

PHYSICAL COLLOCATION
Bell Atlantic - New York
FCC - 11

DC POWER - COST SUMMARY

<u>LINE NO.</u>	<u>A</u> <u>ITEM</u>	<u>B</u> <u>SOURCE</u>	<u>C</u> <u>MONTHLY</u> <u>RECURRING</u>
	<u>DC POWER PER AMP</u>		
1	LESS THAN OR EQUAL TO 60 AMPS	WP 1.0, PG 2, LN 11F	\$25.34
2	GREATER THAN 60 AMPS	WP 1.1, PG 2, LN 11F	\$25.24

PHYSICAL COLLOCATION
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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>SWITCH EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL DC POWER PLANT UNIT INVESTMENT	WP 2.0, LINE 8	-	-	\$262.90	\$262.90
2 EF&I FACTOR - FRC 377C	WP 4.0, LINE 24	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT	LINE 1 x LINE 2	-	-	\$732.24	\$732.24
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$732.24	\$732.24
6 LAND INVESTMENT FACTOR	WP 4.0, LINE 22	0.0000	-	-	0.0000
7 BUILDING INVESTMENT FACTOR	WP 4.0, LINE 23	-	0.2140	-	0.2140
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$0.00	-	-	\$0.00
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$156.70	-	\$156.70
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$0.00	\$156.70	\$732.24	\$888.94

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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>SWITCH EQPT.</u>	<u>TOTAL INVEST</u>
1 TOTAL UNIT INVESTMENT	WP 1.0, LINE 10	\$0.00	\$156.70	\$732.24	\$888.94
2 DEPRECIATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$3.51	\$46.57	\$50.08
3 COST OF CAPITAL	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$13.35	\$40.50	\$53.85
4 INCOME TAX	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$5.39	\$16.41	\$21.80
5 OTHER TAXES	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.97	\$1.54	\$6.51
6 MAINTENANCE	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.22	\$61.58	\$65.80
7 ADMINISTRATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$5.70	\$26.65	\$32.36
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$0.00	\$37.14	\$193.25	\$230.39
9 MONTHLY COST	LINE 8 / 12	\$0.00	\$3.09	\$16.10	\$19.20
10 OVERHEAD LOADING FACTOR	WP 4.0, PG 1, LINE 25	1.3200	1.3200	1.3200	1.3200
11 MONTHLY RATE	LINE 9 x LINE 10	\$0.00	\$4.09	\$21.26	\$25.34
12 DIRECT COST TO RATE	LINE 9 / LINE 11	0.0000	0.7576	0.7576	0.7576

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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 DC POWER PLANT UNIT INVESTMENT	WP 2.1, LINE 8	-	-	\$261.85	\$261.85
2 EF&I FACTOR - FRC 377C	WP 4.0, LINE 24	-	-	2.7852	2.7852
3 INSTALLED INVESTMENT	LINE 1 x LINE 2	-	-	\$729.32	\$729.32
4 UTILIZATION FACTOR	ENGINEERING	-	-	1.0000	1.0000
5 TOTAL IN-PLACE INVESTMENT	LINE 3 x LINE 4	-	-	\$729.32	\$729.32
6 LAND INVESTMENT FACTOR	WP 4.0, LINE 22	0.0000	-	-	0.0000
7 BUILDING INVESTMENT FACTOR	WP 4.0, LINE 23	-	0.2140	-	0.2140
8 LAND INVESTMENT	LINE 5E x LINE 6C	\$0.00	-	-	\$0.00
9 BUILDING INVESTMENT	LINE 5E x LINE 7D	-	\$156.07	-	\$156.07
10 TOTAL UNIT INVESTMENT	LINE 5E + LINE 8C + LINE 9D	\$0.00	\$156.07	\$729.32	\$885.39

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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 UNIT INVESTMENT	WP 1.1, LINE 10	\$0.00	\$156.07	\$729.32	\$885.39
2 DEPRECIATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$3.50	\$46.38	\$49.88
3 COST OF CAPITAL	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$13.30	\$40.34	\$53.64
4 INCOME TAX	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$5.37	\$16.34	\$21.71
5 OTHER TAXES	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.95	\$1.53	\$6.48
6 MAINTENANCE	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$4.20	\$61.34	\$65.53
7 ADMINISTRATION	LINE 1 X WP 4.0 - ACF FACTOR	\$0.00	\$5.68	\$26.55	\$32.23
8 ANNUAL DIRECT COST	SUM (LINE 2 THRU LINE 7)	\$0.00	\$36.99	\$192.48	\$229.47
9 MONTHLY COST	LINE 8 / 12	\$0.00	\$3.08	\$16.04	\$19.12
10 OVERHEAD LOADING FACTOR	WP 4.0, PG 1, LINE 25	1.3200	1.3200	1.3200	1.3200
11 MONTHLY RATE	LINE 9 x LINE 10	\$0.00	\$4.07	\$21.17	\$25.24
12 DIRECT COST TO RATE	LINE 9 / LINE 11	0.0000	0.7576	0.7576	0.7576

PHYSICAL COLLOCATION
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DC POWER COST DEVELOPMENT - LESS THAN OR EQUAL TO 60 AMPS

	(A)	(B)	(C)
<u>LINE NO.</u>	<u>ITEM</u>	<u>SOURCE</u>	<u>DATA</u>
1	MICROPROCESSOR PLANT (BUSS BAR)	WP 3.0, LINE 5C	\$6.28
2	RECTIFIERS	WP 3.0, LINE 14C	\$34.89
3	BATTERIES	WP 3.0, LINE 21C	\$46.91
4	AUTOMATIC BREAKERS	WP 3.0, LINE 26C	\$36.43
5	POWER DISTRIBUTION SERVICE CABINET	WP 3.0, LINE 31C	\$7.64
6	EMERGENCY ENGINE/TURBINE (AUTO START)	WP 3.0, LINE 40C	\$120.50
7	BATTERY DISTRIBUTION FUSE BAY	WP 3.0, LINE 45C	<u>\$10.25</u>
8	TOTAL DC POWER PLANT UNIT INVESTMENT	SUM (LINE 1 THRU LINE 7)	\$262.90

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DC POWER - GREATER THAN 60 AMPS

	(A)	(B)	(C)
<u>LINE NO.</u>	<u>ITEM</u>	<u>SOURCE</u>	<u>DATA</u>
1	MICROPROCESSOR PLANT (BUSS BAR)	WP 3.1, LINE 5C	\$6.28
2	RECTIFIERS	WP 3.1, LINE 14C	\$34.89
3	BATTERIES	WP 3.1, LINE 21C	\$46.91
4	AUTOMATIC BREAKERS	WP 3.1, LINE 26C	\$36.43
5	POWER DISTRIBUTION SERVICE CABINET	WP 3.1, LINE 31C	\$7.64
6	EMERGENCY ENGINE/TURBINE (AUTO START)	WP 3.1, LINE 40C	\$120.50
7	POWER PLANT DISTRIBUTION BAY	WP 3.1, LINE 45C	<u>\$9.20</u>
8	TOTAL DC POWER PLANT UNIT INVESTMENT	SUM (LINE 1 THRU LINE 7)	\$261.85

	(B)	(C)	(D)	(E)	(F)	(G)	(H)
LINE NO.	ITEM	SOURCE	MAJOR CITIES	HIGH RISE MAJOR CITIES	URBAN	SUBURBAN	RURAL
	<u>Microprocessor Plant (BUSS BAR)</u>						
1	AMP	Engineering	5,000	6,000	2,600	2,600	600
2	Material	Engineering	\$22,800	\$48,000	\$17,500	\$11,500	\$10,000
3	Unit Investment Per AMP	(L2 / L1)	\$4.56	\$8.00	\$6.73	\$4.42	\$16.67
4	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
5	Statewide Unit Investment Per AMP		\$6.28	\$2.54	\$1.09	\$0.84	\$1.38
	Sum (L5D thru L5H)						
	<u>Rectifiers</u>						
6	Quantity	Engineering	6	6	6	6	7
7	AMPS per unit	Engineering	400	400	200	200	50
8	Tot. AMPS	(L6 * L7)	2,400	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$51,900	\$51,900	\$35,500	\$35,500	\$32,500
11	Total Investment	(L10 / L9)	\$62,280	\$62,280	\$42,600	\$42,600	\$37,917
12	Unit Investment Per AMP	(L11 / L8)	\$25.95	\$25.95	\$35.50	\$35.50	\$108.33
13	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
14	Statewide Unit Investment Per AMP		\$34.89	\$14.46	\$3.53	\$4.41	\$8.94
	Sum (L14D thru L14H)						
	<u>Batteries</u>						
15	Strings	Engineering	3	4	3	3	2
16	AMPS per String	Engineering	688	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	2,752	930	930	620
18	Total Investment	Engineering	\$98,500	\$130,000	\$40,500	\$40,500	\$31,000
19	Unit Investment Per AMP	(L18 / L17)	\$47.72	\$47.24	\$43.55	\$43.55	\$50.00
20	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
21	Statewide Unit Investment Per AMP		\$46.91	\$26.60	\$6.42	\$5.41	\$4.35
	Sum (L21D thru L21H)						
	<u>Automatic Breaker</u>						
22	AMP per Breaker	Engineering	1,600	3,200	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$150,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$46.88	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
26	Statewide Unit Investment Per AMP		\$36.43	\$17.42	\$6.37	\$4.14	\$4.37
	Sum (L26D thru L26H)						
	<u>Power Distribution Service Cabinet</u>						
27	Amps	Engineering	800	3,200	800	400	400
28	Material	Engineering	\$7,000	\$16,000	\$4,000	\$3,700	\$2,600
29	Unit Investment Per AMP	(L28 / L27)	\$8.75	\$5.00	\$5.00	\$9.25	\$6.50
30	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
31	Statewide Unit Investment Per AMP		\$7.64	\$4.88	\$0.68	\$0.62	\$0.54
	Sum (L31D thru L31H)						
	<u>Emergency engine/turbine (auto start)</u>						
32	AMP Capacity	Engineering	2,083	2,083	1,216	868	278
33	Utilization	Engineering	70%	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,458	1,458	851	608	195
35	Emerg. Engine Invest.	Engineering	\$125,000	\$125,000	\$38,200	\$33,500	\$21,000
36	Conduit/Emer Lights	Engineering	\$35,000	\$115,000	\$30,000	\$25,000	\$20,000
37	Total Investment	(L35 + L36)	\$160,000	\$240,000	\$68,200	\$58,500	\$41,000
38	Unit Investment Per AMP	(L37 / L34)	\$109.73	\$164.60	\$80.12	\$96.28	\$210.69
39	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
40	Statewide Unit Investment Per AMP		\$120.50	\$61.16	\$22.38	\$9.96	\$9.61
	Sum (L40D thru L40H)						
	<u>Battery Distribution Fuse Bay</u>						
41	AMP Capacity	Engineering	800	800	800	800	800
42	Material	Engineering	\$8,				

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DC POWER - GREATER THAN 60 AMPS

	(B)	(C)	(D)	(E)	(F)	(G)	(H)
LINE NO.	ITEM	SOURCE	MAJOR CITIES	HIGH RISE MAJOR CITIES	URBAN	SUBURBAN	RURAL
	Microprocessor Plant (BUSS BAR)						
1	AMP	Engineering	5,000	6,000	2,600	2,600	600
2	Material	Engineering	\$22,800	\$48,000	\$17,500	\$11,500	\$10,000
3	Unit Investment Per AMP	(L2 / L1)	\$4.56	\$8.00	\$6.73	\$4.42	\$16.67
4	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
5	Statewide Unit Investment Per AMP		\$6.28	\$1.09	\$0.84	\$0.44	\$1.38
	Sum (L5D thru L5H)						
	Rectifiers						
6	Quantity	Engineering	6	6	6	6	7
7	AMPS per unit	Engineering	400	400	200	200	50
8	Tot. AMPS	(L6 * L7)	2,400	2,400	1,200	1,200	350
9	Utilization	(L6-1) / L6)	83.33%	83.33%	83.33%	83.33%	85.71%
10	Material	Engineering	\$51,900	\$51,900	\$35,500	\$35,500	\$32,500
11	Total Investment	(L10 / L9)	\$62,280	\$62,280	\$42,600	\$42,600	\$37,917
12	Unit Investment Per AMP	(L11 / L8)	\$25.95	\$25.95	\$35.50	\$35.50	\$108.33
13	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
14	Statewide Unit Investment Per AMP		\$34.89	\$14.46	\$3.53	\$4.41	\$3.54
	Sum (L14D thru L14H)						
	Batteries						
15	Strings	Engineering	3	4	3	3	2
16	AMPS per String	Engineering	688	688	310	310	310
17	Tot. AMPS	(L15 * L16)	2,064	2,752	930	930	620
18	Total Investment	Engineering	\$98,500	\$130,000	\$40,500	\$40,500	\$31,000
19	Unit Investment Per AMP	(L18 / L17)	\$47.72	\$47.24	\$43.55	\$43.55	\$50.00
20	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
21	Statewide Unit Investment Per AMP		\$46.91	\$26.60	\$6.42	\$5.41	\$4.13
	Sum (L21D thru L21H)						
	Automatic Breaker						
22	AMP per Breaker	Engineering	1,600	3,200	1,200	800	400
23	Total Investment	Engineering	\$50,000	\$150,000	\$40,000	\$35,000	\$20,000
24	Unit Investment Per AMP	(L23 / L22)	\$31.25	\$46.88	\$33.33	\$43.75	\$50.00
25	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
26	Statewide Unit Investment Per AMP		\$36.43	\$17.42	\$6.37	\$4.14	\$4.13
	Sum (L26D thru L26H)						
	Power Distribution Service Cabinet						
27	Amps	Engineering	800	3,200	800	400	400
28	Material	Engineering	\$7,000	\$16,000	\$4,000	\$3,700	\$2,600
29	Unit Investment Per AMP	(L28 / L27)	\$8.75	\$5.00	\$5.00	\$9.25	\$6.50
30	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
31	Statewide Unit Investment Per AMP		\$7.64	\$4.88	\$0.68	\$0.62	\$0.54
	Sum (L31D thru L31H)						
	Emergency engine/turbine (auto start)						
32	AMP Capacity	Engineering	2,083	2,083	1,216	868	278
33	Utilization	Engineering	70%	70%	70%	70%	70%
34	Utilized AMPS	(L32 * L33)	1,458	1,458	851	608	195
35	Emerg. Engine Invest.	Engineering	\$125,000	\$125,000	\$38,200	\$33,500	\$21,000
36	Conduit/Emer Lights	Engineering	\$35,000	\$115,000	\$30,000	\$25,000	\$20,000
37	Total Investment	(L35 + L36)	\$160,000	\$240,000	\$68,200	\$58,500	\$41,000
38	Unit Investment Per AMP	(L37 / L34)	\$109.73	\$164.60	\$80.12	\$96.28	\$210.69
39	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
40	Statewide Unit Investment Per AMP		\$120.50	\$61.16	\$22.38	\$9.96	\$17.40
	Sum (L40D thru L40H)						
	Power Plant Distribution Bay						
41	AMP Capacity	Engineering	2,600	2,600	1,200	1,200	300
42	Material	Engineering	\$20,000	\$22,000	\$15,000	\$10,000	\$5,000
43	Unit Investment Per AMP	(L42 / L41)	\$7.69	\$8.46	\$12.50	\$8.33	\$16.67
44	Statewide Weighting	Service Costs	0.5574	0.1359	0.1243	0.0998	0.0826
45	Statewide Unit Investment Per AMP		\$9.20	\$4.29	\$1.15	\$1.55	\$1.38
	Sum (L45D thru L45H)						
	Total Unit Investment - (Greater than 60 AMPs) -Sum Lines						
46	(5C+14C+21C+26C+31C+40C+45C)		\$261.85				

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FACTORS

<u>Line No.</u>	<u>(A)</u> <u>Factor Item</u>	<u>(B)</u> <u>Source</u>	<u>(C)</u> <u>FCC</u> <u>DATA</u>
<u>ANNUAL COST FACTOR</u>			
	- Digital Switch - Power (2212.00)		
1	DEPRECIATION	SERVICE COSTS	0.0636
2	COST OF MONEY	SERVICE COSTS	0.0553
3	INCOME TAX	SERVICE COSTS	0.0224
4	OTHER TAX	SERVICE COSTS	0.0021
5	MAINTENANCE	SERVICE COSTS	0.0841
6	ADMINISTRATION	SERVICE COSTS	0.0364
7	TOTAL- Digital Switch ACF	SUM (LINES 1 THRU LINE 6)	0.2639
	- Land		
8	DEPRECIATION	SERVICE COSTS	0.0000
9	COST OF MONEY	SERVICE COSTS	0.1145
10	INCOME TAX	SERVICE COSTS	0.0463
11	OTHER TAX	SERVICE COSTS	0.0317
12	MAINTENANCE	SERVICE COSTS	0.0269
13	ADMINISTRATION	SERVICE COSTS	0.0364
14	TOTAL- Land ACF	SUM (LINES 8 THRU LINE 13)	0.2558
	- Building		
15	DEPRECIATION	SERVICE COSTS	0.0224
16	COST OF MONEY	SERVICE COSTS	0.0852
17	INCOME TAX	SERVICE COSTS	0.0344
18	OTHER TAX	SERVICE COSTS	0.0317
19	MAINTENANCE	SERVICE COSTS	0.0269
20	ADMINISTRATION	SERVICE COSTS	0.0364
21	TOTAL- Building ACF	SUM (LINES 15 THRU LINE 20)	0.2370
<u>OTHER FACTORS:</u>			
22	LAND INVESTMENT FACTOR	SERVICE COSTS	0.0000
23	BUILDING INVESTMENT FACTOR	SERVICE COSTS	0.2140
24	EF&I FACTOR - FRC 377C (DC POWER)	SERVICE COSTS	2.7852
25	DC POWER - OVERHEAD LOADING FACTOR	COMMISSION PRESCRIBED	1.3200