

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 1%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 1.55 18.7 Inches

BioInitiative ft. 127.50 1530.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	12981.28	10.25	15.44	20.25	3.96	30.25	1.77
0.50	5192.51	10.50	14.71	20.50	3.86	30.50	1.74
0.75	2596.26	10.75	14.03	20.75	3.77	30.75	1.72
1.00	1527.21	11.00	13.40	21.00	3.68	31.00	1.69
1.25	998.56	11.25	12.81	21.25	3.59	31.25	1.66
1.50	701.69	11.50	12.26	21.50	3.51	31.50	1.64
1.75	519.25	11.75	11.75	21.75	3.43	31.75	1.61
2.00	399.42	12.00	11.26	22.00	3.35	32.00	1.58
2.25	316.62	12.25	10.81	22.25	3.28	32.25	1.56
2.50	257.06	12.50	10.38	22.50	3.20	32.50	1.54
2.75	212.81	12.75	9.98	22.75	3.13	32.75	1.51
3.00	179.05	13.00	9.60	23.00	3.07	33.00	1.49
3.25	152.72	13.25	9.24	23.25	3.00	33.25	1.47
3.50	131.79	13.50	8.90	23.50	2.94	33.50	1.45
3.75	114.88	13.75	8.58	23.75	2.88	33.75	1.42
4.00	101.02	14.00	8.28	24.00	2.82	34.00	1.40
4.25	89.53	14.25	7.99	24.25	2.76	34.25	1.38
4.50	79.88	14.50	7.72	24.50	2.70	34.50	1.36
4.75	71.72	14.75	7.46	24.75	2.65	34.75	1.34
5.00	64.74	15.00	7.21	25.00	2.60	35.00	1.32
5.25	58.74	15.25	6.98	25.25	2.54	35.25	1.31
5.50	53.53	15.50	6.75	25.50	2.50	35.50	1.29
5.75	48.99	15.75	6.54	25.75	2.45	35.75	1.27
6.00	45.00	16.00	6.34	26.00	2.40	36.00	1.25
6.25	41.47	16.25	6.14	26.25	2.35	36.25	1.23
6.50	38.35	16.50	5.96	26.50	2.31	36.50	1.22
6.75	35.57	16.75	5.78	26.75	2.27	36.75	1.20
7.00	33.07	17.00	5.61	27.00	2.23	37.00	1.19
7.25	30.83	17.25	5.45	27.25	2.19	37.25	1.17
7.50	28.82	17.50	5.30	27.50	2.15	37.50	1.15
7.75	26.99	17.75	5.15	27.75	2.11	37.75	1.14
8.00	25.33	18.00	5.01	28.00	2.07	38.00	1.12
8.25	23.82	18.25	4.87	28.25	2.03	38.25	1.11
8.50	22.44	18.50	4.74	28.50	2.00	38.50	1.09
8.75	21.18	18.75	4.61	28.75	1.96	38.75	1.08
9.00	20.02	19.00	4.49	29.00	1.93	39.00	1.07
9.25	18.95	19.25	4.38	29.25	1.90	39.25	1.05
9.50	17.97	19.50	4.27	29.50	1.86	39.50	1.04
9.75	17.06	19.75	4.16	29.75	1.83	39.75	1.03
10.00	16.22	20.00	4.06	30.00	1.80	40.00	1.01

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 1%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 1.55

18.66 Inches

BioInitiative ft. 127.50

1530.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	1.00	54.25	0.55	68.25	0.35	82.25	0.24
40.50	0.99	54.50	0.55	68.50	0.35	82.50	0.24
40.75	0.98	54.75	0.54	68.75	0.34	82.75	0.24
41.00	0.97	55.00	0.54	69.00	0.34	83.00	0.24
41.25	0.95	55.25	0.53	69.25	0.34	83.25	0.23
41.50	0.94	55.50	0.53	69.50	0.34	83.50	0.23
41.75	0.93	55.75	0.52	69.75	0.33	83.75	0.23
42.00	0.92	56.00	0.52	70.00	0.33	84.00	0.23
42.25	0.91	56.25	0.51	70.25	0.33	84.25	0.23
42.50	0.90	56.50	0.51	70.50	0.33	84.50	0.23
42.75	0.89	56.75	0.50	70.75	0.32	84.75	0.23
43.00	0.88	57.00	0.50	71.00	0.32	85.00	0.22
43.25	0.87	57.25	0.50	71.25	0.32	85.25	0.22
43.50	0.86	57.50	0.49	71.50	0.32	85.50	0.22
43.75	0.85	57.75	0.49	71.75	0.32	85.75	0.22
44.00	0.84	58.00	0.48	72.00	0.31	86.00	0.22
44.25	0.83	58.25	0.48	72.25	0.31	86.25	0.22
44.50	0.82	58.50	0.47	72.50	0.31	86.50	0.22
44.75	0.81	58.75	0.47	72.75	0.31	86.75	0.22
45.00	0.80	59.00	0.47	73.00	0.30	87.00	0.21
45.25	0.79	59.25	0.46	73.25	0.30	87.25	0.21
45.50	0.78	59.50	0.46	73.50	0.30	87.50	0.21
45.75	0.78	59.75	0.45	73.75	0.30	87.75	0.21
46.00	0.77	60.00	0.45	74.00	0.30	88.00	0.21
46.25	0.76	60.25	0.45	74.25	0.29	88.25	0.21
46.50	0.75	60.50	0.44	74.50	0.29	88.50	0.21
46.75	0.74	60.75	0.44	74.75	0.29	88.75	0.21
47.00	0.73	61.00	0.44	75.00	0.29	89.00	0.20
47.25	0.73	61.25	0.43	75.25	0.29	89.25	0.20
47.50	0.72	61.50	0.43	75.50	0.28	89.50	0.20
47.75	0.71	61.75	0.43	75.75	0.28	89.75	0.20
48.00	0.70	62.00	0.42	76.00	0.28	90.00	0.20
48.25	0.70	62.25	0.42	76.25	0.28	90.25	0.20
48.50	0.69	62.50	0.42	76.50	0.28	90.50	0.20
48.75	0.68	62.75	0.41	76.75	0.28	90.75	0.20
49.00	0.68	63.00	0.41	77.00	0.27	91.00	0.20
49.25	0.67	63.25	0.41	77.25	0.27	91.25	0.19
49.50	0.66	63.50	0.40	77.50	0.27	91.50	0.19
49.75	0.66	63.75	0.40	77.75	0.27	91.75	0.19
50.00	0.65	64.00	0.40	78.00	0.27	92.00	0.19
50.25	0.64	64.25	0.39	78.25	0.27	92.25	0.19
50.50	0.64	64.50	0.39	78.50	0.26	92.50	0.19
50.75	0.63	64.75	0.39	78.75	0.26	92.75	0.19
51.00	0.62	65.00	0.38	79.00	0.26	93.00	0.19
51.25	0.62	65.25	0.38	79.25	0.26	93.25	0.19
51.50	0.61	65.50	0.38	79.50	0.26	93.50	0.19
51.75	0.61	65.75	0.38	79.75	0.26	93.75	0.18
52.00	0.60	66.00	0.37	80.00	0.25	94.00	0.18
52.25	0.59	66.25	0.37	80.25	0.25	94.25	0.18
52.50	0.59	66.50	0.37	80.50	0.25	94.50	0.18
52.75	0.58	66.75	0.36	80.75	0.25	94.75	0.18
53.00	0.58	67.00	0.36	81.00	0.25	95.00	0.18
53.25	0.57	67.25	0.36	81.25	0.25	95.25	0.18
53.50	0.57	67.50	0.36	81.50	0.24	95.50	0.18
53.75	0.56	67.75	0.35	81.75	0.24	95.75	0.18
54.00	0.56	68.00	0.35	82.00	0.24	96.00	0.18

Table 8 – 1%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 10%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 4.97 59.7 Inches

BioInitiative ft. 402.00 4824.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	129812.81	10.25	154.36	20.25	39.57	30.25	17.73
0.50	51925.13	10.50	147.10	20.50	38.61	30.50	17.44
0.75	25962.56	10.75	140.34	20.75	37.68	30.75	17.16
1.00	15272.10	11.00	134.03	21.00	36.79	31.00	16.88
1.25	9985.60	11.25	128.15	21.25	35.93	31.25	16.61
1.50	7016.91	11.50	122.64	21.50	35.10	31.50	16.35
1.75	5192.51	11.75	117.48	21.75	34.30	31.75	16.10
2.00	3994.24	12.00	112.64	22.00	33.52	32.00	15.85
2.25	3166.17	12.25	108.09	22.25	32.77	32.25	15.60
2.50	2570.55	12.50	103.81	22.50	32.05	32.50	15.36
2.75	2128.08	12.75	99.78	22.75	31.35	32.75	15.13
3.00	1790.52	13.00	95.98	23.00	30.67	33.00	14.90
3.25	1527.21	13.25	92.39	23.25	30.01	33.25	14.68
3.50	1317.90	13.50	89.00	23.50	29.38	33.50	14.46
3.75	1148.79	13.75	85.80	23.75	28.76	33.75	14.24
4.00	1010.22	14.00	82.76	24.00	28.17	34.00	14.04
4.25	895.26	14.25	79.88	24.25	27.59	34.25	13.83
4.50	798.85	14.50	77.15	24.50	27.03	34.50	13.63
4.75	717.20	14.75	74.56	24.75	26.49	34.75	13.44
5.00	647.45	15.00	72.10	25.00	25.96	35.00	13.25
5.25	587.39	15.25	69.75	25.25	25.45	35.25	13.06
5.50	535.31	15.50	67.52	25.50	24.95	35.50	12.88
5.75	489.86	15.75	65.40	25.75	24.47	35.75	12.70
6.00	449.96	16.00	63.37	26.00	24.00	36.00	12.52
6.25	414.74	16.25	61.44	26.25	23.55	36.25	12.35
6.50	383.49	16.50	59.59	26.50	23.10	36.50	12.18
6.75	355.65	16.75	57.82	26.75	22.67	36.75	12.01
7.00	330.73	17.00	56.14	27.00	22.26	37.00	11.85
7.25	308.34	17.25	54.52	27.25	21.85	37.25	11.69
7.50	288.15	17.50	52.97	27.50	21.45	37.50	11.54
7.75	269.88	17.75	51.49	27.75	21.07	37.75	11.39
8.00	253.29	18.00	50.07	28.00	20.70	38.00	11.24
8.25	238.19	18.25	48.71	28.25	20.33	38.25	11.09
8.50	224.40	18.50	47.40	28.50	19.98	38.50	10.95
8.75	211.77	18.75	46.15	28.75	19.63	38.75	10.81
9.00	200.17	19.00	44.94	29.00	19.29	39.00	10.67
9.25	189.51	19.25	43.78	29.25	18.96	39.25	10.53
9.50	179.67	19.50	42.67	29.50	18.64	39.50	10.40
9.75	170.58	19.75	41.59	29.75	18.33	39.75	10.27
10.00	162.16	20.00	40.56	30.00	18.03	40.00	10.14

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi i) R^2$$
 - S = Power Density uW/cm²
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SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 10%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 4.97

59.68 Inches

BioInitiative ft. 402.00

4824.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	10.02	54.25	5.51	68.25	3.48	82.25	2.40
40.50	9.89	54.50	5.46	68.50	3.46	82.50	2.38
40.75	9.77	54.75	5.41	68.75	3.43	82.75	2.37
41.00	9.65	55.00	5.36	69.00	3.41	83.00	2.36
41.25	9.54	55.25	5.32	69.25	3.38	83.25	2.34
41.50	9.42	55.50	5.27	69.50	3.36	83.50	2.33
41.75	9.31	55.75	5.22	69.75	3.34	83.75	2.31
42.00	9.20	56.00	5.17	70.00	3.31	84.00	2.30
42.25	9.09	56.25	5.13	70.25	3.29	84.25	2.29
42.50	8.98	56.50	5.08	70.50	3.26	84.50	2.27
42.75	8.88	56.75	5.04	70.75	3.24	84.75	2.26
43.00	8.78	57.00	4.99	71.00	3.22	85.00	2.25
43.25	8.67	57.25	4.95	71.25	3.20	85.25	2.23
43.50	8.58	57.50	4.91	71.50	3.17	85.50	2.22
43.75	8.48	57.75	4.87	71.75	3.15	85.75	2.21
44.00	8.38	58.00	4.82	72.00	3.13	86.00	2.19
44.25	8.29	58.25	4.78	72.25	3.11	86.25	2.18
44.50	8.19	58.50	4.74	72.50	3.09	86.50	2.17
44.75	8.10	58.75	4.70	72.75	3.07	86.75	2.16
45.00	8.01	59.00	4.66	73.00	3.04	87.00	2.14
45.25	7.92	59.25	4.62	73.25	3.02	87.25	2.13
45.50	7.84	59.50	4.58	73.50	3.00	87.50	2.12
45.75	7.75	59.75	4.55	73.75	2.98	87.75	2.11
46.00	7.67	60.00	4.51	74.00	2.96	88.00	2.10
46.25	7.59	60.25	4.47	74.25	2.94	88.25	2.08
46.50	7.50	60.50	4.43	74.50	2.92	88.50	2.07
46.75	7.42	60.75	4.40	74.75	2.90	88.75	2.06
47.00	7.35	61.00	4.36	75.00	2.88	89.00	2.05
47.25	7.27	61.25	4.33	75.25	2.87	89.25	2.04
47.50	7.19	61.50	4.29	75.50	2.85	89.50	2.03
47.75	7.12	61.75	4.26	75.75	2.83	89.75	2.01
48.00	7.04	62.00	4.22	76.00	2.81	90.00	2.00
48.25	6.97	62.25	4.19	76.25	2.79	90.25	1.99
48.50	6.90	62.50	4.15	76.50	2.77	90.50	1.98
48.75	6.83	62.75	4.12	76.75	2.75	90.75	1.97
49.00	6.76	63.00	4.09	77.00	2.74	91.00	1.96
49.25	6.69	63.25	4.06	77.25	2.72	91.25	1.95
49.50	6.62	63.50	4.02	77.50	2.70	91.50	1.94
49.75	6.56	63.75	3.99	77.75	2.68	91.75	1.93
50.00	6.49	64.00	3.96	78.00	2.67	92.00	1.92
50.25	6.43	64.25	3.93	78.25	2.65	92.25	1.91
50.50	6.36	64.50	3.90	78.50	2.63	92.50	1.90
50.75	6.30	64.75	3.87	78.75	2.62	92.75	1.89
51.00	6.24	65.00	3.84	79.00	2.60	93.00	1.88
51.25	6.18	65.25	3.81	79.25	2.58	93.25	1.87
51.50	6.12	65.50	3.78	79.50	2.57	93.50	1.86
51.75	6.06	65.75	3.75	79.75	2.55	93.75	1.85
52.00	6.00	66.00	3.73	80.00	2.54	94.00	1.84
52.25	5.94	66.25	3.70	80.25	2.52	94.25	1.83
52.50	5.89	66.50	3.67	80.50	2.50	94.50	1.82
52.75	5.83	66.75	3.64	80.75	2.49	94.75	1.81
53.00	5.78	67.00	3.61	81.00	2.47	95.00	1.80
53.25	5.72	67.25	3.59	81.25	2.46	95.25	1.79
53.50	5.67	67.50	3.56	81.50	2.44	95.50	1.78
53.75	5.62	67.75	3.54	81.75	2.43	95.75	1.77
54.00	5.56	68.00	3.51	82.00	2.41	96.00	1.76

Table 8 – 10%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 20%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 7.04 84.5 Inches

BioInitiative ft. 570.00 6840.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	259625.63	10.25	308.71	20.25	79.13	30.25	35.46
0.50	103850.25	10.50	294.19	20.50	77.21	30.50	34.88
0.75	51925.13	10.75	280.68	20.75	75.36	30.75	34.32
1.00	30544.19	11.00	268.07	21.00	73.58	31.00	33.77
1.25	19971.20	11.25	256.29	21.25	71.86	31.25	33.23
1.50	14033.82	11.50	245.28	21.50	70.20	31.50	32.70
1.75	10385.03	11.75	234.96	21.75	68.59	31.75	32.19
2.00	7988.48	12.00	225.27	22.00	67.04	32.00	31.69
2.25	6332.33	12.25	216.17	22.25	65.55	32.25	31.20
2.50	5141.10	12.50	207.62	22.50	64.10	32.50	30.72
2.75	4256.16	12.75	199.56	22.75	62.70	32.75	30.26
3.00	3581.04	13.00	191.96	23.00	61.34	33.00	29.80
3.25	3054.42	13.25	184.79	23.25	60.03	33.25	29.35
3.50	2635.79	13.50	178.01	23.50	58.76	33.50	28.92
3.75	2297.57	13.75	171.60	23.75	57.53	33.75	28.49
4.00	2020.43	14.00	165.52	24.00	56.34	34.00	28.07
4.25	1790.52	14.25	159.77	24.25	55.18	34.25	27.66
4.50	1597.70	14.50	154.31	24.50	54.06	34.50	27.26
4.75	1434.40	14.75	149.12	24.75	52.97	34.75	26.87
5.00	1294.89	15.00	144.20	25.00	51.92	35.00	26.49
5.25	1174.78	15.25	139.51	25.25	50.90	35.25	26.12
5.50	1070.62	15.50	135.05	25.50	49.90	35.50	25.75
5.75	979.72	15.75	130.79	25.75	48.94	35.75	25.39
6.00	899.92	16.00	126.74	26.00	48.00	36.00	25.04
6.25	829.47	16.25	122.87	26.25	47.09	36.25	24.70
6.50	766.99	16.50	119.18	26.50	46.21	36.50	24.36
6.75	711.30	16.75	115.65	26.75	45.35	36.75	24.03
7.00	661.47	17.00	112.27	27.00	44.51	37.00	23.70
7.25	616.69	17.25	109.04	27.25	43.70	37.25	23.39
7.50	576.31	17.50	105.95	27.50	42.91	37.50	23.08
7.75	539.76	17.75	102.99	27.75	42.14	37.75	22.77
8.00	506.59	18.00	100.14	28.00	41.39	38.00	22.47
8.25	476.38	18.25	97.42	28.25	40.66	38.25	22.18
8.50	448.79	18.50	94.81	28.50	39.95	38.50	21.89
8.75	423.53	18.75	92.29	28.75	39.26	38.75	21.61
9.00	400.35	19.00	89.88	29.00	38.59	39.00	21.34
9.25	379.02	19.25	87.56	29.25	37.93	39.25	21.06
9.50	359.34	19.50	85.33	29.50	37.29	39.50	20.80
9.75	341.16	19.75	83.19	29.75	36.67	39.75	20.54
10.00	324.33	20.00	81.12	30.00	36.06	40.00	20.28

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 20%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 7.04

84.45 Inches

BioInitiative ft. 570.00

6840.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	20.03	54.25	11.03	68.25	6.97	82.25	4.80
40.50	19.78	54.50	10.93	68.50	6.92	82.50	4.77
40.75	19.54	54.75	10.83	68.75	6.87	82.75	4.74
41.00	19.31	55.00	10.73	69.00	6.82	83.00	4.71
41.25	19.07	55.25	10.63	69.25	6.77	83.25	4.68
41.50	18.84	55.50	10.54	69.50	6.72	83.50	4.65
41.75	18.62	55.75	10.44	69.75	6.67	83.75	4.63
42.00	18.40	56.00	10.35	70.00	6.62	84.00	4.60
42.25	18.18	56.25	10.26	70.25	6.58	84.25	4.57
42.50	17.97	56.50	10.17	70.50	6.53	84.50	4.55
42.75	17.76	56.75	10.08	70.75	6.48	84.75	4.52
43.00	17.55	57.00	9.99	71.00	6.44	85.00	4.49
43.25	17.35	57.25	9.90	71.25	6.39	85.25	4.47
43.50	17.15	57.50	9.82	71.50	6.35	85.50	4.44
43.75	16.95	57.75	9.73	71.75	6.30	85.75	4.41
44.00	16.76	58.00	9.65	72.00	6.26	86.00	4.39
44.25	16.57	58.25	9.56	72.25	6.22	86.25	4.36
44.50	16.39	58.50	9.48	72.50	6.17	86.50	4.34
44.75	16.21	58.75	9.40	72.75	6.13	86.75	4.31
45.00	16.03	59.00	9.32	73.00	6.09	87.00	4.29
45.25	15.85	59.25	9.24	73.25	6.05	87.25	4.26
45.50	15.68	59.50	9.17	73.50	6.01	87.50	4.24
45.75	15.50	59.75	9.09	73.75	5.97	87.75	4.21
46.00	15.34	60.00	9.01	74.00	5.93	88.00	4.19
46.25	15.17	60.25	8.94	74.25	5.89	88.25	4.17
46.50	15.01	60.50	8.87	74.50	5.85	88.50	4.14
46.75	14.85	60.75	8.79	74.75	5.81	88.75	4.12
47.00	14.69	61.00	8.72	75.00	5.77	89.00	4.10
47.25	14.54	61.25	8.65	75.25	5.73	89.25	4.07
47.50	14.38	61.50	8.58	75.50	5.69	89.50	4.05
47.75	14.23	61.75	8.51	75.75	5.66	89.75	4.03
48.00	14.09	62.00	8.44	76.00	5.62	90.00	4.01
48.25	13.94	62.25	8.37	76.25	5.58	90.25	3.98
48.50	13.80	62.50	8.31	76.50	5.55	90.50	3.96
48.75	13.66	62.75	8.24	76.75	5.51	90.75	3.94
49.00	13.52	63.00	8.18	77.00	5.47	91.00	3.92
49.25	13.38	63.25	8.11	77.25	5.44	91.25	3.90
49.50	13.24	63.50	8.05	77.50	5.40	91.50	3.88
49.75	13.11	63.75	7.99	77.75	5.37	91.75	3.86
50.00	12.98	64.00	7.92	78.00	5.33	92.00	3.83
50.25	12.85	64.25	7.86	78.25	5.30	92.25	3.81
50.50	12.73	64.50	7.80	78.50	5.27	92.50	3.79
50.75	12.60	64.75	7.74	78.75	5.23	92.75	3.77
51.00	12.48	65.00	7.68	79.00	5.20	93.00	3.75
51.25	12.36	65.25	7.62	79.25	5.17	93.25	3.73
51.50	12.24	65.50	7.56	79.50	5.13	93.50	3.71
51.75	12.12	65.75	7.51	79.75	5.10	93.75	3.69
52.00	12.00	66.00	7.45	80.00	5.07	94.00	3.67
52.25	11.89	66.25	7.39	80.25	5.04	94.25	3.65
52.50	11.77	66.50	7.34	80.50	5.01	94.50	3.63
52.75	11.66	66.75	7.28	80.75	4.98	94.75	3.61
53.00	11.55	67.00	7.23	81.00	4.95	95.00	3.60
53.25	11.44	67.25	7.18	81.25	4.92	95.25	3.58
53.50	11.34	67.50	7.12	81.50	4.89	95.50	3.56
53.75	11.23	67.75	7.07	81.75	4.86	95.75	3.54
54.00	11.13	68.00	7.02	82.00	4.83	96.00	3.52

Table 8 – 20%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 30%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 8.62 103.5 Inches

BioInitiative ft. 698.00 8376.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	389438.44	10.25	463.07	20.25	118.70	30.25	53.19
0.50	155775.38	10.50	441.29	20.50	115.82	30.50	52.33
0.75	77887.69	10.75	421.01	20.75	113.04	30.75	51.48
1.00	45816.29	11.00	402.10	21.00	110.37	31.00	50.65
1.25	29956.80	11.25	384.44	21.25	107.79	31.25	49.84
1.50	21050.73	11.50	367.92	21.50	105.30	31.50	49.06
1.75	15577.54	11.75	352.43	21.75	102.89	31.75	48.29
2.00	11982.72	12.00	337.91	22.00	100.57	32.00	47.54
2.25	9498.50	12.25	324.26	22.25	98.32	32.25	46.80
2.50	7711.65	12.50	311.43	22.50	96.15	32.50	46.08
2.75	6384.24	12.75	299.34	22.75	94.04	32.75	45.38
3.00	5371.56	13.00	287.94	23.00	92.01	33.00	44.70
3.25	4581.63	13.25	277.18	23.25	90.04	33.25	44.03
3.50	3953.69	13.50	267.01	23.50	88.14	33.50	43.37
3.75	3446.36	13.75	257.39	23.75	86.29	33.75	42.73
4.00	3030.65	14.00	248.29	24.00	84.50	34.00	42.11
4.25	2685.78	14.25	239.65	24.25	82.77	34.25	41.50
4.50	2396.54	14.50	231.46	24.50	81.09	34.50	40.90
4.75	2151.59	14.75	223.69	24.75	79.46	34.75	40.31
5.00	1942.34	15.00	216.29	25.00	77.88	35.00	39.74
5.25	1762.16	15.25	209.26	25.25	76.35	35.25	39.17
5.50	1605.93	15.50	202.57	25.50	74.86	35.50	38.63
5.75	1469.58	15.75	196.19	25.75	73.41	35.75	38.09
6.00	1349.87	16.00	190.11	26.00	72.00	36.00	37.56
6.25	1244.21	16.25	184.31	26.25	70.64	36.25	37.04
6.50	1150.48	16.50	178.76	26.50	69.31	36.50	36.54
6.75	1066.95	16.75	173.47	26.75	68.02	36.75	36.04
7.00	992.20	17.00	168.41	27.00	66.77	37.00	35.56
7.25	925.03	17.25	163.56	27.25	65.55	37.25	35.08
7.50	864.46	17.50	158.92	27.50	64.36	37.50	34.62
7.75	809.64	17.75	154.48	27.75	63.21	37.75	34.16
8.00	759.88	18.00	150.22	28.00	62.09	38.00	33.71
8.25	714.57	18.25	146.13	28.25	60.99	38.25	33.27
8.50	673.19	18.50	142.21	28.50	59.93	38.50	32.84
8.75	635.30	18.75	138.44	28.75	58.89	38.75	32.42
9.00	600.52	19.00	134.82	29.00	57.88	39.00	32.00
9.25	568.52	19.25	131.35	29.25	56.89	39.25	31.60
9.50	539.02	19.50	128.00	29.50	55.93	39.50	31.20
9.75	511.75	19.75	124.78	29.75	55.00	39.75	30.81
10.00	486.49	20.00	121.68	30.00	54.08	40.00	30.42

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi i) R^2$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 30%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 8.62

103.45 Inches

BioInitiative ft. 698.00

8376.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	30.05	54.25	16.54	68.25	10.45	82.25	7.20
40.50	29.68	54.50	16.39	68.50	10.37	82.50	7.15
40.75	29.31	54.75	16.24	68.75	10.30	82.75	7.11
41.00	28.96	55.00	16.09	69.00	10.22	83.00	7.07
41.25	28.61	55.25	15.95	69.25	10.15	83.25	7.02
41.50	28.26	55.50	15.80	69.50	10.08	83.50	6.98
41.75	27.93	55.75	15.66	69.75	10.01	83.75	6.94
42.00	27.60	56.00	15.52	70.00	9.93	84.00	6.90
42.25	27.27	56.25	15.38	70.25	9.86	84.25	6.86
42.50	26.95	56.50	15.25	70.50	9.79	84.50	6.82
42.75	26.64	56.75	15.12	70.75	9.73	84.75	6.78
43.00	26.33	57.00	14.98	71.00	9.66	85.00	6.74
43.25	26.02	57.25	14.85	71.25	9.59	85.25	6.70
43.50	25.73	57.50	14.72	71.50	9.52	85.50	6.66
43.75	25.43	57.75	14.60	71.75	9.46	85.75	6.62
44.00	25.14	58.00	14.47	72.00	9.39	86.00	6.58
44.25	24.86	58.25	14.35	72.25	9.33	86.25	6.54
44.50	24.58	58.50	14.22	72.50	9.26	86.50	6.51
44.75	24.31	58.75	14.10	72.75	9.20	86.75	6.47
45.00	24.04	59.00	13.98	73.00	9.13	87.00	6.43
45.25	23.77	59.25	13.87	73.25	9.07	87.25	6.39
45.50	23.51	59.50	13.75	73.50	9.01	87.50	6.36
45.75	23.26	59.75	13.64	73.75	8.95	87.75	6.32
46.00	23.00	60.00	13.52	74.00	8.89	88.00	6.29
46.25	22.76	60.25	13.41	74.25	8.83	88.25	6.25
46.50	22.51	60.50	13.30	74.50	8.77	88.50	6.22
46.75	22.27	60.75	13.19	74.75	8.71	88.75	6.18
47.00	22.04	61.00	13.08	75.00	8.65	89.00	6.15
47.25	21.80	61.25	12.98	75.25	8.60	89.25	6.11
47.50	21.57	61.50	12.87	75.50	8.54	89.50	6.08
47.75	21.35	61.75	12.77	75.75	8.48	89.75	6.04
48.00	21.13	62.00	12.66	76.00	8.43	90.00	6.01
48.25	20.91	62.25	12.56	76.25	8.37	90.25	5.98
48.50	20.69	62.50	12.46	76.50	8.32	90.50	5.94
48.75	20.48	62.75	12.36	76.75	8.26	90.75	5.91
49.00	20.27	63.00	12.26	77.00	8.21	91.00	5.88
49.25	20.07	63.25	12.17	77.25	8.16	91.25	5.85
49.50	19.87	63.50	12.07	77.50	8.10	91.50	5.81
49.75	19.67	63.75	11.98	77.75	8.05	91.75	5.78
50.00	19.47	64.00	11.88	78.00	8.00	92.00	5.75
50.25	19.28	64.25	11.79	78.25	7.95	92.25	5.72
50.50	19.09	64.50	11.70	78.50	7.90	92.50	5.69
50.75	18.90	64.75	11.61	78.75	7.85	92.75	5.66
51.00	18.72	65.00	11.52	79.00	7.80	93.00	5.63
51.25	18.53	65.25	11.43	79.25	7.75	93.25	5.60
51.50	18.35	65.50	11.35	79.50	7.70	93.50	5.57
51.75	18.18	65.75	11.26	79.75	7.65	93.75	5.54
52.00	18.00	66.00	11.18	80.00	7.61	94.00	5.51
52.25	17.83	66.25	11.09	80.25	7.56	94.25	5.48
52.50	17.66	66.50	11.01	80.50	7.51	94.50	5.45
52.75	17.49	66.75	10.93	80.75	7.47	94.75	5.42
53.00	17.33	67.00	10.84	81.00	7.42	95.00	5.39
53.25	17.17	67.25	10.76	81.25	7.37	95.25	5.37
53.50	17.01	67.50	10.68	81.50	7.33	95.50	5.34
53.75	16.85	67.75	10.61	81.75	7.28	95.75	5.31
54.00	16.69	68.00	10.53	82.00	7.24	96.00	5.28

Table 8 – 30%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 40%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 9.96 119.5 Inches

BioInitiative ft. 805.00 9660.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	519251.26	10.25	617.42	20.25	158.26	30.25	70.93
0.50	207700.50	10.50	588.39	20.50	154.42	30.50	69.77
0.75	103850.25	10.75	561.35	20.75	150.73	30.75	68.64
1.00	61088.38	11.00	536.14	21.00	147.16	31.00	67.54
1.25	39942.40	11.25	512.59	21.25	143.72	31.25	66.46
1.50	28067.64	11.50	490.55	21.50	140.40	31.50	65.41
1.75	20770.05	11.75	469.91	21.75	137.19	31.75	64.38
2.00	15976.96	12.00	450.54	22.00	134.09	32.00	63.38
2.25	12664.66	12.25	432.35	22.25	131.09	32.25	62.40
2.50	10282.20	12.50	415.23	22.50	128.19	32.50	61.45
2.75	8512.32	12.75	399.12	22.75	125.39	32.75	60.51
3.00	7162.09	13.00	383.92	23.00	122.68	33.00	59.60
3.25	6108.84	13.25	369.57	23.25	120.06	33.25	58.71
3.50	5271.59	13.50	356.02	23.50	117.52	33.50	57.83
3.75	4595.14	13.75	343.19	23.75	115.06	33.75	56.98
4.00	4040.87	14.00	331.05	24.00	112.67	34.00	56.14
4.25	3581.04	14.25	319.54	24.25	110.36	34.25	55.33
4.50	3195.39	14.50	308.62	24.50	108.12	34.50	54.53
4.75	2868.79	14.75	298.25	24.75	105.95	34.75	53.75
5.00	2589.78	15.00	288.39	25.00	103.84	35.00	52.98
5.25	2349.55	15.25	279.02	25.25	101.79	35.25	52.23
5.50	2141.24	15.50	270.09	25.50	99.81	35.50	51.50
5.75	1959.44	15.75	261.59	25.75	97.88	35.75	50.78
6.00	1799.83	16.00	253.48	26.00	96.01	36.00	50.08
6.25	1658.95	16.25	245.74	26.25	94.19	36.25	49.39
6.50	1533.98	16.50	238.35	26.50	92.42	36.50	48.72
6.75	1422.61	16.75	231.29	26.75	90.70	36.75	48.06
7.00	1322.93	17.00	224.54	27.00	89.03	37.00	47.41
7.25	1233.38	17.25	218.08	27.25	87.40	37.25	46.78
7.50	1152.61	17.50	211.90	27.50	85.82	37.50	46.15
7.75	1079.52	17.75	205.97	27.75	84.28	37.75	45.54
8.00	1013.17	18.00	200.29	28.00	82.78	38.00	44.95
8.25	952.75	18.25	194.84	28.25	81.32	38.25	44.36
8.50	897.58	18.50	189.61	28.50	79.90	38.50	43.79
8.75	847.07	18.75	184.59	28.75	78.52	38.75	43.22
9.00	800.70	19.00	179.77	29.00	77.17	39.00	42.67
9.25	758.03	19.25	175.13	29.25	75.86	39.25	42.13
9.50	718.69	19.50	170.67	29.50	74.58	39.50	41.60
9.75	682.33	19.75	166.37	29.75	73.33	39.75	41.08
10.00	648.66	20.00	162.24	30.00	72.11	40.00	40.56

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi i) R^2$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 40%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 9.96

119.47 Inches

BioInitiative ft. 805.00

9660.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	40.06	54.25	22.05	68.25	13.93	82.25	9.59
40.50	39.57	54.50	21.85	68.50	13.83	82.50	9.54
40.75	39.09	54.75	21.65	68.75	13.73	82.75	9.48
41.00	38.61	55.00	21.46	69.00	13.63	83.00	9.42
41.25	38.14	55.25	21.26	69.25	13.53	83.25	9.37
41.50	37.69	55.50	21.07	69.50	13.44	83.50	9.31
41.75	37.24	55.75	20.88	69.75	13.34	83.75	9.25
42.00	36.79	56.00	20.70	70.00	13.25	84.00	9.20
42.25	36.36	56.25	20.51	70.25	13.15	84.25	9.14
42.50	35.93	56.50	20.33	70.50	13.06	84.50	9.09
42.75	35.51	56.75	20.15	70.75	12.97	84.75	9.04
43.00	35.10	57.00	19.98	71.00	12.88	85.00	8.98
43.25	34.70	57.25	19.80	71.25	12.79	85.25	8.93
43.50	34.30	57.50	19.63	71.50	12.70	85.50	8.88
43.75	33.91	57.75	19.46	71.75	12.61	85.75	8.83
44.00	33.52	58.00	19.29	72.00	12.52	86.00	8.78
44.25	33.15	58.25	19.13	72.25	12.43	86.25	8.73
44.50	32.78	58.50	18.97	72.50	12.35	86.50	8.67
44.75	32.41	58.75	18.80	72.75	12.26	86.75	8.62
45.00	32.05	59.00	18.65	73.00	12.18	87.00	8.58
45.25	31.70	59.25	18.49	73.25	12.10	87.25	8.53
45.50	31.35	59.50	18.33	73.50	12.01	87.50	8.48
45.75	31.01	59.75	18.18	73.75	11.93	87.75	8.43
46.00	30.67	60.00	18.03	74.00	11.85	88.00	8.38
46.25	30.34	60.25	17.88	74.25	11.77	88.25	8.33
46.50	30.02	60.50	17.73	74.50	11.69	88.50	8.29
46.75	29.70	60.75	17.59	74.75	11.62	88.75	8.24
47.00	29.38	61.00	17.44	75.00	11.54	89.00	8.19
47.25	29.07	61.25	17.30	75.25	11.46	89.25	8.15
47.50	28.77	61.50	17.16	75.50	11.39	89.50	8.10
47.75	28.47	61.75	17.02	75.75	11.31	89.75	8.06
48.00	28.17	62.00	16.88	76.00	11.24	90.00	8.01
48.25	27.88	62.25	16.75	76.25	11.16	90.25	7.97
48.50	27.59	62.50	16.62	76.50	11.09	90.50	7.92
48.75	27.31	62.75	16.48	76.75	11.02	90.75	7.88
49.00	27.03	63.00	16.35	77.00	10.95	91.00	7.84
49.25	26.76	63.25	16.22	77.25	10.88	91.25	7.80
49.50	26.49	63.50	16.10	77.50	10.81	91.50	7.75
49.75	26.22	63.75	15.97	77.75	10.74	91.75	7.71
50.00	25.96	64.00	15.85	78.00	10.67	92.00	7.67
50.25	25.70	64.25	15.72	78.25	10.60	92.25	7.63
50.50	25.45	64.50	15.60	78.50	10.53	92.50	7.59
50.75	25.20	64.75	15.48	78.75	10.47	92.75	7.54
51.00	24.95	65.00	15.36	79.00	10.40	93.00	7.50
51.25	24.71	65.25	15.24	79.25	10.33	93.25	7.46
51.50	24.47	65.50	15.13	79.50	10.27	93.50	7.42
51.75	24.24	65.75	15.01	79.75	10.21	93.75	7.38
52.00	24.00	66.00	14.90	80.00	10.14	94.00	7.35
52.25	23.77	66.25	14.79	80.25	10.08	94.25	7.31
52.50	23.55	66.50	14.68	80.50	10.02	94.50	7.27
52.75	23.33	66.75	14.57	80.75	9.95	94.75	7.23
53.00	23.11	67.00	14.46	81.00	9.89	95.00	7.19
53.25	22.89	67.25	14.35	81.25	9.83	95.25	7.15
53.50	22.68	67.50	14.25	81.50	9.77	95.50	7.12
53.75	22.47	67.75	14.14	81.75	9.71	95.75	7.08
54.00	22.26	68.00	14.04	82.00	9.65	96.00	7.04

Table 8 – 40%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 50%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 11.13 133.6 Inches

BioInitiative ft. 900.00 10800.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	649064.07	10.25	771.78	20.25	197.83	30.25	88.66
0.50	259625.63	10.50	735.48	20.50	193.03	30.50	87.21
0.75	129812.81	10.75	701.69	20.75	188.41	30.75	85.80
1.00	76360.48	11.00	670.17	21.00	183.95	31.00	84.42
1.25	49928.01	11.25	640.73	21.25	179.65	31.25	83.07
1.50	35084.54	11.50	613.19	21.50	175.49	31.50	81.76
1.75	25962.56	11.75	587.39	21.75	171.48	31.75	80.48
2.00	19971.20	12.00	563.18	22.00	167.61	32.00	79.23
2.25	15830.83	12.25	540.44	22.25	163.86	32.25	78.00
2.50	12852.75	12.50	519.04	22.50	160.24	32.50	76.81
2.75	10640.39	12.75	498.90	22.75	156.74	32.75	75.64
3.00	8952.61	13.00	479.90	23.00	153.35	33.00	74.50
3.25	7636.05	13.25	461.97	23.25	150.07	33.25	73.38
3.50	6589.48	13.50	445.02	23.50	146.90	33.50	72.29
3.75	5743.93	13.75	428.99	23.75	143.82	33.75	71.22
4.00	5051.08	14.00	413.81	24.00	140.84	34.00	70.18
4.25	4476.30	14.25	399.42	24.25	137.95	34.25	69.16
4.50	3994.24	14.50	385.77	24.50	135.15	34.50	68.16
4.75	3585.99	14.75	372.81	24.75	132.44	34.75	67.18
5.00	3237.23	15.00	360.49	25.00	129.80	35.00	66.23
5.25	2936.94	15.25	348.77	25.25	127.24	35.25	65.29
5.50	2676.55	15.50	337.61	25.50	124.76	35.50	64.38
5.75	2449.30	15.75	326.98	25.75	122.35	35.75	63.48
6.00	2249.79	16.00	316.85	26.00	120.01	36.00	62.60
6.25	2073.69	16.25	307.18	26.25	117.73	36.25	61.74
6.50	1917.47	16.50	297.94	26.50	115.52	36.50	60.90
6.75	1778.26	16.75	289.12	26.75	113.37	36.75	60.07
7.00	1653.67	17.00	280.68	27.00	111.28	37.00	59.26
7.25	1541.72	17.25	272.60	27.25	109.25	37.25	58.47
7.50	1440.76	17.50	264.87	27.50	107.27	37.50	57.69
7.75	1349.41	17.75	257.46	27.75	105.35	37.75	56.93
8.00	1266.47	18.00	250.36	28.00	103.48	38.00	56.18
8.25	1190.94	18.25	243.55	28.25	101.65	38.25	55.45
8.50	1121.98	18.50	237.01	28.50	99.88	38.50	54.73
8.75	1058.83	18.75	230.74	28.75	98.15	38.75	54.03
9.00	1000.87	19.00	224.71	29.00	96.46	39.00	53.34
9.25	947.54	19.25	218.91	29.25	94.82	39.25	52.66
9.50	898.36	19.50	213.33	29.50	93.22	39.50	52.00
9.75	852.91	19.75	207.97	29.75	91.66	39.75	51.35
10.00	810.82	20.00	202.80	30.00	90.14	40.00	50.71

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 50%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 11.13 133.58 Inches

BioInitiative ft. 900.00 10800.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	50.08	54.25	27.57	68.25	17.42	82.25	11.99
40.50	49.46	54.50	27.31	68.50	17.29	82.50	11.92
40.75	48.86	54.75	27.07	68.75	17.17	82.75	11.85
41.00	48.26	55.00	26.82	69.00	17.04	83.00	11.78
41.25	47.68	55.25	26.58	69.25	16.92	83.25	11.71
41.50	47.11	55.50	26.34	69.50	16.80	83.50	11.64
41.75	46.54	55.75	26.10	69.75	16.68	83.75	11.57
42.00	45.99	56.00	25.87	70.00	16.56	84.00	11.50
42.25	45.45	56.25	25.64	70.25	16.44	84.25	11.43
42.50	44.92	56.50	25.42	70.50	16.32	84.50	11.36
42.75	44.39	56.75	25.19	70.75	16.21	84.75	11.30
43.00	43.88	57.00	24.97	71.00	16.09	85.00	11.23
43.25	43.37	57.25	24.75	71.25	15.98	85.25	11.16
43.50	42.88	57.50	24.54	71.50	15.87	85.50	11.10
43.75	42.39	57.75	24.33	71.75	15.76	85.75	11.03
44.00	41.91	58.00	24.12	72.00	15.65	86.00	10.97
44.25	41.43	58.25	23.91	72.25	15.54	86.25	10.91
44.50	40.97	58.50	23.71	72.50	15.44	86.50	10.84
44.75	40.51	58.75	23.51	72.75	15.33	86.75	10.78
45.00	40.06	59.00	23.31	73.00	15.22	87.00	10.72
45.25	39.62	59.25	23.11	73.25	15.12	87.25	10.66
45.50	39.19	59.50	22.92	73.50	15.02	87.50	10.60
45.75	38.76	59.75	22.73	73.75	14.92	87.75	10.54
46.00	38.34	60.00	22.54	74.00	14.82	88.00	10.48
46.25	37.93	60.25	22.35	74.25	14.72	88.25	10.42
46.50	37.52	60.50	22.17	74.50	14.62	88.50	10.36
46.75	37.12	60.75	21.98	74.75	14.52	88.75	10.30
47.00	36.73	61.00	21.80	75.00	14.42	89.00	10.24
47.25	36.34	61.25	21.63	75.25	14.33	89.25	10.19
47.50	35.96	61.50	21.45	75.50	14.23	89.50	10.13
47.75	35.58	61.75	21.28	75.75	14.14	89.75	10.07
48.00	35.21	62.00	21.11	76.00	14.05	90.00	10.02
48.25	34.85	62.25	20.94	76.25	13.95	90.25	9.96
48.50	34.49	62.50	20.77	76.50	13.86	90.50	9.91
48.75	34.14	62.75	20.60	76.75	13.77	90.75	9.85
49.00	33.79	63.00	20.44	77.00	13.68	91.00	9.80
49.25	33.45	63.25	20.28	77.25	13.60	91.25	9.74
49.50	33.11	63.50	20.12	77.50	13.51	91.50	9.69
49.75	32.78	63.75	19.96	77.75	13.42	91.75	9.64
50.00	32.45	64.00	19.81	78.00	13.34	92.00	9.59
50.25	32.13	64.25	19.65	78.25	13.25	92.25	9.53
50.50	31.81	64.50	19.50	78.50	13.17	92.50	9.48
50.75	31.50	64.75	19.35	78.75	13.08	92.75	9.43
51.00	31.19	65.00	19.20	79.00	13.00	93.00	9.38
51.25	30.89	65.25	19.06	79.25	12.92	93.25	9.33
51.50	30.59	65.50	18.91	79.50	12.84	93.50	9.28
51.75	30.29	65.75	18.77	79.75	12.76	93.75	9.23
52.00	30.00	66.00	18.63	80.00	12.68	94.00	9.18
52.25	29.72	66.25	18.49	80.25	12.60	94.25	9.13
52.50	29.44	66.50	18.35	80.50	12.52	94.50	9.09
52.75	29.16	66.75	18.21	80.75	12.44	94.75	9.04
53.00	28.88	67.00	18.07	81.00	12.37	95.00	8.99
53.25	28.61	67.25	17.94	81.25	12.29	95.25	8.94
53.50	28.35	67.50	17.81	81.50	12.21	95.50	8.90
53.75	28.08	67.75	17.68	81.75	12.14	95.75	8.85
54.00	27.82	68.00	17.55	82.00	12.07	96.00	8.80

Table 8 – 50%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 60%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 12.19 146.3 Inches

BioInitiative ft. 985.00 11820.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	778876.88	10.25	926.13	20.25	237.39	30.25	106.39
0.50	311550.75	10.50	882.58	20.50	231.64	30.50	104.65
0.75	155775.38	10.75	842.03	20.75	226.09	30.75	102.96
1.00	91632.57	11.00	804.21	21.00	220.74	31.00	101.30
1.25	59913.61	11.25	768.88	21.25	215.58	31.25	99.69
1.50	42101.45	11.50	735.83	21.50	210.59	31.50	98.11
1.75	31155.08	11.75	704.87	21.75	205.78	31.75	96.57
2.00	23965.44	12.00	675.82	22.00	201.13	32.00	95.07
2.25	18997.00	12.25	648.52	22.25	196.64	32.25	93.60
2.50	15423.30	12.50	622.85	22.50	192.29	32.50	92.17
2.75	12768.47	12.75	598.68	22.75	188.09	32.75	90.77
3.00	10743.13	13.00	575.88	23.00	184.02	33.00	89.40
3.25	9163.26	13.25	554.36	23.25	180.09	33.25	88.06
3.50	7907.38	13.50	534.03	23.50	176.28	33.50	86.75
3.75	6892.72	13.75	514.79	23.75	172.59	33.75	85.47
4.00	6061.30	14.00	496.57	24.00	169.01	34.00	84.22
4.25	5371.56	14.25	479.31	24.25	165.54	34.25	82.99
4.50	4793.09	14.50	462.93	24.50	162.18	34.50	81.79
4.75	4303.19	14.75	447.37	24.75	158.92	34.75	80.62
5.00	3884.67	15.00	432.59	25.00	155.76	35.00	79.47
5.25	3524.33	15.25	418.53	25.25	152.69	35.25	78.35
5.50	3211.86	15.50	405.14	25.50	149.71	35.50	77.25
5.75	2939.16	15.75	392.38	25.75	146.82	35.75	76.17
6.00	2699.75	16.00	380.22	26.00	144.01	36.00	75.12
6.25	2488.42	16.25	368.61	26.25	141.28	36.25	74.09
6.50	2300.97	16.50	357.53	26.50	138.63	36.50	73.08
6.75	2133.91	16.75	346.94	26.75	136.05	36.75	72.08
7.00	1984.40	17.00	336.81	27.00	133.54	37.00	71.11
7.25	1850.06	17.25	327.12	27.25	131.10	37.25	70.16
7.50	1728.92	17.50	317.84	27.50	128.73	37.50	69.23
7.75	1619.29	17.75	308.96	27.75	126.42	37.75	68.32
8.00	1519.76	18.00	300.43	28.00	124.17	38.00	67.42
8.25	1429.13	18.25	292.26	28.25	121.99	38.25	66.54
8.50	1346.37	18.50	284.42	28.50	119.85	38.50	65.68
8.75	1270.60	18.75	276.88	28.75	117.78	38.75	64.84
9.00	1201.04	19.00	269.65	29.00	115.76	39.00	64.01
9.25	1137.05	19.25	262.69	29.25	113.79	39.25	63.19
9.50	1078.03	19.50	256.00	29.50	111.87	39.50	62.40
9.75	1023.49	19.75	249.56	29.75	110.00	39.75	61.62
10.00	972.99	20.00	243.36	30.00	108.17	40.00	60.85

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi R^2)$$

$$S = \text{Power Density uW/cm}^2$$

$$\text{EIRP} = 1.64 \cdot \text{ERP}$$

$$\pi() = 3.1459$$

$$R = \text{Distance to device}$$

$$\text{TA} = \text{Time average}$$

$$\% \text{Ref} = \text{Percent reflections}$$
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 60%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 12.19 146.33 Inches

BioInitiative ft. 985.00 11820.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	60.09	54.25	33.08	68.25	20.90	82.25	14.39
40.50	59.35	54.50	32.78	68.50	20.75	82.50	14.30
40.75	58.63	54.75	32.48	68.75	20.60	82.75	14.22
41.00	57.92	55.00	32.18	69.00	20.45	83.00	14.13
41.25	57.22	55.25	31.89	69.25	20.30	83.25	14.05
41.50	56.53	55.50	31.61	69.50	20.16	83.50	13.96
41.75	55.85	55.75	31.32	69.75	20.01	83.75	13.88
42.00	55.19	56.00	31.05	70.00	19.87	84.00	13.80
42.25	54.54	56.25	30.77	70.25	19.73	84.25	13.72
42.50	53.90	56.50	30.50	70.50	19.59	84.50	13.64
42.75	53.27	56.75	30.23	70.75	19.45	84.75	13.55
43.00	52.65	57.00	29.97	71.00	19.31	85.00	13.48
43.25	52.05	57.25	29.70	71.25	19.18	85.25	13.40
43.50	51.45	57.50	29.45	71.50	19.04	85.50	13.32
43.75	50.86	57.75	29.19	71.75	18.91	85.75	13.24
44.00	50.29	58.00	28.94	72.00	18.78	86.00	13.16
44.25	49.72	58.25	28.69	72.25	18.65	86.25	13.09
44.50	49.16	58.50	28.45	72.50	18.52	86.50	13.01
44.75	48.62	58.75	28.21	72.75	18.40	86.75	12.94
45.00	48.08	59.00	27.97	73.00	18.27	87.00	12.86
45.25	47.55	59.25	27.73	73.25	18.15	87.25	12.79
45.50	47.03	59.50	27.50	73.50	18.02	87.50	12.72
45.75	46.51	59.75	27.27	73.75	17.90	87.75	12.64
46.00	46.01	60.00	27.04	74.00	17.78	88.00	12.57
46.25	45.51	60.25	26.82	74.25	17.66	88.25	12.50
46.50	45.03	60.50	26.60	74.50	17.54	88.50	12.43
46.75	44.55	60.75	26.38	74.75	17.42	88.75	12.36
47.00	44.07	61.00	26.16	75.00	17.31	89.00	12.29
47.25	43.61	61.25	25.95	75.25	17.19	89.25	12.22
47.50	43.15	61.50	25.74	75.50	17.08	89.50	12.15
47.75	42.70	61.75	25.53	75.75	16.97	89.75	12.09
48.00	42.26	62.00	25.33	76.00	16.86	90.00	12.02
48.25	41.82	62.25	25.12	76.25	16.75	90.25	11.95
48.50	41.39	62.50	24.92	76.50	16.64	90.50	11.89
48.75	40.97	62.75	24.73	76.75	16.53	90.75	11.82
49.00	40.55	63.00	24.53	77.00	16.42	91.00	11.76
49.25	40.14	63.25	24.34	77.25	16.31	91.25	11.69
49.50	39.73	63.50	24.14	77.50	16.21	91.50	11.63
49.75	39.34	63.75	23.96	77.75	16.11	91.75	11.57
50.00	38.94	64.00	23.77	78.00	16.00	92.00	11.50
50.25	38.56	64.25	23.58	78.25	15.90	92.25	11.44
50.50	38.18	64.50	23.40	78.50	15.80	92.50	11.38
50.75	37.80	64.75	23.22	78.75	15.70	92.75	11.32
51.00	37.43	65.00	23.04	79.00	15.60	93.00	11.26
51.25	37.07	65.25	22.87	79.25	15.50	93.25	11.20
51.50	36.71	65.50	22.69	79.50	15.40	93.50	11.14
51.75	36.35	65.75	22.52	79.75	15.31	93.75	11.08
52.00	36.00	66.00	22.35	80.00	15.21	94.00	11.02
52.25	35.66	66.25	22.18	80.25	15.12	94.25	10.96
52.50	35.32	66.50	22.02	80.50	15.02	94.50	10.90
52.75	34.99	66.75	21.85	80.75	14.93	94.75	10.84
53.00	34.66	67.00	21.69	81.00	14.84	95.00	10.79
53.25	34.33	67.25	21.53	81.25	14.75	95.25	10.73
53.50	34.01	67.50	21.37	81.50	14.66	95.50	10.68
53.75	33.70	67.75	21.21	81.75	14.57	95.75	10.62
54.00	33.39	68.00	21.05	82.00	14.48	96.00	10.56

Table 8 – 60%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 70%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 13.17 158.1 Inches

BioInitiative ft. 1065.00 12780.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	908689.70	10.25	1080.49	20.25	276.96	30.25	124.12
0.50	363475.88	10.50	1029.68	20.50	270.24	30.50	122.09
0.75	181737.94	10.75	982.37	20.75	263.77	30.75	120.12
1.00	106904.67	11.00	938.24	21.00	257.53	31.00	118.19
1.25	69899.21	11.25	897.03	21.25	251.51	31.25	116.30
1.50	49118.36	11.50	858.47	21.50	245.69	31.50	114.47
1.75	36347.59	11.75	822.34	21.75	240.08	31.75	112.67
2.00	27959.68	12.00	788.45	22.00	234.65	32.00	110.92
2.25	22163.16	12.25	756.61	22.25	229.41	32.25	109.20
2.50	17993.86	12.50	726.66	22.50	224.34	32.50	107.53
2.75	14896.55	12.75	698.45	22.75	219.44	32.75	105.90
3.00	12533.65	13.00	671.86	23.00	214.69	33.00	104.30
3.25	10690.47	13.25	646.75	23.25	210.10	33.25	102.73
3.50	9225.28	13.50	623.03	23.50	205.66	33.50	101.21
3.75	8041.50	13.75	600.59	23.75	201.35	33.75	99.71
4.00	7071.52	14.00	579.34	24.00	197.18	34.00	98.25
4.25	6266.83	14.25	559.19	24.25	193.13	34.25	96.82
4.50	5591.94	14.50	540.08	24.50	189.21	34.50	95.43
4.75	5020.39	14.75	521.94	24.75	185.41	34.75	94.06
5.00	4532.12	15.00	504.69	25.00	181.72	35.00	92.72
5.25	4111.72	15.25	488.28	25.25	178.14	35.25	91.41
5.50	3747.17	15.50	472.66	25.50	174.66	35.50	90.13
5.75	3429.02	15.75	457.78	25.75	171.29	35.75	88.87
6.00	3149.70	16.00	443.59	26.00	168.01	36.00	87.64
6.25	2903.16	16.25	430.05	26.25	164.83	36.25	86.43
6.50	2684.46	16.50	417.12	26.50	161.73	36.50	85.25
6.75	2489.56	16.75	404.76	26.75	158.72	36.75	84.10
7.00	2315.13	17.00	392.95	27.00	155.80	37.00	82.97
7.25	2158.41	17.25	381.64	27.25	152.95	37.25	81.86
7.50	2017.07	17.50	370.82	27.50	150.18	37.50	80.77
7.75	1889.17	17.75	360.45	27.75	147.49	37.75	79.70
8.00	1773.05	18.00	350.51	28.00	144.87	38.00	78.66
8.25	1667.32	18.25	340.97	28.25	142.32	38.25	77.63
8.50	1570.77	18.50	331.82	28.50	139.83	38.50	76.63
8.75	1482.36	18.75	323.03	28.75	137.41	38.75	75.64
9.00	1401.22	19.00	314.59	29.00	135.05	39.00	74.68
9.25	1326.55	19.25	306.47	29.25	132.75	39.25	73.73
9.50	1257.70	19.50	298.67	29.50	130.51	39.50	72.80
9.75	1194.07	19.75	291.15	29.75	128.33	39.75	71.88
10.00	1135.15	20.00	283.92	30.00	126.20	40.00	70.99

Notes:

- 1) Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 2) 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 3) 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- 4) Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- 5) TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- 6) Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 70%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 13.17 158.06 Inches

BioInitiative ft. 1065.00

12780.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	70.11	54.25	38.59	68.25	24.38	82.25	16.79
40.50	69.25	54.50	38.24	68.50	24.21	82.50	16.69
40.75	68.40	54.75	37.89	68.75	24.03	82.75	16.59
41.00	67.57	55.00	37.55	69.00	23.86	83.00	16.49
41.25	66.75	55.25	37.21	69.25	23.69	83.25	16.39
41.50	65.95	55.50	36.87	69.50	23.52	83.50	16.29
41.75	65.16	55.75	36.54	69.75	23.35	83.75	16.19
42.00	64.39	56.00	36.22	70.00	23.18	84.00	16.10
42.25	63.63	56.25	35.90	70.25	23.02	84.25	16.00
42.50	62.88	56.50	35.58	70.50	22.85	84.50	15.91
42.75	62.15	56.75	35.27	70.75	22.69	84.75	15.81
43.00	61.43	57.00	34.96	71.00	22.53	85.00	15.72
43.25	60.72	57.25	34.66	71.25	22.37	85.25	15.63
43.50	60.03	57.50	34.35	71.50	22.22	85.50	15.54
43.75	59.34	57.75	34.06	71.75	22.06	85.75	15.45
44.00	58.67	58.00	33.76	72.00	21.91	86.00	15.36
44.25	58.01	58.25	33.48	72.25	21.76	86.25	15.27
44.50	57.36	58.50	33.19	72.50	21.61	86.50	15.18
44.75	56.72	58.75	32.91	72.75	21.46	86.75	15.09
45.00	56.09	59.00	32.63	73.00	21.31	87.00	15.01
45.25	55.47	59.25	32.35	73.25	21.17	87.25	14.92
45.50	54.86	59.50	32.08	73.50	21.03	87.50	14.84
45.75	54.27	59.75	31.82	73.75	20.88	87.75	14.75
46.00	53.68	60.00	31.55	74.00	20.74	88.00	14.67
46.25	53.10	60.25	31.29	74.25	20.60	88.25	14.58
46.50	52.53	60.50	31.03	74.50	20.46	88.50	14.50
46.75	51.97	60.75	30.78	74.75	20.33	88.75	14.42
47.00	51.42	61.00	30.53	75.00	20.19	89.00	14.34
47.25	50.88	61.25	30.28	75.25	20.06	89.25	14.26
47.50	50.34	61.50	30.03	75.50	19.93	89.50	14.18
47.75	49.82	61.75	29.79	75.75	19.80	89.75	14.10
48.00	49.30	62.00	29.55	76.00	19.66	90.00	14.02
48.25	48.79	62.25	29.31	76.25	19.54	90.25	13.95
48.50	48.29	62.50	29.08	76.50	19.41	90.50	13.87
48.75	47.79	62.75	28.85	76.75	19.28	90.75	13.79
49.00	47.31	63.00	28.62	77.00	19.16	91.00	13.72
49.25	46.83	63.25	28.39	77.25	19.03	91.25	13.64
49.50	46.36	63.50	28.17	77.50	18.91	91.50	13.57
49.75	45.89	63.75	27.95	77.75	18.79	91.75	13.49
50.00	45.43	64.00	27.73	78.00	18.67	92.00	13.42
50.25	44.98	64.25	27.52	78.25	18.55	92.25	13.35
50.50	44.54	64.50	27.30	78.50	18.43	92.50	13.28
50.75	44.10	64.75	27.09	78.75	18.32	92.75	13.20
51.00	43.67	65.00	26.88	79.00	18.20	93.00	13.13
51.25	43.24	65.25	26.68	79.25	18.09	93.25	13.06
51.50	42.83	65.50	26.48	79.50	17.97	93.50	12.99
51.75	42.41	65.75	26.27	79.75	17.86	93.75	12.92
52.00	42.01	66.00	26.08	80.00	17.75	94.00	12.85
52.25	41.60	66.25	25.88	80.25	17.64	94.25	12.79
52.50	41.21	66.50	25.68	80.50	17.53	94.50	12.72
52.75	40.82	66.75	25.49	80.75	17.42	94.75	12.65
53.00	40.44	67.00	25.30	81.00	17.31	95.00	12.59
53.25	40.06	67.25	25.12	81.25	17.21	95.25	12.52
53.50	39.68	67.50	24.93	81.50	17.10	95.50	12.45
53.75	39.32	67.75	24.75	81.75	17.00	95.75	12.39
54.00	38.95	68.00	24.56	82.00	16.89	96.00	12.32

Table 8 – 70%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 80%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 14.08 169.0 Inches

BioInitiative ft. 1140.00 13680.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1038502.51	10.25	1234.84	20.25	316.52	30.25	141.85
0.50	415401.00	10.50	1176.77	20.50	308.85	30.50	139.54
0.75	207700.50	10.75	1122.71	20.75	301.45	30.75	137.28
1.00	122176.77	11.00	1072.28	21.00	294.32	31.00	135.07
1.25	79884.81	11.25	1025.18	21.25	287.43	31.25	132.92
1.50	56135.27	11.50	981.11	21.50	280.79	31.50	130.82
1.75	41540.10	11.75	939.82	21.75	274.37	31.75	128.77
2.00	31953.92	12.00	901.09	22.00	268.17	32.00	126.76
2.25	25329.33	12.25	864.70	22.25	262.18	32.25	124.81
2.50	20564.41	12.50	830.47	22.50	256.39	32.50	122.89
2.75	17024.63	12.75	798.23	22.75	250.79	32.75	121.02
3.00	14324.17	13.00	767.84	23.00	245.36	33.00	119.20
3.25	12217.68	13.25	739.15	23.25	240.12	33.25	117.41
3.50	10543.17	13.50	712.03	23.50	235.04	33.50	115.67
3.75	9190.29	13.75	686.39	23.75	230.11	33.75	113.96
4.00	8081.73	14.00	662.10	24.00	225.35	34.00	112.29
4.25	7162.09	14.25	639.08	24.25	220.72	34.25	110.66
4.50	6390.78	14.50	617.24	24.50	216.24	34.50	109.06
4.75	5737.58	14.75	596.50	24.75	211.90	34.75	107.49
5.00	5179.56	15.00	576.79	25.00	207.68	35.00	105.96
5.25	4699.11	15.25	558.03	25.25	203.59	35.25	104.47
5.50	4282.48	15.50	540.18	25.50	199.62	35.50	103.00
5.75	3918.88	15.75	523.18	25.75	195.76	35.75	101.57
6.00	3599.66	16.00	506.96	26.00	192.01	36.00	100.16
6.25	3317.90	16.25	491.48	26.25	188.37	36.25	98.78
6.50	3067.95	16.50	476.71	26.50	184.84	36.50	97.43
6.75	2845.21	16.75	462.58	26.75	181.40	36.75	96.11
7.00	2645.87	17.00	449.08	27.00	178.05	37.00	94.82
7.25	2466.75	17.25	436.16	27.25	174.80	37.25	93.55
7.50	2305.22	17.50	423.79	27.50	171.64	37.50	92.31
7.75	2159.05	17.75	411.94	27.75	168.56	37.75	91.09
8.00	2026.35	18.00	400.58	28.00	165.56	38.00	89.89
8.25	1905.51	18.25	389.68	28.25	162.65	38.25	88.72
8.50	1795.16	18.50	379.22	28.50	159.81	38.50	87.57
8.75	1694.13	18.75	369.18	28.75	157.04	38.75	86.45
9.00	1601.39	19.00	359.53	29.00	154.34	39.00	85.34
9.25	1516.06	19.25	350.25	29.25	151.72	39.25	84.26
9.50	1437.37	19.50	341.33	29.50	149.16	39.50	83.20
9.75	1364.66	19.75	332.75	29.75	146.66	39.75	82.15
10.00	1297.32	20.00	324.48	30.00	144.23	40.00	81.13

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections
 $S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$
 S = Power Density uW/cm²
 EIRP = 1.64 * ERP
 pi() = 3.1459
 R = Distance to device
 TA = Time average
 %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 80%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 14.08

168.98 Inches

BioInitiative ft. 1140.00

13680.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	80.13	54.25	44.11	68.25	27.87	82.25	19.19
40.50	79.14	54.50	43.70	68.50	27.66	82.50	19.07
40.75	78.17	54.75	43.31	68.75	27.46	82.75	18.96
41.00	77.22	55.00	42.91	69.00	27.27	83.00	18.84
41.25	76.29	55.25	42.52	69.25	27.07	83.25	18.73
41.50	75.37	55.50	42.14	69.50	26.87	83.50	18.62
41.75	74.47	55.75	41.77	69.75	26.68	83.75	18.51
42.00	73.59	56.00	41.39	70.00	26.49	84.00	18.40
42.25	72.72	56.25	41.03	70.25	26.30	84.25	18.29
42.50	71.87	56.50	40.66	70.50	26.12	84.50	18.18
42.75	71.03	56.75	40.31	70.75	25.93	84.75	18.07
43.00	70.20	57.00	39.95	71.00	25.75	85.00	17.97
43.25	69.40	57.25	39.61	71.25	25.57	85.25	17.86
43.50	68.60	57.50	39.26	71.50	25.39	85.50	17.76
43.75	67.82	57.75	38.92	71.75	25.22	85.75	17.65
44.00	67.05	58.00	38.59	72.00	25.04	86.00	17.55
44.25	66.29	58.25	38.26	72.25	24.87	86.25	17.45
44.50	65.55	58.50	37.93	72.50	24.70	86.50	17.35
44.75	64.82	58.75	37.61	72.75	24.53	86.75	17.25
45.00	64.10	59.00	37.29	73.00	24.36	87.00	17.15
45.25	63.40	59.25	36.98	73.25	24.19	87.25	17.05
45.50	62.70	59.50	36.67	73.50	24.03	87.50	16.96
45.75	62.02	59.75	36.36	73.75	23.87	87.75	16.86
46.00	61.35	60.00	36.06	74.00	23.71	88.00	16.76
46.25	60.69	60.25	35.76	74.25	23.55	88.25	16.67
46.50	60.03	60.50	35.46	74.50	23.39	88.50	16.57
46.75	59.39	60.75	35.17	74.75	23.23	88.75	16.48
47.00	58.76	61.00	34.89	75.00	23.08	89.00	16.39
47.25	58.14	61.25	34.60	75.25	22.92	89.25	16.30
47.50	57.53	61.50	34.32	75.50	22.77	89.50	16.21
47.75	56.93	61.75	34.04	75.75	22.62	89.75	16.12
48.00	56.34	62.00	33.77	76.00	22.47	90.00	16.03
48.25	55.76	62.25	33.50	76.25	22.33	90.25	15.94
48.50	55.19	62.50	33.23	76.50	22.18	90.50	15.85
48.75	54.62	62.75	32.97	76.75	22.04	90.75	15.76
49.00	54.06	63.00	32.71	77.00	21.89	91.00	15.68
49.25	53.52	63.25	32.45	77.25	21.75	91.25	15.59
49.50	52.98	63.50	32.19	77.50	21.61	91.50	15.51
49.75	52.45	63.75	31.94	77.75	21.47	91.75	15.42
50.00	51.92	64.00	31.69	78.00	21.34	92.00	15.34
50.25	51.41	64.25	31.45	78.25	21.20	92.25	15.25
50.50	50.90	64.50	31.20	78.50	21.07	92.50	15.17
50.75	50.40	64.75	30.96	78.75	20.93	92.75	15.09
51.00	49.91	65.00	30.72	79.00	20.80	93.00	15.01
51.25	49.42	65.25	30.49	79.25	20.67	93.25	14.93
51.50	48.94	65.50	30.26	79.50	20.54	93.50	14.85
51.75	48.47	65.75	30.03	79.75	20.41	93.75	14.77
52.00	48.01	66.00	29.80	80.00	20.28	94.00	14.69
52.25	47.55	66.25	29.58	80.25	20.16	94.25	14.61
52.50	47.10	66.50	29.35	80.50	20.03	94.50	14.54
52.75	46.65	66.75	29.13	80.75	19.91	94.75	14.46
53.00	46.21	67.00	28.92	81.00	19.79	95.00	14.38
53.25	45.78	67.25	28.70	81.25	19.66	95.25	14.31
53.50	45.35	67.50	28.49	81.50	19.54	95.50	14.23
53.75	44.93	67.75	28.28	81.75	19.42	95.75	14.16
54.00	44.52	68.00	28.07	82.00	19.31	96.00	14.09

Table 8 – 80%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 90%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 14.94 179.2 Inches

BioInitiative ft. 1210.00 14520.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1168315.33	10.25	1389.20	20.25	356.09	30.25	159.58
0.50	467326.13	10.50	1323.87	20.50	347.45	30.50	156.98
0.75	233663.07	10.75	1263.04	20.75	339.13	30.75	154.44
1.00	137448.86	11.00	1206.31	21.00	331.11	31.00	151.96
1.25	89870.41	11.25	1153.32	21.25	323.36	31.25	149.53
1.50	63152.18	11.50	1103.75	21.50	315.89	31.50	147.17
1.75	46732.61	11.75	1057.30	21.75	308.67	31.75	144.86
2.00	35948.16	12.00	1013.72	22.00	301.70	32.00	142.61
2.25	28495.50	12.25	972.79	22.25	294.95	32.25	140.41
2.50	23134.96	12.50	934.28	22.50	288.44	32.50	138.25
2.75	19152.71	12.75	898.01	22.75	282.13	32.75	136.15
3.00	16114.69	13.00	863.82	23.00	276.03	33.00	134.10
3.25	13744.89	13.25	831.54	23.25	270.13	33.25	132.09
3.50	11861.07	13.50	801.04	23.50	264.41	33.50	130.12
3.75	10339.07	13.75	772.18	23.75	258.88	33.75	128.20
4.00	9091.95	14.00	744.86	24.00	253.51	34.00	126.32
4.25	8057.35	14.25	718.96	24.25	248.31	34.25	124.49
4.50	7189.63	14.50	694.39	24.50	243.27	34.50	122.69
4.75	6454.78	14.75	671.06	24.75	238.38	34.75	120.93
5.00	5827.01	15.00	648.88	25.00	233.64	35.00	119.21
5.25	5286.49	15.25	627.79	25.25	229.04	35.25	117.52
5.50	4817.80	15.50	607.71	25.50	224.57	35.50	115.88
5.75	4408.74	15.75	588.57	25.75	220.23	35.75	114.26
6.00	4049.62	16.00	570.33	26.00	216.01	36.00	112.68
6.25	3732.64	16.25	552.92	26.25	211.92	36.25	111.13
6.50	3451.45	16.50	536.29	26.50	207.94	36.50	109.61
6.75	3200.86	16.75	520.41	26.75	204.07	36.75	108.13
7.00	2976.60	17.00	505.22	27.00	200.31	37.00	106.67
7.25	2775.10	17.25	490.68	27.25	196.65	37.25	105.24
7.50	2593.37	17.50	476.77	27.50	193.09	37.50	103.85
7.75	2428.93	17.75	463.43	27.75	189.63	37.75	102.47
8.00	2279.64	18.00	450.65	28.00	186.26	38.00	101.13
8.25	2143.70	18.25	438.39	28.25	182.98	38.25	99.81
8.50	2019.56	18.50	426.63	28.50	179.78	38.50	98.52
8.75	1905.90	18.75	415.33	28.75	176.67	38.75	97.25
9.00	1801.57	19.00	404.47	29.00	173.64	39.00	96.01
9.25	1705.57	19.25	394.04	29.25	170.68	39.25	94.79
9.50	1617.05	19.50	384.00	29.50	167.80	39.50	93.60
9.75	1535.24	19.75	374.34	29.75	164.99	39.75	92.42
10.00	1459.48	20.00	365.04	30.00	162.25	40.00	91.27

Notes:

- Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
 - TA = Time average
 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
- 100 percent reflections is equivalent to OET Bulletin 65 equation (6)
- Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010
- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
- Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 90%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 14.94 179.23 Inches

BioInitiative ft. 1210.00 14520.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	90.14	54.25	49.62	68.25	31.35	82.25	21.59
40.50	89.03	54.50	49.17	68.50	31.12	82.50	21.46
40.75	87.94	54.75	48.72	68.75	30.90	82.75	21.33
41.00	86.87	55.00	48.28	69.00	30.67	83.00	21.20
41.25	85.82	55.25	47.84	69.25	30.45	83.25	21.07
41.50	84.79	55.50	47.41	69.50	30.23	83.50	20.95
41.75	83.78	55.75	46.99	69.75	30.02	83.75	20.82
42.00	82.79	56.00	46.57	70.00	29.80	84.00	20.70
42.25	81.81	56.25	46.15	70.25	29.59	84.25	20.57
42.50	80.85	56.50	45.75	70.50	29.38	84.50	20.45
42.75	79.91	56.75	45.35	70.75	29.18	84.75	20.33
43.00	78.98	57.00	44.95	71.00	28.97	85.00	20.21
43.25	78.07	57.25	44.56	71.25	28.77	85.25	20.09
43.50	77.18	57.50	44.17	71.50	28.57	85.50	19.98
43.75	76.30	57.75	43.79	71.75	28.37	85.75	19.86
44.00	75.43	58.00	43.41	72.00	28.17	86.00	19.75
44.25	74.58	58.25	43.04	72.25	27.98	86.25	19.63
44.50	73.75	58.50	42.67	72.50	27.78	86.50	19.52
44.75	72.92	58.75	42.31	72.75	27.59	86.75	19.41
45.00	72.12	59.00	41.95	73.00	27.40	87.00	19.29
45.25	71.32	59.25	41.60	73.25	27.22	87.25	19.18
45.50	70.54	59.50	41.25	73.50	27.03	87.50	19.07
45.75	69.77	59.75	40.91	73.75	26.85	87.75	18.97
46.00	69.01	60.00	40.57	74.00	26.67	88.00	18.86
46.25	68.27	60.25	40.23	74.25	26.49	88.25	18.75
46.50	67.54	60.50	39.90	74.50	26.31	88.50	18.65
46.75	66.82	60.75	39.57	74.75	26.14	88.75	18.54
47.00	66.11	61.00	39.25	75.00	25.96	89.00	18.44
47.25	65.41	61.25	38.93	75.25	25.79	89.25	18.33
47.50	64.72	61.50	38.61	75.50	25.62	89.50	18.23
47.75	64.05	61.75	38.30	75.75	25.45	89.75	18.13
48.00	63.38	62.00	37.99	76.00	25.28	90.00	18.03
48.25	62.73	62.25	37.69	76.25	25.12	90.25	17.93
48.50	62.08	62.50	37.39	76.50	24.95	90.50	17.83
48.75	61.45	62.75	37.09	76.75	24.79	90.75	17.73
49.00	60.82	63.00	36.79	77.00	24.63	91.00	17.64
49.25	60.21	63.25	36.50	77.25	24.47	91.25	17.54
49.50	59.60	63.50	36.22	77.50	24.31	91.50	17.44
49.75	59.00	63.75	35.93	77.75	24.16	91.75	17.35
50.00	58.41	64.00	35.65	78.00	24.00	92.00	17.25
50.25	57.83	64.25	35.38	78.25	23.85	92.25	17.16
50.50	57.26	64.50	35.10	78.50	23.70	92.50	17.07
50.75	56.70	64.75	34.83	78.75	23.55	92.75	16.98
51.00	56.15	65.00	34.57	79.00	23.40	93.00	16.88
51.25	55.60	65.25	34.30	79.25	23.25	93.25	16.79
51.50	55.06	65.50	34.04	79.50	23.11	93.50	16.70
51.75	54.53	65.75	33.78	79.75	22.96	93.75	16.62
52.00	54.01	66.00	33.53	80.00	22.82	94.00	16.53
52.25	53.49	66.25	33.27	80.25	22.68	94.25	16.44
52.50	52.98	66.50	33.02	80.50	22.54	94.50	16.35
52.75	52.48	66.75	32.78	80.75	22.40	94.75	16.27
53.00	51.99	67.00	32.53	81.00	22.26	95.00	16.18
53.25	51.50	67.25	32.29	81.25	22.12	95.25	16.10
53.50	51.02	67.50	32.05	81.50	21.99	95.50	16.01
53.75	50.55	67.75	31.82	81.75	21.85	95.75	15.93
54.00	50.08	68.00	31.58	82.00	21.72	96.00	15.85

Table 8 – 90%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 100% % Reflection 2000%

Distance where limits are exceeded

FCC ft. 15.74 188.9 Inches

BioInitiative ft. 1275.00 15300.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1298128.14	10.25	1543.55	20.25	395.65	30.25	177.32
0.50	519251.26	10.50	1470.97	20.50	386.06	30.50	174.42
0.75	259625.63	10.75	1403.38	20.75	376.82	30.75	171.60
1.00	152720.96	11.00	1340.35	21.00	367.90	31.00	168.84
1.25	99856.01	11.25	1281.47	21.25	359.29	31.25	166.15
1.50	70169.09	11.50	1226.38	21.50	350.99	31.50	163.52
1.75	51925.13	11.75	1174.78	21.75	342.97	31.75	160.96
2.00	39942.40	12.00	1126.36	22.00	335.22	32.00	158.45
2.25	31661.66	12.25	1080.87	22.25	327.73	32.25	156.01
2.50	25705.51	12.50	1038.09	22.50	320.49	32.50	153.62
2.75	21280.79	12.75	997.79	22.75	313.48	32.75	151.28
3.00	17905.22	13.00	959.80	23.00	306.70	33.00	149.00
3.25	15272.10	13.25	923.93	23.25	300.15	33.25	146.76
3.50	13178.97	13.50	890.04	23.50	293.79	33.50	144.58
3.75	11487.86	13.75	857.98	23.75	287.64	33.75	142.45
4.00	10102.16	14.00	827.62	24.00	281.68	34.00	140.36
4.25	8952.61	14.25	798.85	24.25	275.90	34.25	138.32
4.50	7988.48	14.50	771.55	24.50	270.30	34.50	136.32
4.75	7171.98	14.75	745.62	24.75	264.87	34.75	134.37
5.00	6474.45	15.00	720.98	25.00	259.60	35.00	132.46
5.25	5873.88	15.25	697.54	25.25	254.49	35.25	130.58
5.50	5353.11	15.50	675.23	25.50	249.52	35.50	128.75
5.75	4898.60	15.75	653.97	25.75	244.70	35.75	126.96
6.00	4499.58	16.00	633.70	26.00	240.02	36.00	125.20
6.25	4147.37	16.25	614.35	26.25	235.47	36.25	123.48
6.50	3834.94	16.50	595.88	26.50	231.05	36.50	121.79
6.75	3556.52	16.75	578.23	26.75	226.75	36.75	120.14
7.00	3307.33	17.00	561.35	27.00	222.57	37.00	118.52
7.25	3083.44	17.25	545.20	27.25	218.50	37.25	116.94
7.50	2881.53	17.50	529.74	27.50	214.55	37.50	115.38
7.75	2698.81	17.75	514.93	27.75	210.70	37.75	113.86
8.00	2532.93	18.00	500.72	28.00	206.96	38.00	112.37
8.25	2381.89	18.25	487.10	28.25	203.31	38.25	110.90
8.50	2243.96	18.50	474.03	28.50	199.76	38.50	109.47
8.75	2117.66	18.75	461.47	28.75	196.30	38.75	108.06
9.00	2001.74	19.00	449.41	29.00	192.93	39.00	106.68
9.25	1895.08	19.25	437.82	29.25	189.65	39.25	105.32
9.50	1796.72	19.50	426.66	29.50	186.45	39.50	104.00
9.75	1705.82	19.75	415.93	29.75	183.33	39.75	102.69
10.00	1621.65	20.00	405.60	30.00	180.28	40.00	101.41

Notes:

1) Formula OET Bulletin 65 equation (3) modified to include the effects of time averaged output and % reflections

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi(R)^2)$$

$$S = \text{Power Density uW/cm}^2$$

$$\text{EIRP} = 1.64 \cdot \text{ERP}$$

$$\pi() = 3.1459$$

$$R = \text{Distance to device}$$

$$\text{TA} = \text{Time average}$$

$$\% \text{Ref} = \text{Percent reflections}$$

2) 60 percent reflections is equivalent to OET Bulletin 65 equation (10)

3) 100 percent reflections is equivalent to OET Bulletin 65 equation (6)

4) Collector meter ERP RFLAN-C = 0.189 W, ZigBee = 0.057 W, GSM = 0.733 W per Edison SmartConnect Community Meeting, Montecito, CA dated February 10, 2010

5) TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)

6) Antenna Gain 2.2dBi at 914.74 MHz per ACS Certification FCC ID: SK9AMI-4 RFLAN & RFLAN-E ERP = 0.270 W

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 2000% reflections)

Meters 8 Electric SMART Meters

Time Avg: 100%

% Reflection 2000%

Distance where limits are exceeded

FCC ft. 15.74 188.93 Inches

BioInitiative ft. 1275.00 15300.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	100.16	54.25	55.13	68.25	34.84	82.25	23.99
40.50	98.92	54.50	54.63	68.50	34.58	82.50	23.84
40.75	97.71	54.75	54.13	68.75	34.33	82.75	23.70
41.00	96.53	55.00	53.64	69.00	34.08	83.00	23.55
41.25	95.36	55.25	53.16	69.25	33.84	83.25	23.41
41.50	94.21	55.50	52.68	69.50	33.59	83.50	23.27
41.75	93.09	55.75	52.21	69.75	33.35	83.75	23.13
42.00	91.98	56.00	51.74	70.00	33.12	84.00	23.00
42.25	90.90	56.25	51.28	70.25	32.88	84.25	22.86
42.50	89.83	56.50	50.83	70.50	32.65	84.50	22.73
42.75	88.79	56.75	50.38	70.75	32.42	84.75	22.59
43.00	87.76	57.00	49.94	71.00	32.19	85.00	22.46
43.25	86.74	57.25	49.51	71.25	31.96	85.25	22.33
43.50	85.75	57.50	49.08	71.50	31.74	85.50	22.20
43.75	84.77	57.75	48.65	71.75	31.52	85.75	22.07
44.00	83.81	58.00	48.24	72.00	31.30	86.00	21.94
44.25	82.87	58.25	47.82	72.25	31.08	86.25	21.81
44.50	81.94	58.50	47.41	72.50	30.87	86.50	21.69
44.75	81.03	58.75	47.01	72.75	30.66	86.75	21.56
45.00	80.13	59.00	46.61	73.00	30.45	87.00	21.44
45.25	79.25	59.25	46.22	73.25	30.24	87.25	21.32
45.50	78.38	59.50	45.83	73.50	30.04	87.50	21.19
45.75	77.52	59.75	45.45	73.75	29.83	87.75	21.07
46.00	76.68	60.00	45.07	74.00	29.63	88.00	20.95
46.25	75.86	60.25	44.70	74.25	29.43	88.25	20.84
46.50	75.04	60.50	44.33	74.50	29.24	88.50	20.72
46.75	74.24	60.75	43.97	74.75	29.04	88.75	20.60
47.00	73.45	61.00	43.61	75.00	28.85	89.00	20.49
47.25	72.68	61.25	43.25	75.25	28.66	89.25	20.37
47.50	71.92	61.50	42.90	75.50	28.47	89.50	20.26
47.75	71.17	61.75	42.55	75.75	28.28	89.75	20.14
48.00	70.43	62.00	42.21	76.00	28.09	90.00	20.03
48.25	69.70	62.25	41.87	76.25	27.91	90.25	19.92
48.50	68.98	62.50	41.54	76.50	27.73	90.50	19.81
48.75	68.28	62.75	41.21	76.75	27.55	90.75	19.70
49.00	67.58	63.00	40.88	77.00	27.37	91.00	19.59
49.25	66.90	63.25	40.56	77.25	27.19	91.25	19.49
49.50	66.22	63.50	40.24	77.50	27.02	91.50	19.38
49.75	65.56	63.75	39.93	77.75	26.84	91.75	19.28
50.00	64.90	64.00	39.62	78.00	26.67	92.00	19.17
50.25	64.26	64.25	39.31	78.25	26.50	92.25	19.07
50.50	63.63	64.50	39.00	78.50	26.33	92.50	18.96
50.75	63.00	64.75	38.70	78.75	26.17	92.75	18.86
51.00	62.38	65.00	38.41	79.00	26.00	93.00	18.76
51.25	61.78	65.25	38.11	79.25	25.84	93.25	18.66
51.50	61.18	65.50	37.82	79.50	25.67	93.50	18.56
51.75	60.59	65.75	37.53	79.75	25.51	93.75	18.46
52.00	60.01	66.00	37.25	80.00	25.35	94.00	18.36
52.25	59.44	66.25	36.97	80.25	25.20	94.25	18.27
52.50	58.87	66.50	36.69	80.50	25.04	94.50	18.17
52.75	58.31	66.75	36.42	80.75	24.89	94.75	18.07
53.00	57.77	67.00	36.15	81.00	24.73	95.00	17.98
53.25	57.22	67.25	35.88	81.25	24.58	95.25	17.89
53.50	56.69	67.50	35.61	81.50	24.43	95.50	17.79
53.75	56.16	67.75	35.35	81.75	24.28	95.75	17.70
54.00	55.65	68.00	35.09	82.00	24.13	96.00	17.61

Table 8 – 100%