - Virginia
FCC - 1

DC POWER - GREATER THAN 60 AMPS

| | A | B | C | D | E | F |
|---|--------------------------|---------------------------------|-------------|-------------|------------------|---------------------|
| | <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>CKT EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 | TOTAL UNIT INVESTMENT | WP 6.1, PG 2 LINE 10 | \$2.48 | \$105.34 | \$671.40 | \$779.23 |
| 2 | DEPRECIATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.00 | \$2.30 | \$26.66 | \$28.96 |
| 3 | COST OF MONEY | LINE 1 X WP 8.0 - ACF FACTOR | \$0.28 | \$8.79 | \$37.70 | \$46.77 |
| 4 | INCOME TAX | LINE 1 X WP 8.0 - ACF FACTOR | \$0.13 | \$4.20 | \$18.03 | \$22.37 |
| 5 | MAINTENANCE | LINE 1 X WP 8.0 - ACF FACTOR | \$0.09 | \$3.62 | \$35.96 | \$39.67 |
| 6 | ADMINISTRATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.10 | \$4.10 | \$26.14 | \$30.33 |
| 7 | OTHER TAX | LINE 1 X WP 8.0 - ACF FACTOR | \$0.02 | \$0.85 | \$5.46 | <u>\$6.33</u> |
| 8 | ANNUAL DIRECT COST | SUM (LINE 2 THRU LINE 7) | \$0.62 | \$23.86 | \$149.95 | \$174.43 |
| 9 | WEIGHTED UNIT INVESTMENT | LINE 8 x WP 8.0, PG 1, LINE 26H | \$0.10 | \$3.71 | \$23.32 | \$27.12 |

PHYSICAL COLLOCATION
Verizon - Virginia
FCC NO. 1

DC POWER - GREATER THAN 60 AMPS

| LINE NO. | A ITEM | B SOURCE | C METRO | D URBAN | E SUBURBAN | F RURAL |
|--|---|--------------------------|------------|------------|---------------|------------|
| Microprocessor Plant (BUSS BAR) | | | | | | |
| 1 | AMP | Engineering | 5,000 | 2,600 | 2,600 | 600 |
| 2 | Material | Engineering | \$27,154 | \$23,879 | \$23,879 | \$18,349 |
| 3 | Unit Investment Per AMP | (L2 / L1) | \$5.43 | \$9.18 | \$9.18 | \$30.58 |
| 4 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 5 | Statewide Unit Investment Per AMP | \$8.98 | \$0.80 | \$4.72 | \$2.96 | \$0.50 |
| Rectifiers | | | | | | |
| 6 | Quantity | Engineering | 6 | 6 | 6 | 7 |
| 7 | AMPS per unit | Engineering | 400 | 200 | 200 | 50 |
| 8 | Tot. AMPS | (L6 * L7) | 2,400 | 1,200 | 1,200 | 350 |
| 9 | Utilization | (L6-1) / L6) | 83.33% | 83.33% | 83.33% | 85.71% |
| 10 | Material | Engineering | \$55,502 | \$42,046 | \$42,046 | \$15,900 |
| 11 | Total Investment | (L10 / L9) | \$66,602 | \$50,455 | \$50,455 | \$18,550 |
| 12 | Unit Investment Per AMP | (L11 / L8) | \$27.75 | \$42.05 | \$42.05 | \$53.00 |
| 13 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 14 | Statewide Unit Investment Per AMP | \$40.12 | \$4.08 | \$21.60 | \$13.57 | \$0.86 |
| Batteries | | | | | | |
| 15 | Strings | Engineering | 3 | 3 | 3 | 2 |
| 16 | AMPS per String | Engineering | 688 | 310 | 310 | 310 |
| 17 | Tot. AMPS | (L15 * L16) | 2,064 | 930 | 930 | 620 |
| 18 | Total Investment | Engineering | \$80,952 | \$34,965 | \$34,965 | \$23,310 |
| 19 | Unit Investment Per AMP | (L18 / L17) | \$39.22 | \$37.60 | \$37.60 | \$37.60 |
| 20 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 21 | Statewide Unit Investment Per AMP | \$37.83 | \$5.77 | \$19.31 | \$12.14 | \$0.61 |
| Automatic Breaker | | | | | | |
| 22 | AMP per Breaker | Engineering | 1,600 | 1,200 | 800 | 400 |
| 23 | Total Investment | Engineering | \$50,000 | \$40,000 | \$35,000 | \$20,000 |
| 24 | Unit Investment Per AMP | (L23 / L22) | \$31.25 | \$33.33 | \$43.75 | \$50.00 |
| 25 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 26 | Statewide Unit Investment Per AMP | \$36.66 | \$4.60 | \$17.12 | \$14.12 | \$0.81 |
| Power Distribution Service Cabinet | | | | | | |
| 27 | Amps | Engineering | 1,600 | 800 | 400 | 400 |
| 28 | Material | Engineering | \$13,976 | \$7,788 | \$5,677 | \$3,467 |
| 29 | Unit Investment Per AMP | (L28 / L27) | \$8.74 | \$9.74 | \$14.19 | \$8.67 |
| 30 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 31 | Statewide Unit Investment Per AMP | \$11.01 | \$1.29 | \$5.00 | \$4.58 | \$0.14 |
| Emergency engine/turbine (auto start) | | | | | | |
| 32 | AMP Capacity | Engineering | 2,605 | 1,736 | 1,111 | 434 |
| 33 | Utilization | Engineering | 70% | 70% | 70% | 70% |
| 34 | Utilized AMPS | (L32 * L33) | 1,824 | 1,215 | 778 | 304 |
| 35 | Emerg. Engine Invest. | Engineering | \$130,765 | \$78,249 | \$53,871 | \$41,874 |
| 36 | Conduit/Emer Lights | Engineering | \$45,629 | \$30,487 | \$23,332 | \$11,810 |
| 37 | Total Investment | (L35 + L36) | \$176,394 | \$108,736 | \$77,203 | \$53,684 |
| 38 | Unit Investment Per AMP | (L37 / L34) | \$96.73 | \$89.48 | \$99.27 | \$176.71 |
| 39 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 40 | Statewide Unit Investment Per AMP | \$95.11 | \$14.24 | \$45.97 | \$32.04 | \$2.86 |
| Power Plant Distribution Bay | | | | | | |
| 41 | AMP Capacity | Engineering | 2,600 | 1,200 | 1,200 | 300 |
| 42 | Material | Engineering | \$12,747 | \$10,388 | \$10,388 | \$4,993 |
| 43 | Unit Investment Per AMP | (L42 / L41) | \$4.90 | \$8.66 | \$8.66 | \$16.64 |
| 44 | Statewide Weighting | WP 8.0, Col H, Lns 27-30 | 0.1472 | 0.5137 | 0.3228 | 0.0162 |
| 45 | Statewide Unit Investment Per AMP | \$8.23 | \$0.72 | \$4.45 | \$2.79 | \$0.27 |
| 46 | Total Unit Investment - (Greater than 60 AMPS) - Sum Lines (5C+14C+21C+26C+31C+40C + 45C) | \$237.93 | | | | |

PHYSICAL COLLOCATION
Verizon - West Virginia
FCC - 1

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

| | <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
|----|-----------------------------------|----------------------------------|-------------|-------------|---------------------|---------------------|
| | <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>SWITCH EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 | TOTAL POWER PLANT UNIT INVESTMENT | WP 7.0, PG 3, LINE 10 | - | - | \$266.74 | \$266.74 |
| 2 | EF&I FACTOR - FRC 377C | WP 8.0, PG 1, LINE 24I | - | - | 2.8218 | 2.8218 |
| 3 | INSTALLED INVESTMENT (NRC) | LINE 1 x LINE 2 | - | - | \$752.69 | \$752.69 |
| 4 | UTILIZATION FACTOR | ENGINEERING | - | - | 1.0000 | 1.0000 |
| 5 | TOTAL IN-PLACE INVESTMENT | LINE 3 x LINE 4 | - | - | \$752.69 | \$752.69 |
| 6 | LAND INVESTMENT FACTOR | WP 8.0, PG 1, LINE 22I | 0.0036 | - | - | 0.0036 |
| 7 | BUILDING INVESTMENT FACTOR | WP 8.0, PG 1, LINE 23I | - | 0.1817 | - | 0.1817 |
| 8 | LAND INVESTMENT | LINE 5E x LINE 6C | \$2.71 | - | - | \$2.71 |
| 9 | BUILDING INVESTMENT | LINE 5E x LINE 7D | - | \$136.76 | - | \$136.76 |
| 10 | TOTAL UNIT INVESTMENT | LINE 5E + LINE 8C + LINE 9D | \$2.71 | \$136.76 | \$752.69 | \$892.16 |
| 11 | WEIGHTED UNIT INVESTMENT | LINE 10 x WP 8.0, PG 1, LINE 26I | \$0.10 | \$5.17 | \$28.47 | \$33.74 |

PHYSICAL COLLOCATION
 Verizon - West Virginia
 FCC - 1

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

| <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
|----------------------------|---------------------------------|-------------|-------------|------------------|---------------------|
| <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>CKT EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 TOTAL UNIT INVESTMENT | WP 7.0, PG 2 LINE 10 | \$2.71 | \$136.76 | \$752.69 | \$892.16 |
| 2 DEPRECIATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.00 | \$3.21 | \$30.23 | \$33.45 |
| 3 COST OF MONEY | LINE 1 X WP 8.0 - ACF FACTOR | \$0.31 | \$11.28 | \$41.30 | \$52.89 |
| 4 INCOME TAX | LINE 1 X WP 8.0 - ACF FACTOR | \$0.16 | \$5.85 | \$21.42 | \$27.43 |
| 5 MAINTENANCE | LINE 1 X WP 8.0 - ACF FACTOR | \$0.08 | \$3.95 | \$50.01 | \$54.04 |
| 6 ADMINISTRATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.10 | \$5.13 | \$28.22 | \$33.45 |
| 7 OTHER TAX | LINE 1 X WP 8.0 - ACF FACTOR | \$0.03 | \$1.46 | \$8.07 | <u>\$9.56</u> |
| 8 ANNUAL DIRECT COST | SUM (LINE 2 THRU LINE 7) | \$0.67 | \$30.89 | \$179.25 | \$210.82 |
| 9 WEIGHTED UNIT INVESTMENT | LINE 8 x WP 8.0, PG 1, LINE 26I | \$0.03 | \$1.17 | \$6.78 | \$7.97 |

PHYSICAL COLLOCATION
Verizon - West Virginia
FCC NO. 1

DC POWER - LESS THAN OR EQUAL TO 60 AMPS

| LINE NO. | A ITEM | B SOURCE | C URBAN | D SUBURBAN | E RURAL |
|--|--|--------------------------|------------|---------------|------------|
| Microprocessor Plant (BUSS BAR) | | | | | |
| 1 | AMP | Engineering | 2,600 | 2,600 | 600 |
| 2 | Material | Engineering | \$23,879 | \$23,879 | \$18,349 |
| 3 | Unit Investment Per AMP | (L2 / L1) | \$9.18 | \$9.18 | \$30.58 |
| 4 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 5 | Statewide Unit Investment Per AMP | | \$13.26 | \$4.81 | \$5.83 |
| Rectifiers | | | | | |
| 6 | Quantity | Engineering | 6 | 6 | 7 |
| 7 | AMPS per unit | Engineering | 200 | 200 | 50 |
| 8 | Tot. AMPS | (L6 * L7) | 1,200 | 1,200 | 350 |
| 9 | Utilization | (L6-1) / L6) | 83.33% | 83.33% | 85.71% |
| 10 | Material | Engineering | \$42,046 | \$42,046 | \$15,900 |
| 11 | Total Investment | (L10 / L9) | \$50,455 | \$50,455 | \$18,550 |
| 12 | Unit Investment Per AMP | (L11 / L8) | \$42.05 | \$42.05 | \$53.00 |
| 13 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 14 | Statewide Unit Investment Per AMP | | \$44.13 | \$22.02 | \$10.10 |
| Batteries | | | | | |
| 15 | Strings | Engineering | 3 | 3 | 2 |
| 16 | AMPS per String | Engineering | 310 | 310 | 310 |
| 17 | Tot. AMPS | (L15 * L16) | 930 | 930 | 620 |
| 18 | Total Investment | Engineering | \$34,965 | \$34,965 | \$23,310 |
| 19 | Unit Investment Per AMP | (L18 / L17) | \$37.60 | \$37.60 | \$37.60 |
| 20 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 21 | Statewide Unit Investment Per AMP | | \$37.60 | \$19.69 | \$7.16 |
| Automatic Breaker | | | | | |
| 22 | AMP per Breaker | Engineering | 1,200 | 800 | 400 |
| 23 | Total Investment | Engineering | \$40,000 | \$35,000 | \$20,000 |
| 24 | Unit Investment Per AMP | (L23 / L22) | \$33.33 | \$43.75 | \$50.00 |
| 25 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 26 | Statewide Unit Investment Per AMP | | \$41.96 | \$22.92 | \$9.53 |
| Power Distribution Service Cabinet | | | | | |
| 27 | Amps | Engineering | 800 | 400 | 400 |
| 28 | Material | Engineering | \$7,788 | \$5,677 | \$3,467 |
| 29 | Unit Investment Per AMP | (L28 / L27) | \$9.74 | \$14.19 | \$8.67 |
| 30 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 31 | Statewide Unit Investment Per AMP | | \$11.87 | \$7.43 | \$1.65 |
| Emergency engine/turbine (auto start) | | | | | |
| 32 | AMP Capacity | Engineering | 1,736 | 1,111 | 434 |
| 33 | Utilization | Engineering | 70% | 70% | 70% |
| 34 | Utilized AMPS | (L32 * L33) | 1,215 | 778 | 304 |
| 35 | Emerg. Engine Invest. | Engineering | \$78,249 | \$53,871 | \$41,874 |
| 36 | Conduit/Emer Lights | Engineering | \$30,487 | \$23,332 | \$11,810 |
| 37 | Total Investment | (L35 + L36) | \$108,736 | \$77,203 | \$53,684 |
| 38 | Unit Investment Per AMP | (L37 / L34) | \$89.48 | \$99.27 | \$176.71 |
| 39 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 40 | Statewide Unit Investment Per AMP | | \$111.23 | \$52.00 | \$33.66 |
| Battery Distribution Fuse Bay | | | | | |
| 41 | AMP Capacity | Engineering | 800 | 800 | 800 |
| 42 | Material | Engineering | \$5,355 | \$5,355 | \$5,355 |
| 43 | Unit Investment Per AMP | (L42 / L41) | \$6.69 | \$6.69 | \$6.69 |
| 44 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 45 | Statewide Unit Investment Per AMP | | \$6.69 | \$3.51 | \$1.28 |
| 46 | Total Unit Investment - (Less than or Equal to 60 AMP's) - Sum Lines (5C+14C+21C+26C+31C+40C+45C) | | \$266.74 | | |

PHYSICAL COLLOCATION
Verizon - West Virginia
FCC - 1

DC POWER - GREATER THAN 60 AMPS

| <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
|-------------------------------------|----------------------------------|-------------|-------------|---------------------|---------------------|
| <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>SWITCH EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 TOTAL POWER PLANT UNIT INVESTMENT | WP 7.1, PG 3, LINE 10 | - | - | \$270.22 | \$270.22 |
| 2 EF&I FACTOR - FRC 377C | WP 8.0, PG 1, LINE 24I | - | - | 2.8218 | 2.8218 |
| 3 INSTALLED INVESTMENT (NRC) | LINE 1 x LINE 2 | - | - | \$762.52 | \$762.52 |
| 4 UTILIZATION FACTOR | ENGINEERING | - | - | 1.0000 | 1.0000 |
| 5 TOTAL IN-PLACE INVESTMENT | LINE 3 x LINE 4 | - | - | \$762.52 | \$762.52 |
| 6 LAND INVESTMENT FACTOR | WP 8.0, PG 1, LINE 22I | 0.0036 | - | - | 0.0036 |
| 7 BUILDING INVESTMENT FACTOR | WP 8.0, PG 1, LINE 23I | - | 0.1817 | - | 0.1817 |
| 8 LAND INVESTMENT | LINE 5E x LINE 6C | \$2.75 | - | - | \$2.75 |
| 9 BUILDING INVESTMENT | LINE 5E x LINE 7D | - | \$138.55 | - | \$138.55 |
| 10 TOTAL UNIT INVESTMENT | LINE 5E + LINE 8C + LINE 9D | \$2.75 | \$138.55 | \$762.52 | \$903.81 |
| 11 WEIGHTED UNIT INVESTMENT | LINE 10 x WP 8.0, PG 1, LINE 26I | \$0.10 | \$5.24 | \$28.84 | \$34.18 |

PHYSICAL COLLOCATION
Verizon - West Virginia
FCC - 1

DC POWER - GREATER THAN 60 AMPS

| <u>A</u> | <u>B</u> | <u>C</u> | <u>D</u> | <u>E</u> | <u>F</u> |
|----------------------------|---------------------------------|-------------|-------------|------------------|---------------------|
| <u>ITEM</u> | <u>SOURCE</u> | <u>LAND</u> | <u>BLDG</u> | <u>CKT EQPT.</u> | <u>TOTAL INVEST</u> |
| 1 TOTAL UNIT INVESTMENT | WP 7.1, PG 2 LINE 10 | \$2.75 | \$138.55 | \$762.52 | \$903.81 |
| 2 DEPRECIATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.00 | \$3.26 | \$30.63 | \$33.88 |
| 3 COST OF MONEY | LINE 1 X WP 8.0 - ACF FACTOR | \$0.31 | \$11.43 | \$41.84 | \$53.58 |
| 4 INCOME TAX | LINE 1 X WP 8.0 - ACF FACTOR | \$0.16 | \$5.93 | \$21.70 | \$27.79 |
| 5 MAINTENANCE | LINE 1 X WP 8.0 - ACF FACTOR | \$0.08 | \$4.00 | \$50.66 | \$54.74 |
| 6 ADMINISTRATION | LINE 1 X WP 8.0 - ACF FACTOR | \$0.10 | \$5.20 | \$28.59 | \$33.89 |
| 7 OTHER TAX | LINE 1 X WP 8.0 - ACF FACTOR | \$0.03 | \$1.48 | \$8.17 | <u>\$9.68</u> |
| 8 ANNUAL DIRECT COST | SUM (LINE 2 THRU LINE 7) | \$0.68 | \$31.30 | \$181.59 | \$213.57 |
| 9 WEIGHTED UNIT INVESTMENT | LINE 8 x WP 8.0, PG 1, LINE 26I | \$0.03 | \$1.18 | \$6.87 | \$8.08 |

PHYSICAL COLLOCATION
Verizon - West Virginia
FCC NO. 1

DC POWER - GREATER THAN 60 AMPS

| A | B | C | D | E | F |
|--|--|--------------------------|-----------------|----------|----------|
| LINE NO. | ITEM | SOURCE | URBAN | SUBURBAN | RURAL |
| Microprocessor Plant (BUSS BAR) | | | | | |
| 1 | AMP | Engineering | 2,600 | 2,600 | 600 |
| 2 | Material | Engineering | \$23,879 | \$23,879 | \$18,349 |
| 3 | Unit Investment Per AMP | (L2 / L1) | \$9.18 | \$9.18 | \$30.58 |
| 4 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 5 | Statewide Unit Investment Per AMP | \$13.26 | \$2.62 | \$4.81 | \$5.83 |
| Rectifiers | | | | | |
| 6 | Quantity | Engineering | 6 | 6 | 7 |
| 7 | AMPS per unit | Engineering | 200 | 200 | 50 |
| 8 | Tot. AMPS | (L6 * L7) | 1,200 | 1,200 | 350 |
| 9 | Utilization | (L6-1 / L6) | 83.33% | 83.33% | 85.71% |
| 10 | Material | Engineering | \$42,046 | \$42,046 | \$15,900 |
| 11 | Total Investment | (L10 / L9) | \$50,455 | \$50,455 | \$18,550 |
| 12 | Unit Investment Per AMP | (L11 / L8) | \$42.05 | \$42.05 | \$53.00 |
| 13 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 14 | Statewide Unit Investment Per AMP | \$44.13 | \$12.01 | \$22.02 | \$10.10 |
| Batteries | | | | | |
| 15 | Strings | Engineering | 3 | 3 | 2 |
| 16 | AMPS per String | Engineering | 310 | 310 | 310 |
| 17 | Tot. AMPS | (L15 * L16) | 930 | 930 | 620 |
| 18 | Total Investment | Engineering | \$34,965 | \$34,965 | \$23,310 |
| 19 | Unit Investment Per AMP | (L18 / L17) | \$37.60 | \$37.60 | \$37.60 |
| 20 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 21 | Statewide Unit Investment Per AMP | \$37.60 | \$10.74 | \$19.69 | \$7.16 |
| Automatic Breaker | | | | | |
| 22 | AMP per Breaker | Engineering | 1,200 | 800 | 400 |
| 23 | Total Investment | Engineering | \$40,000 | \$35,000 | \$20,000 |
| 24 | Unit Investment Per AMP | (L23 / L22) | \$33.33 | \$43.75 | \$50.00 |
| 25 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 26 | Statewide Unit Investment Per AMP | \$41.96 | \$9.52 | \$22.92 | \$9.53 |
| Power Distribution Service Cabinet | | | | | |
| 27 | Amps | Engineering | 800 | 400 | 400 |
| 28 | Material | Engineering | \$7,788 | \$5,677 | \$3,467 |
| 29 | Unit Investment Per AMP | (L28 / L27) | \$9.74 | \$14.19 | \$8.67 |
| 30 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 31 | Statewide Unit Investment Per AMP | \$11.87 | \$2.76 | \$7.43 | \$1.65 |
| Emergency engine/turbine (auto start) | | | | | |
| 32 | AMP Capacity | Engineering | 1,736 | 1,111 | 434 |
| 33 | Utilization | Engineering | 70% | 70% | 70% |
| 34 | Utilized AMPS | (L32 * L33) | 1,215 | 778 | 304 |
| 35 | Emerg. Engine Invest. | Engineering | \$78,249 | \$53,871 | \$41,874 |
| 36 | Conduit/Emer Lights | Engineering | \$30,487 | \$23,332 | \$11,810 |
| 37 | Total Investment | (L35 + L36) | \$108,736 | \$77,203 | \$53,684 |
| 38 | Unit Investment Per AMP | (L37 / L34) | \$89.48 | \$99.27 | \$176.71 |
| 39 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 40 | Statewide Unit Investment Per AMP | \$111.23 | \$25.56 | \$52.00 | \$33.66 |
| Power Plant Distribution Bay | | | | | |
| 41 | AMP Capacity | Engineering | 1,200 | 1,200 | 300 |
| 42 | Material | Engineering | \$10,388 | \$10,388 | \$4,993 |
| 43 | Unit Investment Per AMP | (L42 / L41) | \$8.66 | \$8.66 | \$16.64 |
| 44 | Statewide Weighting | WP 8.0, Col I, Lns 27-30 | 0.2857 | 0.5238 | 0.1905 |
| 45 | Statewide Unit Investment Per AMP | \$10.18 | \$2.47 | \$4.53 | \$3.17 |
| 46 | Total Unit Investment - (Greater than 60 AMPS) -Sum Lines | | \$270.22 | | |
| | (5C+14C+21C+26C+31C+40C + 45C) | | | | |

PHYSICAL COLLOCATION
VERIZON: DC, DE, MD, NJ, PA, VA & WV
FCC NO. 1

| | | | FACTORS | | | | | | |
|---|---|-----------------------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|-----------------|
| LINE NO | A ITEM | B SOURCE | C DC DATA | D DE DATA | E MD DATA | F NJ DATA | G PA DATA | H VA DATA | I WV DATA |
| ANNUAL COST FACTOR | | | | | | | | | |
| - Digital Switch - Power (2212.00) | | | | | | | | | |
| 1 | DEPRECIATION | SERVICE COSTS | 0.0398 | 0.0398 | 0.0401 | 0.0398 | 0.0402 | 0.0397 | 0.0402 |
| 2 | COST OF MONEY | SERVICE COSTS | 0.0549 | 0.0552 | 0.0556 | 0.0551 | 0.0545 | 0.0562 | 0.0549 |
| 3 | INCOME TAX | SERVICE COSTS | 0.0290 | 0.0284 | 0.0273 | 0.0286 | 0.0290 | 0.0269 | 0.0285 |
| 4 | MAINTENANCE | SERVICE COSTS | 0.0654 | 0.0712 | 0.0501 | 0.0601 | 0.0573 | 0.0536 | 0.0664 |
| 5 | ADMINISTRATION | SERVICE COSTS | 0.0623 | 0.0291 | 0.0429 | 0.0432 | 0.0399 | 0.0389 | 0.0375 |
| 6 | OTHER TAX | SERVICE COSTS | 0.0031 | 0.0062 | 0.0175 | 0.0124 | 0.0020 | 0.0081 | 0.0107 |
| 7 | TOTAL- Digital Switch ACF | SUM (LINES 1 THRU LINE 6) | 0.2545 | 0.2298 | 0.2335 | 0.2392 | 0.2230 | 0.2233 | 0.2381 |
| - Land | | | | | | | | | |
| 8 | DEPRECIATION | SERVICE COSTS | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 |
| 9 | COST OF MONEY | SERVICE COSTS | 0.1131 | 0.1129 | 0.1128 | 0.1131 | 0.1130 | 0.1128 | 0.1129 |
| 10 | INCOME TAX | SERVICE COSTS | 0.0598 | 0.0581 | 0.0554 | 0.0587 | 0.0602 | 0.0539 | 0.0586 |
| 11 | MAINTENANCE | SERVICE COSTS | 0.0091 | 0.0267 | 0.0257 | 0.0258 | 0.0284 | 0.0344 | 0.0289 |
| 12 | ADMINISTRATION | SERVICE COSTS | 0.0623 | 0.0291 | 0.0429 | 0.0432 | 0.0399 | 0.0389 | 0.0375 |
| 13 | OTHER TAX | SERVICE COSTS | 0.0277 | 0.0192 | 0.0175 | 0.0124 | 0.0471 | 0.0081 | 0.0107 |
| 14 | TOTAL- Land ACF | SUM (LINES 8 THRU LINE 13) | 0.2720 | 0.2460 | 0.2543 | 0.2532 | 0.2886 | 0.2481 | 0.2486 |
| - Building | | | | | | | | | |
| 15 | DEPRECIATION | SERVICE COSTS | 0.0165 | 0.0214 | 0.0220 | 0.0217 | 0.0205 | 0.0218 | 0.0235 |
| 16 | COST OF MONEY | SERVICE COSTS | 0.0860 | 0.0834 | 0.0834 | 0.0833 | 0.0836 | 0.0834 | 0.0825 |
| 17 | INCOME TAX | SERVICE COSTS | 0.0454 | 0.0429 | 0.0410 | 0.0432 | 0.0445 | 0.0399 | 0.0428 |
| 18 | MAINTENANCE | SERVICE COSTS | 0.0091 | 0.0267 | 0.0257 | 0.0258 | 0.0284 | 0.0344 | 0.0289 |
| 19 | ADMINISTRATION | SERVICE COSTS | 0.0623 | 0.0291 | 0.0429 | 0.0432 | 0.0399 | 0.0389 | 0.0375 |
| 20 | OTHER TAX | SERVICE COSTS | 0.0277 | 0.0192 | 0.0175 | 0.0124 | 0.0471 | 0.0081 | 0.0107 |
| 21 | TOTAL- Building ACF | SUM (LINES 15 THRU LINE 20) | 0.2470 | 0.2227 | 0.2325 | 0.2296 | 0.2640 | 0.2265 | 0.2259 |
| OTHER FACTORS: | | | DC | DE | MD | NJ | PA | VA | WV |
| 22 | LAND INVESTMENT FACTOR | SERVICE COSTS X LINE 32 | 0.0170 | 0.0063 | 0.0056 | 0.0050 | 0.0055 | 0.0037 | 0.0036 |
| 23 | BUILDING INVESTMENT FACTOR | SERVICE COSTS X LINE 32 | 0.3729 | 0.1548 | 0.1397 | 0.1290 | 0.1722 | 0.1569 | 0.1817 |
| 24 | POWER INSTALL & ENGR FACTOR FRC (377C) | SERVICE COSTS | 2.8218 | 2.8218 | 2.8218 | 2.8218 | 2.8218 | 2.8218 | 2.8218 |
| 25 | OVERHEAD LOADING FACTOR | REGULATORY | 1.34 | 1.34 | 1.34 | 1.34 | 1.34 | 1.34 | 1.34 |
| 26 | BA-SOUTH NAL WEIGHTING FACTOR | SERVICE COSTS | 0.03644 | 0.02566 | 0.16245 | 0.29196 | 0.29019 | 0.15549 | 0.03782 |
| 27 | METRO POWER ZONE WEIGHTING | ENGINEERING | 0.5286 | 0.3043 | 0.1546 | 0.2770 | 0.1703 | 0.1472 | 0.0000 |
| 28 | URBAN POWER ZONE WEIGHTING | ENGINEERING | 0.4537 | 0.3652 | 0.5717 | 0.5763 | 0.5951 | 0.5137 | 0.2857 |
| 29 | SUBURBAN POWER ZONE WEIGHTING | ENGINEERING | 0.0176 | 0.2435 | 0.1741 | 0.1329 | 0.1919 | 0.3228 | 0.5238 |
| 30 | RURAL POWER ZONE WEIGHTING | ENGINEERING | 0.0000 | 0.0870 | 0.0996 | 0.0138 | 0.0427 | 0.0162 | 0.1905 |
| 31 | TOTAL WEIGHTING | | 0.9999 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 0.9999 | 1.0000 |