

**PHYSICAL COLLOCATION**  
**Verizon - New Jersey**  
**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>E</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 4.0, PG 3, LINE 10	-	-	\$232.28	\$232.28
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24F	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$646.96	\$646.96
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$646.96	\$646.96
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22F	0.0106	-	-	0.0106
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23F	-	0.1687	-	0.1687
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$6.85	-	-	\$6.85
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$109.16	-	\$109.16
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$6.85	\$109.16	\$646.96	\$762.97
11 WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26F	\$2.00	\$31.87	\$188.89	\$222.76

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<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 4.0, PG 2 LINE 10	\$6.85	\$109.16	\$646.96	\$762.97
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.37	\$32.20	\$34.57
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.77	\$9.09	\$34.51	\$44.38
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.40	\$4.72	\$17.90	\$23.02
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.18	\$2.82	\$38.87	\$41.86
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.30	\$4.72	\$27.93	\$32.94
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.08</u>	<u>\$1.35</u>	<u>\$8.02</u>	<u>\$9.46</u>
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.73	\$25.06	\$159.43	\$186.22
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26F	\$0.51	\$7.32	\$46.55	\$54.37

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**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	
<b>Microprocessor Plant (BUSS BAR)</b>							
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
5	Statewide Unit Investment Per AMP		<b>\$8.62</b>	\$1.68	\$4.50	\$1.58	\$0.85
<b>Rectifiers</b>							
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
14	Statewide Unit Investment Per AMP		<b>\$37.92</b>	\$8.59	\$20.61	\$7.25	\$1.47
<b>Batteries</b>							
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
21	Statewide Unit Investment Per AMP		<b>\$38.10</b>	\$12.15	\$18.43	\$6.48	\$1.05
<b>Automatic Breaker</b>							
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
26	Statewide Unit Investment Per AMP		<b>\$34.95</b>	\$9.68	\$16.34	\$7.54	\$1.39
<b>Power Distribution Service Cabinet</b>							
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
31	Statewide Unit Investment Per AMP		<b>\$10.16</b>	\$2.71	\$4.77	\$2.45	\$0.24
<b>Emergency engine/turbine (auto start)</b>							
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
40	Statewide Unit Investment Per AMP		<b>\$95.84</b>	\$29.96	\$43.85	\$17.11	\$4.91
<b>Battery Distribution Fuse Bay</b>							
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
45	Statewide Unit Investment Per AMP		<b>\$6.69</b>	\$2.07	\$3.28	\$1.15	\$0.19
46	<b>Total Unit Investment - (Less than or Equal to 60 AMP's) - Sum Lines (5C+14C+21C+26C+31C+40C+45C)</b>		<b>\$232.28</b>				

**PHYSICAL COLLOCATION**  
**Verizon - New Jersey**  
**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 4.0, PG 3, LINE 10	-	-	\$233.31	\$233.31
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24F	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$649.81	\$649.81
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$649.81	\$649.81
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22F	0.0106	-	-	0.0106
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23F	-	0.1687	-	0.1687
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$6.88	-	-	\$6.88
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$109.64	-	\$109.64
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$6.88	\$109.64	\$649.81	\$766.33
11 WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26F	\$2.01	\$32.01	\$189.72	\$223.74

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**DC POWER - GREATER THAN 60 AMPS**

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<u>ITEM</u>	<u>SOURCE</u>	<u>LAND</u>	<u>BLOG</u>	<u>CKT EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL UNIT INVESTMENT	WP 4.0, PG 2 LINE 10	\$6.88	\$109.64	\$649.81	\$766.33
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.38	\$32.34	\$34.72
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.78	\$9.13	\$34.66	\$44.57
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.40	\$4.74	\$17.98	\$23.12
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.18	\$2.83	\$39.04	\$42.04
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.30	\$4.74	\$28.05	\$33.09
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.09</u>	<u>\$1.36</u>	<u>\$8.06</u>	<u>\$9.50</u>
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.74	\$25.17	\$160.13	\$187.04
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26F	\$0.51	\$7.35	\$46.75	\$54.61

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**DC POWER - GREATER THAN 60 AMPS**

LINE NO.	A ITEM	B SOURCE	C METRO	D URBAN	E SUBURBAN	F RURAL	
	<b>Microprocessor Plant (BUSS BAR)</b>						
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
5	Statewide Unit Investment Per AMP		\$8.62	\$1.68	\$4.50	\$1.58	\$0.85
	<b>Rectifiers</b>						
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
14	Statewide Unit Investment Per AMP		\$37.92	\$8.59	\$20.61	\$7.25	\$1.47
	<b>Batteries</b>						
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
21	Statewide Unit Investment Per AMP		\$38.10	\$12.15	\$18.43	\$6.48	\$1.05
	<b>Automatic Breaker</b>						
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
26	Statewide Unit Investment Per AMP		\$34.95	\$9.68	\$16.34	\$7.54	\$1.39
	<b>Power Distribution Service Cabinet</b>						
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
31	Statewide Unit Investment Per AMP		\$10.16	\$2.71	\$4.77	\$2.45	\$0.24
	<b>Emergency engine/turbine (auto start)</b>						
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
40	Statewide Unit Investment Per AMP		\$95.84	\$29.96	\$43.85	\$17.11	\$4.91
	<b>Power Plant Distribution Bay</b>						
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 F, Lns 27-30	0.3097	0.4901	0.1724	0.0278	
45	Statewide Unit Investment Per AMP		\$7.72	\$1.52	\$4.24	\$1.49	\$0.46
46	Total Unit Investment - (Greater than 60 AMPs) - Sum Lines		\$233.31				
	(5C+14C+21C+26C+31C+40C + 45C)						

**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	-	-	\$248.83	\$248.83
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24G	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$693.05	\$693.05
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$693.05	\$693.05
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22G	0.0081	-	-	0.0081
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23G	-	0.1757	-	0.1757
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$5.58	-	-	\$5.58
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$121.78	-	\$121.78
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.58	\$121.78	\$693.05	\$820.41
11 WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26G	\$1.62	\$35.34	\$201.12	\$238.08

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**Verizon - Pennsylvania**  
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**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	\$5.58	\$121.78	\$693.05	\$820.41
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.50	\$34.81	\$37.30
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.63	\$10.18	\$36.53	\$47.34
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.34	\$5.42	\$19.46	\$25.21
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.16	\$3.46	\$39.75	\$43.36
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.22	\$4.86	\$27.65	\$32.73
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.26</u>	<u>\$5.74</u>	<u>\$1.39</u>	<u>\$7.39</u>
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.61	\$32.15	\$159.57	\$193.33
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 6.0, PG 1, LINE 26G	\$0.47	\$9.33	\$46.31	\$56.10

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**DC POWER - LESS THAN OR EQUAL TO 60 AMPS**

LINE NO.	A ITEM	B SOURCE	C METRO	D URBAN	E SUBURBAN	F RURAL
<b>Microprocessor Plant (BUSS BAR)</b>						
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	0.2056	0.4539	0.2058	0.1347
5	Statewide Unit Investment Per AMP		\$11.29	\$4.17	\$1.89	\$4.12
<b>Rectifiers</b>						
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	0.2056	0.4539	0.2058	0.1347
14	Statewide Unit Investment Per AMP		\$40.58	\$19.08	\$8.65	\$7.14
<b>Batteries</b>						
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	0.2056	0.4539	0.2058	0.1347
21	Statewide Unit Investment Per AMP		\$37.93	\$17.07	\$7.74	\$5.06
<b>Automatic Breaker</b>						
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	0.2056	0.4539	0.2058	0.1347
26	Statewide Unit Investment Per AMP		\$37.29	\$15.13	\$9.00	\$6.74
<b>Power Distribution Service Cabinet</b>						
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	0.2056	0.4539	0.2058	0.1347
31	Statewide Unit Investment Per AMP		\$10.30	\$4.42	\$2.92	\$1.17
<b>Emergency engine/turbine (auto start)</b>						
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	0.2056	0.4539	0.2058	0.1347
40	Statewide Unit Investment Per AMP		\$104.74	\$40.61	\$20.43	\$23.80
<b>Battery Distribution Fuse Bay</b>						
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	0.2056	0.4539	0.2058	0.1347
45	Statewide Unit Investment Per AMP		\$6.69	\$3.04	\$1.38	\$0.90
46	Total Unit Investment - (Less than or Equal to 60 AMP's) - Sum Lines (5C+14C+21C+26C+31C+40C+45C)		\$248.83			

**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	-	-	\$251.10	\$251.10
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24G	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$699.37	\$699.37
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$699.37	\$699.37
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22G	0.0081	-	-	0.0081
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23G	-	0.1757	-	0.1757
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$5.63	-	-	\$5.63
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$122.89	-	\$122.89
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$5.63	\$122.89	\$699.37	\$827.89
11 WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26G	\$1.64	\$35.66	\$202.95	\$240.24

**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	\$5.63	\$122.89	\$699.37	\$827.89
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$2.52	\$35.12	\$37.64
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.64	\$10.27	\$36.86	\$47.77
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.34	\$5.47	\$19.64	\$25.44
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.16	\$3.49	\$40.11	\$43.76
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.22	\$4.90	\$27.90	\$33.03
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	<u>\$0.27</u>	<u>\$5.79</u>	<u>\$1.40</u>	<u>\$7.45</u>
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.63	\$32.44	\$161.03	\$195.10
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26G	\$0.47	\$9.41	\$46.73	\$56.61

**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
<b>Microprocessor Plant (BUSS BAR)</b>						
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	0.2056	0.4539	0.2058	0.1347
5	Statewide Unit Investment Per AMP		\$11.29	\$4.17	\$1.89	\$4.12
<b>Rectifiers</b>						
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	0.2056	0.4539	0.2058	0.1347
14	Statewide Unit Investment Per AMP		\$40.58	\$19.08	\$8.65	\$7.14
<b>Batteries</b>						
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	0.2056	0.4539	0.2058	0.1347
21	Statewide Unit Investment Per AMP		\$37.93	\$17.07	\$7.74	\$5.06
<b>Automatic Breaker</b>						
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	0.2056	0.4539	0.2058	0.1347
26	Statewide Unit Investment Per AMP		\$37.29	\$15.13	\$9.00	\$6.74
<b>Power Distribution Service Cabinet</b>						
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	0.2056	0.4539	0.2058	0.1347
31	Statewide Unit Investment Per AMP		\$10.30	\$4.42	\$2.92	\$1.17
<b>Emergency engine/turbine (auto start)</b>						
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	0.2056	0.4539	0.2058	0.1347
40	Statewide Unit Investment Per AMP		\$104.74	\$40.61	\$20.43	\$23.80
<b>Power Plant Distribution Bay</b>						
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	0.2056	0.4539	0.2058	0.1347
45	Statewide Unit Investment Per AMP		\$8.96	\$3.93	\$1.78	\$2.24
46	<b>Total Unit Investment - (Greater than 60 AMPS) -Sum Lines</b>		\$251.10			
	(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	-	-	\$249.21	\$249.21
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24H	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$694.10	\$694.10
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$694.10	\$694.10
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22H	0.0071	-	-	0.0071
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23H	-	0.1282	-	0.1282
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$4.94	-	-	\$4.94
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$88.96	-	\$88.96
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$4.94	\$88.96	\$694.10	\$788.00
11 WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26H	\$0.77	\$13.83	\$107.92	\$122.53

**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	\$4.94	\$88.96	\$694.10	\$788.00
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$1.94	\$34.45	\$36.39
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.56	\$7.42	\$37.66	\$45.64
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.27	\$3.55	\$18.01	\$21.83
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.17	\$3.06	\$37.17	\$40.40
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.19	\$3.46	\$27.02	\$30.67
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.04	\$0.72	\$5.64	\$6.40
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.23	\$20.15	\$159.97	\$181.34
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26H	\$0.19	\$3.13	\$24.87	\$28.20

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
<b>Microprocessor Plant (BUSS BAR)</b>						
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	0.1585	0.4362	0.2869	0.1184
5	Statewide Unit Investment Per AMP		\$11.12	\$0.86	\$4.01	\$2.63
<b>Rectifiers</b>						
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	0.1585	0.4362	0.2869	0.1184
14	Statewide Unit Investment Per AMP		\$41.08	\$4.40	\$18.34	\$12.06
<b>Batteries</b>						
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	0.1585	0.4362	0.2869	0.1184
21	Statewide Unit Investment Per AMP		\$37.85	\$6.22	\$16.40	\$10.79
<b>Automatic Breaker</b>						
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	0.1585	0.4362	0.2869	0.1184
26	Statewide Unit Investment Per AMP		\$37.97	\$4.95	\$14.54	\$12.55
<b>Power Distribution Service Cabinet</b>						
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	0.1585	0.4362	0.2869	0.1184
31	Statewide Unit Investment Per AMP		\$10.73	\$1.38	\$4.25	\$4.07
<b>Emergency engine/turbine (auto start)</b>						
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	0.1585	0.4362	0.2869	0.1184
40	Statewide Unit Investment Per AMP		\$103.77	\$15.33	\$39.03	\$28.48
<b>Battery Distribution Fuse Bay</b>						
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	0.1585	0.4362	0.2869	0.1184
45	Statewide Unit Investment Per AMP		\$6.69	\$1.06	\$2.92	\$1.92
46	Total Unit Investment - (Less than or Equal to 60 AMP's) - Sum Lines (5C+14C+21C+26C+31C+40C+45C)		\$249.21			

**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	-	-	\$251.52	\$251.52
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24H	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$700.54	\$700.54
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$700.54	\$700.54
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22H	0.0071	-	-	0.0071
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23H	-	0.1282	-	0.1282
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$4.99	-	-	\$4.99
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$89.79	-	\$89.79
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$4.99	\$89.79	\$700.54	\$795.31
11 WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26G	\$0.78	\$13.96	\$108.93	\$123.66

**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>CKT EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL UNIT INVESTMENT	WP 6.1, PG 2 LINE 10	\$4.99	\$89.79	\$700.54	\$795.31
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$1.96	\$34.77	\$36.73
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.56	\$7.49	\$38.01	\$46.06
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.27	\$3.58	\$18.18	\$22.03
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.17	\$3.09	\$37.52	\$40.78
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.19	\$3.49	\$27.27	\$30.96
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.04	\$0.73	\$5.69	<u>\$6.46</u>
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$1.24	\$20.34	\$161.45	\$183.03
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26H	\$0.19	\$3.16	\$25.10	\$28.46

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
<u>Microprocessor Plant (BUSS BAR)</u>						
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	0.1585	0.4362	0.2869	0.1184
5	Statewide Unit Investment Per AMP		\$11.12	\$4.01	\$2.63	\$3.62
<u>Rectifiers</u>						
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	0.1585	0.4362	0.2869	0.1184
14	Statewide Unit Investment Per AMP		\$41.08	\$18.34	\$12.06	\$6.28
<u>Batteries</u>						
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	0.1585	0.4362	0.2869	0.1184
21	Statewide Unit Investment Per AMP		\$37.85	\$16.40	\$10.79	\$4.45
<u>Automatic Breaker</u>						
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	0.1585	0.4362	0.2869	0.1184
26	Statewide Unit Investment Per AMP		\$37.97	\$4.95	\$14.54	\$5.92
<u>Power Distribution Service Cabinet</u>						
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	0.1585	0.4362	0.2869	0.1184
31	Statewide Unit Investment Per AMP		\$10.73	\$1.38	\$4.07	\$1.03
<u>Emergency engine/turbine (auto start)</u>						
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	0.1585	0.4362	0.2869	0.1184
40	Statewide Unit Investment Per AMP		\$103.77	\$15.33	\$39.03	\$20.92
<u>Power Plant Distribution Bay</u>						
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	0.1585	0.4362	0.2869	0.1184
45	Statewide Unit Investment Per AMP		\$9.01	\$3.78	\$2.48	\$1.97
46	Total Unit Investment - (Greater than 60 AMPS) -Sum Lines (5C+14C+21C+26C+31C+40C + 45C)		\$251.52			

**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	-	-	\$304.02	\$304.02
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24I	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$846.76	\$846.76
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$846.76	\$846.76
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22I	0.0103	-	-	0.0103
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23I	-	0.2190	-	0.2190
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$8.68	-	-	\$8.68
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$185.41	-	\$185.41
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$8.68	\$185.41	\$846.76	\$1,040.86
11 WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26I	\$0.33	\$7.01	\$32.02	\$39.37

**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	\$8.68	\$185.41	\$846.76	\$1,040.86
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$4.36	\$42.51	\$46.87
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$0.98	\$15.30	\$44.91	\$61.19
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.51	\$7.94	\$23.30	\$31.74
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.25	\$5.36	\$56.26	\$61.87
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.33	\$6.95	\$31.75	\$39.03
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.09	\$1.98	\$9.07	<u>\$11.15</u>
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$2.16	\$41.88	\$207.81	\$251.85
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26I	\$0.08	\$1.58	\$7.86	\$9.53

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
<b>Microprocessor Plant (BUSS BAR)</b>					
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	0.2135	0.2751	0.5115
5	Statewide Unit Investment Per AMP	<b>\$20.13</b>	\$1.96	\$2.53	\$15.64
<b>Rectifiers</b>					
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	0.2135	0.2751	0.5115
14	Statewide Unit Investment Per AMP	<b>\$47.65</b>	\$8.98	\$11.57	\$27.11
<b>Batteries</b>					
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	0.2135	0.2751	0.5115
21	Statewide Unit Investment Per AMP	<b>\$37.60</b>	\$8.03	\$10.34	\$19.23
<b>Automatic Breaker</b>					
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	0.2135	0.2751	0.5115
26	Statewide Unit Investment Per AMP	<b>\$44.73</b>	\$7.12	\$12.04	\$25.58
<b>Power Distribution Service Cabinet</b>					
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	0.2135	0.2751	0.5115
31	Statewide Unit Investment Per AMP	<b>\$10.42</b>	\$2.08	\$3.90	\$4.43
<b>Emergency engine/turbine (auto start)</b>					
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	0.2135	0.2751	0.5115
40	Statewide Unit Investment Per AMP	<b>\$136.80</b>	\$19.10	\$27.31	\$90.39
<b>Battery Distribution Fuse Bay</b>					
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	0.2135	0.2751	0.5115
45	Statewide Unit Investment Per AMP	<b>\$6.69</b>	\$1.43	\$1.84	\$3.42
46	<b>Total Unit Investment - (Less than or Equal to 60 AMP's) - Sum Lines (5C+14C+21C+26C+31C+40C+45C)</b>		<b>\$304.02</b>		

**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	-	-	\$310.07	\$310.07
2 EF&I FACTOR - FRC 377C	WP 8.0, PG 1, LINE 24I	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT (NRC)	LINE 1 x LINE 2	-	-	\$863.61	\$863.61
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$863.61	\$863.61
6 LAND INVESTMENT FACTOR	WP 8.0, PG 1, LINE 22I	0.0103	-	-	0.0103
7 BUILDING INVESTMENT FACTOR	WP 8.0, PG 1, LINE 23I	-	0.2190	-	0.2190
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$8.86	-	-	\$8.86
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$189.10	-	\$189.10
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$8.86	\$189.10	\$863.61	\$1,061.56
11 WEIGHTED UNIT INVESTMENT	LINE 10 x WP 8.0, PG 1, LINE 26I	\$0.33	\$7.15	\$32.66	\$40.15

**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	\$8.86	\$189.10	\$863.61	\$1,061.56
2 DEPRECIATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.00	\$4.44	\$43.36	\$47.80
3 COST OF MONEY	LINE 1 X WP 8.0 - ACF FACTOR	\$1.00	\$15.60	\$45.81	\$62.41
4 INCOME TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.52	\$8.09	\$23.76	\$32.37
5 MAINTENANCE	LINE 1 X WP 8.0 - ACF FACTOR	\$0.26	\$5.47	\$57.38	\$63.10
6 ADMINISTRATION	LINE 1 X WP 8.0 - ACF FACTOR	\$0.33	\$7.09	\$32.38	\$39.81
7 OTHER TAX	LINE 1 X WP 8.0 - ACF FACTOR	\$0.09	\$2.02	\$9.25	<u>\$11.37</u>
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$2.20	\$42.72	\$211.94	\$256.86
9 WEIGHTED UNIT INVESTMENT	LINE 8 x WP 8.0, PG 1, LINE 26I	\$0.08	\$1.62	\$8.02	\$9.71

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
<b>Microprocessor Plant (BUSS BAR)</b>					
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	0.2135	0.2751	0.5115
5	Statewide Unit Investment Per AMP		\$20.13	\$2.53	\$15.64
<b>Rectifiers</b>					
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	0.2135	0.2751	0.5115
14	Statewide Unit Investment Per AMP		\$47.65	\$8.98	\$11.57
<b>Batteries</b>					
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	0.2135	0.2751	0.5115
21	Statewide Unit Investment Per AMP		\$37.60	\$8.03	\$10.34
<b>Automatic Breaker</b>					
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	0.2135	0.2751	0.5115
26	Statewide Unit Investment Per AMP		\$44.73	\$7.12	\$12.04
<b>Power Distribution Service Cabinet</b>					
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	0.2135	0.2751	0.5115
31	Statewide Unit Investment Per AMP		\$10.42	\$2.08	\$3.90
<b>Emergency engine/turbine (auto start)</b>					
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	0.2135	0.2751	0.5115
40	Statewide Unit Investment Per AMP		\$136.80	\$19.10	\$27.31
<b>Power Plant Distribution Bay</b>					
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	0.2135	0.2751	0.5115
45	Statewide Unit Investment Per AMP		\$12.74	\$1.85	\$2.38
<b>Total Unit Investment - (Greater than 60 AMPS) -Sum Lines</b>					
46			\$310.07		
(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
<b>ANNUAL COST FACTOR</b>									
<b>- Digital Switch - Power (2212.00)</b>									
1	DEPRECIATION	SERVICE COSTS	0.0498	0.0497	0.0502	0.0498	0.0502	0.0496	0.0502
2	COST OF MONEY	SERVICE COSTS	0.0531	0.0534	0.0537	0.0533	0.0527	0.0543	0.0530
3	INCOME TAX	SERVICE COSTS	0.0281	0.0275	0.0264	0.0277	0.0281	0.0259	0.0275
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	<b>TOTAL- Digital Switch ACF</b>	SUM (LINES 1 THRU LINE 6)	<b>0.2617</b>	<b>0.2370</b>	<b>0.2408</b>	<b>0.2464</b>	<b>0.2302</b>	<b>0.2305</b>	<b>0.2454</b>
<b>- Land</b>									
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	<b>TOTAL- Land ACF</b>	SUM (LINES 8 THRU LINE 13)	<b>0.2720</b>	<b>0.2460</b>	<b>0.2543</b>	<b>0.2532</b>	<b>0.2886</b>	<b>0.2481</b>	<b>0.2486</b>
<b>- Building</b>									
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	<b>TOTAL- Building ACF</b>	SUM (LINES 15 THRU LINE 20)	<b>0.2470</b>	<b>0.2227</b>	<b>0.2325</b>	<b>0.2296</b>	<b>0.2640</b>	<b>0.2265</b>	<b>0.2259</b>
<b>OTHER FACTORS:</b>			DC	DE	MD	NJ	PA	VA	WV
22	LAND INVESTMENT FACTOR	SERVICE COSTS	0.009166	0.009389	0.007799	0.010591	0.008057	0.007117	0.010255
23	BUILDING INVESTMENT FACTOR	SERVICE COSTS	0.152289	0.199439	0.146989	0.168726	0.175710	0.128173	0.218968
24	POWER INSTALL & ENGR FACTOR FRC (377C)	SERVICE COSTS	2.7852	2.7852	2.7852	2.7852	2.7852	2.7852	2.7852
25	OVERHEAD LOADING FACTOR	REGULATORY	1.23	1.23	1.23	1.23	1.23	1.23	1.23
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	0.5982	0.3027	0.1763	0.3097	0.2056	0.1585	0.0000
28	URBAN POWER ZONE WEIGHTING	ENGINEERING	0.3750	0.3008	0.5162	0.4901	0.4539	0.4362	0.2135
29	SUBURBAN POWER ZONE WEIGHTIN	ENGINEERING	0.0268	0.2759	0.1698	0.1724	0.2058	0.2869	0.2751
30	RURAL POWER ZONE WEIGHTING	ENGINEERING	0.0000	0.1207	0.1377	0.0278	0.1347	0.1184	0.5115
31	TOTAL WEIGHTING		1.0000	1.0001	1.0000	1.0000	1.0000	1.0000	1.0001