

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 1% % Reflection 100%

Distance where limits are exceeded	
FCC ft.	2.1 Inches
BioInitiative ft.	162.6 Inches
0.17	
13.55	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	147.03	10.25	0.17	20.25	0.04	30.25	0.02
0.50	58.81	10.50	0.17	20.50	0.04	30.50	0.02
0.75	29.41	10.75	0.16	20.75	0.04	30.75	0.02
1.00	17.30	11.00	0.15	21.00	0.04	31.00	0.02
1.25	11.31	11.25	0.15	21.25	0.04	31.25	0.02
1.50	7.95	11.50	0.14	21.50	0.04	31.50	0.02
1.75	5.88	11.75	0.13	21.75	0.04	31.75	0.02
2.00	4.52	12.00	0.13	22.00	0.04	32.00	0.02
2.25	3.59	12.25	0.12	22.25	0.04	32.25	0.02
2.50	2.91	12.50	0.12	22.50	0.04	32.50	0.02
2.75	2.41	12.75	0.11	22.75	0.04	32.75	0.02
3.00	2.03	13.00	0.11	23.00	0.03	33.00	0.02
3.25	1.73	13.25	0.10	23.25	0.03	33.25	0.02
3.50	1.49	13.50	0.10	23.50	0.03	33.50	0.02
3.75	1.30	13.75	0.10	23.75	0.03	33.75	0.02
4.00	1.14	14.00	0.09	24.00	0.03	34.00	0.02
4.25	1.01	14.25	0.09	24.25	0.03	34.25	0.02
4.50	0.90	14.50	0.09	24.50	0.03	34.50	0.02
4.75	0.81	14.75	0.08	24.75	0.03	34.75	0.02
5.00	0.73	15.00	0.08	25.00	0.03	35.00	0.02
5.25	0.67	15.25	0.08	25.25	0.03	35.25	0.01
5.50	0.61	15.50	0.08	25.50	0.03	35.50	0.01
5.75	0.55	15.75	0.07	25.75	0.03	35.75	0.01
6.00	0.51	16.00	0.07	26.00	0.03	36.00	0.01
6.25	0.47	16.25	0.07	26.25	0.03	36.25	0.01
6.50	0.43	16.50	0.07	26.50	0.03	36.50	0.01
6.75	0.40	16.75	0.07	26.75	0.03	36.75	0.01
7.00	0.37	17.00	0.06	27.00	0.03	37.00	0.01
7.25	0.35	17.25	0.06	27.25	0.02	37.25	0.01
7.50	0.33	17.50	0.06	27.50	0.02	37.50	0.01
7.75	0.31	17.75	0.06	27.75	0.02	37.75	0.01
8.00	0.29	18.00	0.06	28.00	0.02	38.00	0.01
8.25	0.27	18.25	0.06	28.25	0.02	38.25	0.01
8.50	0.25	18.50	0.05	28.50	0.02	38.50	0.01
8.75	0.24	18.75	0.05	28.75	0.02	38.75	0.01
9.00	0.23	19.00	0.05	29.00	0.02	39.00	0.01
9.25	0.21	19.25	0.05	29.25	0.02	39.25	0.01
9.50	0.20	19.50	0.05	29.50	0.02	39.50	0.01
9.75	0.19	19.75	0.05	29.75	0.02	39.75	0.01
10.00	0.18	20.00	0.05	30.00	0.02	40.00	0.01

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

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 1% % Reflection 100%

Distance where limits are exceeded
 FCC ft. 0.17 2.05 Inches
 BioInitiative ft. 13.55 162.60 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.01	54.25	0.01	68.25	0.00	82.25	0.00
40.50	0.01	54.50	0.01	68.50	0.00	82.50	0.00
40.75	0.01	54.75	0.01	68.75	0.00	82.75	0.00
41.00	0.01	55.00	0.01	69.00	0.00	83.00	0.00
41.25	0.01	55.25	0.01	69.25	0.00	83.25	0.00
41.50	0.01	55.50	0.01	69.50	0.00	83.50	0.00
41.75	0.01	55.75	0.01	69.75	0.00	83.75	0.00
42.00	0.01	56.00	0.01	70.00	0.00	84.00	0.00
42.25	0.01	56.25	0.01	70.25	0.00	84.25	0.00
42.50	0.01	56.50	0.01	70.50	0.00	84.50	0.00
42.75	0.01	56.75	0.01	70.75	0.00	84.75	0.00
43.00	0.01	57.00	0.01	71.00	0.00	85.00	0.00
43.25	0.01	57.25	0.01	71.25	0.00	85.25	0.00
43.50	0.01	57.50	0.01	71.50	0.00	85.50	0.00
43.75	0.01	57.75	0.01	71.75	0.00	85.75	0.00
44.00	0.01	58.00	0.01	72.00	0.00	86.00	0.00
44.25	0.01	58.25	0.01	72.25	0.00	86.25	0.00
44.50	0.01	58.50	0.01	72.50	0.00	86.50	0.00
44.75	0.01	58.75	0.01	72.75	0.00	86.75	0.00
45.00	0.01	59.00	0.01	73.00	0.00	87.00	0.00
45.25	0.01	59.25	0.01	73.25	0.00	87.25	0.00
45.50	0.01	59.50	0.01	73.50	0.00	87.50	0.00
45.75	0.01	59.75	0.01	73.75	0.00	87.75	0.00
46.00	0.01	60.00	0.01	74.00	0.00	88.00	0.00
46.25	0.01	60.25	0.01	74.25	0.00	88.25	0.00
46.50	0.01	60.50	0.01	74.50	0.00	88.50	0.00
46.75	0.01	60.75	0.00	74.75	0.00	88.75	0.00
47.00	0.01	61.00	0.00	75.00	0.00	89.00	0.00
47.25	0.01	61.25	0.00	75.25	0.00	89.25	0.00
47.50	0.01	61.50	0.00	75.50	0.00	89.50	0.00
47.75	0.01	61.75	0.00	75.75	0.00	89.75	0.00
48.00	0.01	62.00	0.00	76.00	0.00	90.00	0.00
48.25	0.01	62.25	0.00	76.25	0.00	90.25	0.00
48.50	0.01	62.50	0.00	76.50	0.00	90.50	0.00
48.75	0.01	62.75	0.00	76.75	0.00	90.75	0.00
49.00	0.01	63.00	0.00	77.00	0.00	91.00	0.00
49.25	0.01	63.25	0.00	77.25	0.00	91.25	0.00
49.50	0.01	63.50	0.00	77.50	0.00	91.50	0.00
49.75	0.01	63.75	0.00	77.75	0.00	91.75	0.00
50.00	0.01	64.00	0.00	78.00	0.00	92.00	0.00
50.25	0.01	64.25	0.00	78.25	0.00	92.25	0.00
50.50	0.01	64.50	0.00	78.50	0.00	92.50	0.00
50.75	0.01	64.75	0.00	78.75	0.00	92.75	0.00
51.00	0.01	65.00	0.00	79.00	0.00	93.00	0.00
51.25	0.01	65.25	0.00	79.25	0.00	93.25	0.00
51.50	0.01	65.50	0.00	79.50	0.00	93.50	0.00
51.75	0.01	65.75	0.00	79.75	0.00	93.75	0.00
52.00	0.01	66.00	0.00	80.00	0.00	94.00	0.00
52.25	0.01	66.25	0.00	80.25	0.00	94.25	0.00
52.50	0.01	66.50	0.00	80.50	0.00	94.50	0.00
52.75	0.01	66.75	0.00	80.75	0.00	94.75	0.00
53.00	0.01	67.00	0.00	81.00	0.00	95.00	0.00
53.25	0.01	67.25	0.00	81.25	0.00	95.25	0.00
53.50	0.01	67.50	0.00	81.50	0.00	95.50	0.00
53.75	0.01	67.75	0.00	81.75	0.00	95.75	0.00
54.00	0.01	68.00	0.00	82.00	0.00	96.00	0.00

Table 14 – 1%

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 10% % Reflection 100%

Distance where limits are exceeded	
FCC ft.	5.8 Inches
BioInitiative ft.	513.6 Inches
0.48	
42.80	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1470.27	10.25	1.75	20.25	0.45	30.25	0.20
0.50	588.11	10.50	1.67	20.50	0.44	30.50	0.20
0.75	294.05	10.75	1.59	20.75	0.43	30.75	0.19
1.00	172.97	11.00	1.52	21.00	0.42	31.00	0.19
1.25	113.10	11.25	1.45	21.25	0.41	31.25	0.19
1.50	79.47	11.50	1.39	21.50	0.40	31.50	0.19
1.75	58.81	11.75	1.33	21.75	0.39	31.75	0.18
2.00	45.24	12.00	1.28	22.00	0.38	32.00	0.18
2.25	35.86	12.25	1.22	22.25	0.37	32.25	0.18
2.50	29.11	12.50	1.18	22.50	0.36	32.50	0.17
2.75	24.10	12.75	1.13	22.75	0.36	32.75	0.17
3.00	20.28	13.00	1.09	23.00	0.35	33.00	0.17
3.25	17.30	13.25	1.05	23.25	0.34	33.25	0.17
3.50	14.93	13.50	1.01	23.50	0.33	33.50	0.16
3.75	13.01	13.75	0.97	23.75	0.33	33.75	0.16
4.00	11.44	14.00	0.94	24.00	0.32	34.00	0.16
4.25	10.14	14.25	0.90	24.25	0.31	34.25	0.16
4.50	9.05	14.50	0.87	24.50	0.31	34.50	0.15
4.75	8.12	14.75	0.84	24.75	0.30	34.75	0.15
5.00	7.33	15.00	0.82	25.00	0.29	35.00	0.15
5.25	6.65	15.25	0.79	25.25	0.29	35.25	0.15
5.50	6.06	15.50	0.76	25.50	0.28	35.50	0.15
5.75	5.55	15.75	0.74	25.75	0.28	35.75	0.14
6.00	5.10	16.00	0.72	26.00	0.27	36.00	0.14
6.25	4.70	16.25	0.70	26.25	0.27	36.25	0.14
6.50	4.34	16.50	0.67	26.50	0.26	36.50	0.14
6.75	4.03	16.75	0.65	26.75	0.26	36.75	0.14
7.00	3.75	17.00	0.64	27.00	0.25	37.00	0.13
7.25	3.49	17.25	0.62	27.25	0.25	37.25	0.13
7.50	3.26	17.50	0.60	27.50	0.24	37.50	0.13
7.75	3.06	17.75	0.58	27.75	0.24	37.75	0.13
8.00	2.87	18.00	0.57	28.00	0.23	38.00	0.13
8.25	2.70	18.25	0.55	28.25	0.23	38.25	0.13
8.50	2.54	18.50	0.54	28.50	0.23	38.50	0.12
8.75	2.40	18.75	0.52	28.75	0.22	38.75	0.12
9.00	2.27	19.00	0.51	29.00	0.22	39.00	0.12
9.25	2.15	19.25	0.50	29.25	0.21	39.25	0.12
9.50	2.03	19.50	0.48	29.50	0.21	39.50	0.12
9.75	1.93	19.75	0.47	29.75	0.21	39.75	0.12
10.00	1.84	20.00	0.46	30.00	0.20	40.00	0.11

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

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 10% % Reflection 100%

Distance where limits are exceeded
 FCC ft. 0.48 5.75 Inches
 BioInitiative ft. 42.80 513.60 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.11	54.25	0.06	68.25	0.04	82.25	0.03
40.50	0.11	54.50	0.06	68.50	0.04	82.50	0.03
40.75	0.11	54.75	0.06	68.75	0.04	82.75	0.03
41.00	0.11	55.00	0.06	69.00	0.04	83.00	0.03
41.25	0.11	55.25	0.06	69.25	0.04	83.25	0.03
41.50	0.11	55.50	0.06	69.50	0.04	83.50	0.03
41.75	0.11	55.75	0.06	69.75	0.04	83.75	0.03
42.00	0.10	56.00	0.06	70.00	0.04	84.00	0.03
42.25	0.10	56.25	0.06	70.25	0.04	84.25	0.03
42.50	0.10	56.50	0.06	70.50	0.04	84.50	0.03
42.75	0.10	56.75	0.06	70.75	0.04	84.75	0.03
43.00	0.10	57.00	0.06	71.00	0.04	85.00	0.03
43.25	0.10	57.25	0.06	71.25	0.04	85.25	0.03
43.50	0.10	57.50	0.06	71.50	0.04	85.50	0.03
43.75	0.10	57.75	0.06	71.75	0.04	85.75	0.02
44.00	0.09	58.00	0.05	72.00	0.04	86.00	0.02
44.25	0.09	58.25	0.05	72.25	0.04	86.25	0.02
44.50	0.09	58.50	0.05	72.50	0.03	86.50	0.02
44.75	0.09	58.75	0.05	72.75	0.03	86.75	0.02
45.00	0.09	59.00	0.05	73.00	0.03	87.00	0.02
45.25	0.09	59.25	0.05	73.25	0.03	87.25	0.02
45.50	0.09	59.50	0.05	73.50	0.03	87.50	0.02
45.75	0.09	59.75	0.05	73.75	0.03	87.75	0.02
46.00	0.09	60.00	0.05	74.00	0.03	88.00	0.02
46.25	0.09	60.25	0.05	74.25	0.03	88.25	0.02
46.50	0.08	60.50	0.05	74.50	0.03	88.50	0.02
46.75	0.08	60.75	0.05	74.75	0.03	88.75	0.02
47.00	0.08	61.00	0.05	75.00	0.03	89.00	0.02
47.25	0.08	61.25	0.05	75.25	0.03	89.25	0.02
47.50	0.08	61.50	0.05	75.50	0.03	89.50	0.02
47.75	0.08	61.75	0.05	75.75	0.03	89.75	0.02
48.00	0.08	62.00	0.05	76.00	0.03	90.00	0.02
48.25	0.08	62.25	0.05	76.25	0.03	90.25	0.02
48.50	0.08	62.50	0.05	76.50	0.03	90.50	0.02
48.75	0.08	62.75	0.05	76.75	0.03	90.75	0.02
49.00	0.08	63.00	0.05	77.00	0.03	91.00	0.02
49.25	0.08	63.25	0.05	77.25	0.03	91.25	0.02
49.50	0.08	63.50	0.05	77.50	0.03	91.50	0.02
49.75	0.07	63.75	0.05	77.75	0.03	91.75	0.02
50.00	0.07	64.00	0.04	78.00	0.03	92.00	0.02
50.25	0.07	64.25	0.04	78.25	0.03	92.25	0.02
50.50	0.07	64.50	0.04	78.50	0.03	92.50	0.02
50.75	0.07	64.75	0.04	78.75	0.03	92.75	0.02
51.00	0.07	65.00	0.04	79.00	0.03	93.00	0.02
51.25	0.07	65.25	0.04	79.25	0.03	93.25	0.02
51.50	0.07	65.50	0.04	79.50	0.03	93.50	0.02
51.75	0.07	65.75	0.04	79.75	0.03	93.75	0.02
52.00	0.07	66.00	0.04	80.00	0.03	94.00	0.02
52.25	0.07	66.25	0.04	80.25	0.03	94.25	0.02
52.50	0.07	66.50	0.04	80.50	0.03	94.50	0.02
52.75	0.07	66.75	0.04	80.75	0.03	94.75	0.02
53.00	0.07	67.00	0.04	81.00	0.03	95.00	0.02
53.25	0.06	67.25	0.04	81.25	0.03	95.25	0.02
53.50	0.06	67.50	0.04	81.50	0.03	95.50	0.02
53.75	0.06	67.75	0.04	81.75	0.03	95.75	0.02
54.00	0.06	68.00	0.04	82.00	0.03	96.00	0.02

Table 14 – 10%

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 20% % Reflection 100%

Distance where limits are exceeded	
FCC ft.	8.7 Inches
BioInitiative ft.	726.0 Inches
0.72	
60.50	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	2940.55	10.25	3.50	20.25	0.90	30.25	0.40
0.50	1176.22	10.50	3.33	20.50	0.87	30.50	0.40
0.75	588.11	10.75	3.18	20.75	0.85	30.75	0.39
1.00	345.95	11.00	3.04	21.00	0.83	31.00	0.38
1.25	226.20	11.25	2.90	21.25	0.81	31.25	0.38
1.50	158.95	11.50	2.78	21.50	0.80	31.50	0.37
1.75	117.62	11.75	2.66	21.75	0.78	31.75	0.36
2.00	90.48	12.00	2.55	22.00	0.76	32.00	0.36
2.25	71.72	12.25	2.45	22.25	0.74	32.25	0.35
2.50	58.23	12.50	2.35	22.50	0.73	32.50	0.35
2.75	48.21	12.75	2.26	22.75	0.71	32.75	0.34
3.00	40.56	13.00	2.17	23.00	0.69	33.00	0.34
3.25	34.59	13.25	2.09	23.25	0.68	33.25	0.33
3.50	29.85	13.50	2.02	23.50	0.67	33.50	0.33
3.75	26.02	13.75	1.94	23.75	0.65	33.75	0.32
4.00	22.88	14.00	1.87	24.00	0.64	34.00	0.32
4.25	20.28	14.25	1.81	24.25	0.62	34.25	0.31
4.50	18.10	14.50	1.75	24.50	0.61	34.50	0.31
4.75	16.25	14.75	1.69	24.75	0.60	34.75	0.30
5.00	14.67	15.00	1.63	25.00	0.59	35.00	0.30
5.25	13.31	15.25	1.58	25.25	0.58	35.25	0.30
5.50	12.13	15.50	1.53	25.50	0.57	35.50	0.29
5.75	11.10	15.75	1.48	25.75	0.55	35.75	0.29
6.00	10.19	16.00	1.44	26.00	0.54	36.00	0.28
6.25	9.39	16.25	1.39	26.25	0.53	36.25	0.28
6.50	8.69	16.50	1.35	26.50	0.52	36.50	0.28
6.75	8.06	16.75	1.31	26.75	0.51	36.75	0.27
7.00	7.49	17.00	1.27	27.00	0.50	37.00	0.27
7.25	6.98	17.25	1.24	27.25	0.49	37.25	0.26
7.50	6.53	17.50	1.20	27.50	0.49	37.50	0.26
7.75	6.11	17.75	1.17	27.75	0.48	37.75	0.26
8.00	5.74	18.00	1.13	28.00	0.47	38.00	0.25
8.25	5.40	18.25	1.10	28.25	0.46	38.25	0.25
8.50	5.08	18.50	1.07	28.50	0.45	38.50	0.25
8.75	4.80	18.75	1.05	28.75	0.44	38.75	0.24
9.00	4.53	19.00	1.02	29.00	0.44	39.00	0.24
9.25	4.29	19.25	0.99	29.25	0.43	39.25	0.24
9.50	4.07	19.50	0.97	29.50	0.42	39.50	0.24
9.75	3.86	19.75	0.94	29.75	0.42	39.75	0.23
10.00	3.67	20.00	0.92	30.00	0.41	40.00	0.23

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

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 20% % Reflection 100%

Distance where limits are exceeded
 FCC ft. 0.72 8.67 Inches
 BioInitiative ft. 60.50 726.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.23	54.25	0.12	68.25	0.08	82.25	0.05
40.50	0.22	54.50	0.12	68.50	0.08	82.50	0.05
40.75	0.22	54.75	0.12	68.75	0.08	82.75	0.05
41.00	0.22	55.00	0.12	69.00	0.08	83.00	0.05
41.25	0.22	55.25	0.12	69.25	0.08	83.25	0.05
41.50	0.21	55.50	0.12	69.50	0.08	83.50	0.05
41.75	0.21	55.75	0.12	69.75	0.08	83.75	0.05
42.00	0.21	56.00	0.12	70.00	0.08	84.00	0.05
42.25	0.21	56.25	0.12	70.25	0.07	84.25	0.05
42.50	0.20	56.50	0.12	70.50	0.07	84.50	0.05
42.75	0.20	56.75	0.11	70.75	0.07	84.75	0.05
43.00	0.20	57.00	0.11	71.00	0.07	85.00	0.05
43.25	0.20	57.25	0.11	71.25	0.07	85.25	0.05
43.50	0.19	57.50	0.11	71.50	0.07	85.50	0.05
43.75	0.19	57.75	0.11	71.75	0.07	85.75	0.05
44.00	0.19	58.00	0.11	72.00	0.07	86.00	0.05
44.25	0.19	58.25	0.11	72.25	0.07	86.25	0.05
44.50	0.19	58.50	0.11	72.50	0.07	86.50	0.05
44.75	0.18	58.75	0.11	72.75	0.07	86.75	0.05
45.00	0.18	59.00	0.11	73.00	0.07	87.00	0.05
45.25	0.18	59.25	0.10	73.25	0.07	87.25	0.05
45.50	0.18	59.50	0.10	73.50	0.07	87.50	0.05
45.75	0.18	59.75	0.10	73.75	0.07	87.75	0.05
46.00	0.17	60.00	0.10	74.00	0.07	88.00	0.05
46.25	0.17	60.25	0.10	74.25	0.07	88.25	0.05
46.50	0.17	60.50	0.10	74.50	0.07	88.50	0.05
46.75	0.17	60.75	0.10	74.75	0.07	88.75	0.05
47.00	0.17	61.00	0.10	75.00	0.07	89.00	0.05
47.25	0.16	61.25	0.10	75.25	0.06	89.25	0.05
47.50	0.16	61.50	0.10	75.50	0.06	89.50	0.05
47.75	0.16	61.75	0.10	75.75	0.06	89.75	0.05
48.00	0.16	62.00	0.10	76.00	0.06	90.00	0.05
48.25	0.16	62.25	0.09	76.25	0.06	90.25	0.05
48.50	0.16	62.50	0.09	76.50	0.06	90.50	0.04
48.75	0.15	62.75	0.09	76.75	0.06	90.75	0.04
49.00	0.15	63.00	0.09	77.00	0.06	91.00	0.04
49.25	0.15	63.25	0.09	77.25	0.06	91.25	0.04
49.50	0.15	63.50	0.09	77.50	0.06	91.50	0.04
49.75	0.15	63.75	0.09	77.75	0.06	91.75	0.04
50.00	0.15	64.00	0.09	78.00	0.06	92.00	0.04
50.25	0.15	64.25	0.09	78.25	0.06	92.25	0.04
50.50	0.14	64.50	0.09	78.50	0.06	92.50	0.04
50.75	0.14	64.75	0.09	78.75	0.06	92.75	0.04
51.00	0.14	65.00	0.09	79.00	0.06	93.00	0.04
51.25	0.14	65.25	0.09	79.25	0.06	93.25	0.04
51.50	0.14	65.50	0.09	79.50	0.06	93.50	0.04
51.75	0.14	65.75	0.09	79.75	0.06	93.75	0.04
52.00	0.14	66.00	0.08	80.00	0.06	94.00	0.04
52.25	0.13	66.25	0.08	80.25	0.06	94.25	0.04
52.50	0.13	66.50	0.08	80.50	0.06	94.50	0.04
52.75	0.13	66.75	0.08	80.75	0.06	94.75	0.04
53.00	0.13	67.00	0.08	81.00	0.06	95.00	0.04
53.25	0.13	67.25	0.08	81.25	0.06	95.25	0.04
53.50	0.13	67.50	0.08	81.50	0.06	95.50	0.04
53.75	0.13	67.75	0.08	81.75	0.05	95.75	0.04
54.00	0.13	68.00	0.08	82.00	0.05	96.00	0.04

Table 14 – 20%

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 30% % Reflection 100%

Distance where limits are exceeded	
FCC ft.	0.90 10.8 Inches
BioInitiative ft.	74.30 891.6 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	4410.82	10.25	5.24	20.25	1.34	30.25	0.60
0.50	1764.33	10.50	5.00	20.50	1.31	30.50	0.59
0.75	882.16	10.75	4.77	20.75	1.28	30.75	0.58
1.00	518.92	11.00	4.55	21.00	1.25	31.00	0.57
1.25	339.29	11.25	4.35	21.25	1.22	31.25	0.56
1.50	238.42	11.50	4.17	21.50	1.19	31.50	0.56
1.75	176.43	11.75	3.99	21.75	1.17	31.75	0.55
2.00	135.72	12.00	3.83	22.00	1.14	32.00	0.54
2.25	107.58	12.25	3.67	22.25	1.11	32.25	0.53
2.50	87.34	12.50	3.53	22.50	1.09	32.50	0.52
2.75	72.31	12.75	3.39	22.75	1.07	32.75	0.51
3.00	60.84	13.00	3.26	23.00	1.04	33.00	0.51
3.25	51.89	13.25	3.14	23.25	1.02	33.25	0.50
3.50	44.78	13.50	3.02	23.50	1.00	33.50	0.49
3.75	39.03	13.75	2.92	23.75	0.98	33.75	0.48
4.00	34.33	14.00	2.81	24.00	0.96	34.00	0.48
4.25	30.42	14.25	2.71	24.25	0.94	34.25	0.47
4.50	27.14	14.50	2.62	24.50	0.92	34.50	0.46
4.75	24.37	14.75	2.53	24.75	0.90	34.75	0.46
5.00	22.00	15.00	2.45	25.00	0.88	35.00	0.45
5.25	19.96	15.25	2.37	25.25	0.86	35.25	0.44
5.50	18.19	15.50	2.29	25.50	0.85	35.50	0.44
5.75	16.64	15.75	2.22	25.75	0.83	35.75	0.43
6.00	15.29	16.00	2.15	26.00	0.82	36.00	0.43
6.25	14.09	16.25	2.09	26.25	0.80	36.25	0.42
6.50	13.03	16.50	2.02	26.50	0.79	36.50	0.41
6.75	12.08	16.75	1.96	26.75	0.77	36.75	0.41
7.00	11.24	17.00	1.91	27.00	0.76	37.00	0.40
7.25	10.48	17.25	1.85	27.25	0.74	37.25	0.40
7.50	9.79	17.50	1.80	27.50	0.73	37.50	0.39
7.75	9.17	17.75	1.75	27.75	0.72	37.75	0.39
8.00	8.61	18.00	1.70	28.00	0.70	38.00	0.38
8.25	8.09	18.25	1.66	28.25	0.69	38.25	0.38
8.50	7.62	18.50	1.61	28.50	0.68	38.50	0.37
8.75	7.20	18.75	1.57	28.75	0.67	38.75	0.37
9.00	6.80	19.00	1.53	29.00	0.66	39.00	0.36
9.25	6.44	19.25	1.49	29.25	0.64	39.25	0.36
9.50	6.10	19.50	1.45	29.50	0.63	39.50	0.35
9.75	5.80	19.75	1.41	29.75	0.62	39.75	0.35
10.00	5.51	20.00	1.38	30.00	0.61	40.00	0.34

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

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 30% % Reflection 100%

Distance where limits are exceeded
 FCC ft. 0.90 10.83 Inches
 BioInitiative ft. 74.30 891.60 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.34	54.25	0.19	68.25	0.12	82.25	0.08
40.50	0.34	54.50	0.19	68.50	0.12	82.50	0.08
40.75	0.33	54.75	0.18	68.75	0.12	82.75	0.08
41.00	0.33	55.00	0.18	69.00	0.12	83.00	0.08
41.25	0.32	55.25	0.18	69.25	0.11	83.25	0.08
41.50	0.32	55.50	0.18	69.50	0.11	83.50	0.08
41.75	0.32	55.75	0.18	69.75	0.11	83.75	0.08
42.00	0.31	56.00	0.18	70.00	0.11	84.00	0.08
42.25	0.31	56.25	0.17	70.25	0.11	84.25	0.08
42.50	0.31	56.50	0.17	70.50	0.11	84.50	0.08
42.75	0.30	56.75	0.17	70.75	0.11	84.75	0.08
43.00	0.30	57.00	0.17	71.00	0.11	85.00	0.08
43.25	0.29	57.25	0.17	71.25	0.11	85.25	0.08
43.50	0.29	57.50	0.17	71.50	0.11	85.50	0.08
43.75	0.29	57.75	0.17	71.75	0.11	85.75	0.07
44.00	0.28	58.00	0.16	72.00	0.11	86.00	0.07
44.25	0.28	58.25	0.16	72.25	0.11	86.25	0.07
44.50	0.28	58.50	0.16	72.50	0.10	86.50	0.07
44.75	0.28	58.75	0.16	72.75	0.10	86.75	0.07
45.00	0.27	59.00	0.16	73.00	0.10	87.00	0.07
45.25	0.27	59.25	0.16	73.25	0.10	87.25	0.07
45.50	0.27	59.50	0.16	73.50	0.10	87.50	0.07
45.75	0.26	59.75	0.15	73.75	0.10	87.75	0.07
46.00	0.26	60.00	0.15	74.00	0.10	88.00	0.07
46.25	0.26	60.25	0.15	74.25	0.10	88.25	0.07
46.50	0.25	60.50	0.15	74.50	0.10	88.50	0.07
46.75	0.25	60.75	0.15	74.75	0.10	88.75	0.07
47.00	0.25	61.00	0.15	75.00	0.10	89.00	0.07
47.25	0.25	61.25	0.15	75.25	0.10	89.25	0.07
47.50	0.24	61.50	0.15	75.50	0.10	89.50	0.07
47.75	0.24	61.75	0.14	75.75	0.10	89.75	0.07
48.00	0.24	62.00	0.14	76.00	0.10	90.00	0.07
48.25	0.24	62.25	0.14	76.25	0.09	90.25	0.07
48.50	0.23	62.50	0.14	76.50	0.09	90.50	0.07
48.75	0.23	62.75	0.14	76.75	0.09	90.75	0.07
49.00	0.23	63.00	0.14	77.00	0.09	91.00	0.07
49.25	0.23	63.25	0.14	77.25	0.09	91.25	0.07
49.50	0.23	63.50	0.14	77.50	0.09	91.50	0.07
49.75	0.22	63.75	0.14	77.75	0.09	91.75	0.07
50.00	0.22	64.00	0.13	78.00	0.09	92.00	0.07
50.25	0.22	64.25	0.13	78.25	0.09	92.25	0.06
50.50	0.22	64.50	0.13	78.50	0.09	92.50	0.06
50.75	0.21	64.75	0.13	78.75	0.09	92.75	0.06
51.00	0.21	65.00	0.13	79.00	0.09	93.00	0.06
51.25	0.21	65.25	0.13	79.25	0.09	93.25	0.06
51.50	0.21	65.50	0.13	79.50	0.09	93.50	0.06
51.75	0.21	65.75	0.13	79.75	0.09	93.75	0.06
52.00	0.20	66.00	0.13	80.00	0.09	94.00	0.06
52.25	0.20	66.25	0.13	80.25	0.09	94.25	0.06
52.50	0.20	66.50	0.12	80.50	0.09	94.50	0.06
52.75	0.20	66.75	0.12	80.75	0.08	94.75	0.06
53.00	0.20	67.00	0.12	81.00	0.08	95.00	0.06
53.25	0.19	67.25	0.12	81.25	0.08	95.25	0.06
53.50	0.19	67.50	0.12	81.50	0.08	95.50	0.06
53.75	0.19	67.75	0.12	81.75	0.08	95.75	0.06
54.00	0.19	68.00	0.12	82.00	0.08	96.00	0.06

Table 14 – 30%

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 40% % Reflection 100%

Distance where limits are exceeded	
FCC ft.	12.6 Inches
BioInitiative ft.	1027.2 Inches
1.05	
85.60	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	5881.10	10.25	6.99	20.25	1.79	30.25	0.80
0.50	2352.44	10.50	6.66	20.50	1.75	30.50	0.79
0.75	1176.22	10.75	6.36	20.75	1.71	30.75	0.78
1.00	691.89	11.00	6.07	21.00	1.67	31.00	0.76
1.25	452.39	11.25	5.81	21.25	1.63	31.25	0.75
1.50	317.90	11.50	5.56	21.50	1.59	31.50	0.74
1.75	235.24	11.75	5.32	21.75	1.55	31.75	0.73
2.00	180.96	12.00	5.10	22.00	1.52	32.00	0.72
2.25	143.44	12.25	4.90	22.25	1.48	32.25	0.71
2.50	116.46	12.50	4.70	22.50	1.45	32.50	0.70
2.75	96.41	12.75	4.52	22.75	1.42	32.75	0.69
3.00	81.12	13.00	4.35	23.00	1.39	33.00	0.68
3.25	69.19	13.25	4.19	23.25	1.36	33.25	0.66
3.50	59.71	13.50	4.03	23.50	1.33	33.50	0.66
3.75	52.05	13.75	3.89	23.75	1.30	33.75	0.65
4.00	45.77	14.00	3.75	24.00	1.28	34.00	0.64
4.25	40.56	14.25	3.62	24.25	1.25	34.25	0.63
4.50	36.19	14.50	3.50	24.50	1.22	34.50	0.62
4.75	32.49	14.75	3.38	24.75	1.20	34.75	0.61
5.00	29.33	15.00	3.27	25.00	1.18	35.00	0.60
5.25	26.61	15.25	3.16	25.25	1.15	35.25	0.59
5.50	24.25	15.50	3.06	25.50	1.13	35.50	0.58
5.75	22.19	15.75	2.96	25.75	1.11	35.75	0.58
6.00	20.39	16.00	2.87	26.00	1.09	36.00	0.57
6.25	18.79	16.25	2.78	26.25	1.07	36.25	0.56
6.50	17.37	16.50	2.70	26.50	1.05	36.50	0.55
6.75	16.11	16.75	2.62	26.75	1.03	36.75	0.54
7.00	14.98	17.00	2.54	27.00	1.01	37.00	0.54
7.25	13.97	17.25	2.47	27.25	0.99	37.25	0.53
7.50	13.05	17.50	2.40	27.50	0.97	37.50	0.52
7.75	12.23	17.75	2.33	27.75	0.95	37.75	0.52
8.00	11.48	18.00	2.27	28.00	0.94	38.00	0.51
8.25	10.79	18.25	2.21	28.25	0.92	38.25	0.50
8.50	10.17	18.50	2.15	28.50	0.90	38.50	0.50
8.75	9.59	18.75	2.09	28.75	0.89	38.75	0.49
9.00	9.07	19.00	2.04	29.00	0.87	39.00	0.48
9.25	8.59	19.25	1.98	29.25	0.86	39.25	0.48
9.50	8.14	19.50	1.93	29.50	0.84	39.50	0.47
9.75	7.73	19.75	1.88	29.75	0.83	39.75	0.47
10.00	7.35	20.00	1.84	30.00	0.82	40.00	0.46

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

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 40% % Reflection 100%

Distance where limits are exceeded
 FCC ft. 1.05 12.63 Inches
 BioInitiative ft. 85.60 1027.20 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.45	54.25	0.25	68.25	0.16	82.25	0.11
40.50	0.45	54.50	0.25	68.50	0.16	82.50	0.11
40.75	0.44	54.75	0.25	68.75	0.16	82.75	0.11
41.00	0.44	55.00	0.24	69.00	0.15	83.00	0.11
41.25	0.43	55.25	0.24	69.25	0.15	83.25	0.11
41.50	0.43	55.50	0.24	69.50	0.15	83.50	0.11
41.75	0.42	55.75	0.24	69.75	0.15	83.75	0.10
42.00	0.42	56.00	0.23	70.00	0.15	84.00	0.10
42.25	0.41	56.25	0.23	70.25	0.15	84.25	0.10
42.50	0.41	56.50	0.23	70.50	0.15	84.50	0.10
42.75	0.40	56.75	0.23	70.75	0.15	84.75	0.10
43.00	0.40	57.00	0.23	71.00	0.15	85.00	0.10
43.25	0.39	57.25	0.22	71.25	0.14	85.25	0.10
43.50	0.39	57.50	0.22	71.50	0.14	85.50	0.10
43.75	0.38	57.75	0.22	71.75	0.14	85.75	0.10
44.00	0.38	58.00	0.22	72.00	0.14	86.00	0.10
44.25	0.38	58.25	0.22	72.25	0.14	86.25	0.10
44.50	0.37	58.50	0.21	72.50	0.14	86.50	0.10
44.75	0.37	58.75	0.21	72.75	0.14	86.75	0.10
45.00	0.36	59.00	0.21	73.00	0.14	87.00	0.10
45.25	0.36	59.25	0.21	73.25	0.14	87.25	0.10
45.50	0.36	59.50	0.21	73.50	0.14	87.50	0.10
45.75	0.35	59.75	0.21	73.75	0.14	87.75	0.10
46.00	0.35	60.00	0.20	74.00	0.13	88.00	0.09
46.25	0.34	60.25	0.20	74.25	0.13	88.25	0.09
46.50	0.34	60.50	0.20	74.50	0.13	88.50	0.09
46.75	0.34	60.75	0.20	74.75	0.13	88.75	0.09
47.00	0.33	61.00	0.20	75.00	0.13	89.00	0.09
47.25	0.33	61.25	0.20	75.25	0.13	89.25	0.09
47.50	0.33	61.50	0.19	75.50	0.13	89.50	0.09
47.75	0.32	61.75	0.19	75.75	0.13	89.75	0.09
48.00	0.32	62.00	0.19	76.00	0.13	90.00	0.09
48.25	0.32	62.25	0.19	76.25	0.13	90.25	0.09
48.50	0.31	62.50	0.19	76.50	0.13	90.50	0.09
48.75	0.31	62.75	0.19	76.75	0.12	90.75	0.09
49.00	0.31	63.00	0.19	77.00	0.12	91.00	0.09
49.25	0.30	63.25	0.18	77.25	0.12	91.25	0.09
49.50	0.30	63.50	0.18	77.50	0.12	91.50	0.09
49.75	0.30	63.75	0.18	77.75	0.12	91.75	0.09
50.00	0.29	64.00	0.18	78.00	0.12	92.00	0.09
50.25	0.29	64.25	0.18	78.25	0.12	92.25	0.09
50.50	0.29	64.50	0.18	78.50	0.12	92.50	0.09
50.75	0.29	64.75	0.18	78.75	0.12	92.75	0.09
51.00	0.28	65.00	0.17	79.00	0.12	93.00	0.08
51.25	0.28	65.25	0.17	79.25	0.12	93.25	0.08
51.50	0.28	65.50	0.17	79.50	0.12	93.50	0.08
51.75	0.27	65.75	0.17	79.75	0.12	93.75	0.08
52.00	0.27	66.00	0.17	80.00	0.11	94.00	0.08
52.25	0.27	66.25	0.17	80.25	0.11	94.25	0.08
52.50	0.27	66.50	0.17	80.50	0.11	94.50	0.08
52.75	0.26	66.75	0.16	80.75	0.11	94.75	0.08
53.00	0.26	67.00	0.16	81.00	0.11	95.00	0.08
53.25	0.26	67.25	0.16	81.25	0.11	95.25	0.08
53.50	0.26	67.50	0.16	81.50	0.11	95.50	0.08
53.75	0.25	67.75	0.16	81.75	0.11	95.75	0.08
54.00	0.25	68.00	0.16	82.00	0.11	96.00	0.08

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 50% % Reflection 100%

Distance where limits are exceeded	
FCC ft.	14.2 Inches
BioInitiative ft.	1152.0 Inches
1.18	
96.00	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	7351.37	10.25	8.74	20.25	2.24	30.25	1.00
0.50	2940.55	10.50	8.33	20.50	2.19	30.50	0.99
0.75	1470.27	10.75	7.95	20.75	2.13	30.75	0.97
1.00	864.87	11.00	7.59	21.00	2.08	31.00	0.96
1.25	565.49	11.25	7.26	21.25	2.03	31.25	0.94
1.50	397.37	11.50	6.95	21.50	1.99	31.50	0.93
1.75	294.05	11.75	6.65	21.75	1.94	31.75	0.91
2.00	226.20	12.00	6.38	22.00	1.90	32.00	0.90
2.25	179.30	12.25	6.12	22.25	1.86	32.25	0.88
2.50	145.57	12.50	5.88	22.50	1.81	32.50	0.87
2.75	120.51	12.75	5.65	22.75	1.78	32.75	0.86
3.00	101.40	13.00	5.44	23.00	1.74	33.00	0.84
3.25	86.49	13.25	5.23	23.25	1.70	33.25	0.83
3.50	74.63	13.50	5.04	23.50	1.66	33.50	0.82
3.75	65.06	13.75	4.86	23.75	1.63	33.75	0.81
4.00	57.21	14.00	4.69	24.00	1.60	34.00	0.79
4.25	50.70	14.25	4.52	24.25	1.56	34.25	0.78
4.50	45.24	14.50	4.37	24.50	1.53	34.50	0.77
4.75	40.62	14.75	4.22	24.75	1.50	34.75	0.76
5.00	36.67	15.00	4.08	25.00	1.47	35.00	0.75
5.25	33.26	15.25	3.95	25.25	1.44	35.25	0.74
5.50	30.31	15.50	3.82	25.50	1.41	35.50	0.73
5.75	27.74	15.75	3.70	25.75	1.39	35.75	0.72
6.00	25.48	16.00	3.59	26.00	1.36	36.00	0.71
6.25	23.49	16.25	3.48	26.25	1.33	36.25	0.70
6.50	21.72	16.50	3.37	26.50	1.31	36.50	0.69
6.75	20.14	16.75	3.27	26.75	1.28	36.75	0.68
7.00	18.73	17.00	3.18	27.00	1.26	37.00	0.67
7.25	17.46	17.25	3.09	27.25	1.24	37.25	0.66
7.50	16.32	17.50	3.00	27.50	1.22	37.50	0.65
7.75	15.28	17.75	2.92	27.75	1.19	37.75	0.64
8.00	14.34	18.00	2.84	28.00	1.17	38.00	0.64
8.25	13.49	18.25	2.76	28.25	1.15	38.25	0.63
8.50	12.71	18.50	2.68	28.50	1.13	38.50	0.62
8.75	11.99	18.75	2.61	28.75	1.11	38.75	0.61
9.00	11.34	19.00	2.55	29.00	1.09	39.00	0.60
9.25	10.73	19.25	2.48	29.25	1.07	39.25	0.60
9.50	10.17	19.50	2.42	29.50	1.06	39.50	0.59
9.75	9.66	19.75	2.36	29.75	1.04	39.75	0.58
10.00	9.18	20.00	2.30	30.00	1.02	40.00	0.57

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)
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- 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

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 50% % Reflection 100%

Distance where limits are exceeded
 FCC ft. 1.18 14.19 Inches
 BioInitiative ft. 96.00 1152.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.57	54.25	0.31	68.25	0.20	82.25	0.14
40.50	0.56	54.50	0.31	68.50	0.20	82.50	0.14
40.75	0.55	54.75	0.31	68.75	0.19	82.75	0.13
41.00	0.55	55.00	0.30	69.00	0.19	83.00	0.13
41.25	0.54	55.25	0.30	69.25	0.19	83.25	0.13
41.50	0.53	55.50	0.30	69.50	0.19	83.50	0.13
41.75	0.53	55.75	0.30	69.75	0.19	83.75	0.13
42.00	0.52	56.00	0.29	70.00	0.19	84.00	0.13
42.25	0.51	56.25	0.29	70.25	0.19	84.25	0.13
42.50	0.51	56.50	0.29	70.50	0.18	84.50	0.13
42.75	0.50	56.75	0.29	70.75	0.18	84.75	0.13
43.00	0.50	57.00	0.28	71.00	0.18	85.00	0.13
43.25	0.49	57.25	0.28	71.25	0.18	85.25	0.13
43.50	0.49	57.50	0.28	71.50	0.18	85.50	0.13
43.75	0.48	57.75	0.28	71.75	0.18	85.75	0.12
44.00	0.47	58.00	0.27	72.00	0.18	86.00	0.12
44.25	0.47	58.25	0.27	72.25	0.18	86.25	0.12
44.50	0.46	58.50	0.27	72.50	0.17	86.50	0.12
44.75	0.46	58.75	0.27	72.75	0.17	86.75	0.12
45.00	0.45	59.00	0.26	73.00	0.17	87.00	0.12
45.25	0.45	59.25	0.26	73.25	0.17	87.25	0.12
45.50	0.44	59.50	0.26	73.50	0.17	87.50	0.12
45.75	0.44	59.75	0.26	73.75	0.17	87.75	0.12
46.00	0.43	60.00	0.26	74.00	0.17	88.00	0.12
46.25	0.43	60.25	0.25	74.25	0.17	88.25	0.12
46.50	0.42	60.50	0.25	74.50	0.17	88.50	0.12
46.75	0.42	60.75	0.25	74.75	0.16	88.75	0.12
47.00	0.42	61.00	0.25	75.00	0.16	89.00	0.12
47.25	0.41	61.25	0.24	75.25	0.16	89.25	0.12
47.50	0.41	61.50	0.24	75.50	0.16	89.50	0.11
47.75	0.40	61.75	0.24	75.75	0.16	89.75	0.11
48.00	0.40	62.00	0.24	76.00	0.16	90.00	0.11
48.25	0.39	62.25	0.24	76.25	0.16	90.25	0.11
48.50	0.39	62.50	0.24	76.50	0.16	90.50	0.11
48.75	0.39	62.75	0.23	76.75	0.16	90.75	0.11
49.00	0.38	63.00	0.23	77.00	0.15	91.00	0.11
49.25	0.38	63.25	0.23	77.25	0.15	91.25	0.11
49.50	0.38	63.50	0.23	77.50	0.15	91.50	0.11
49.75	0.37	63.75	0.23	77.75	0.15	91.75	0.11
50.00	0.37	64.00	0.22	78.00	0.15	92.00	0.11
50.25	0.36	64.25	0.22	78.25	0.15	92.25	0.11
50.50	0.36	64.50	0.22	78.50	0.15	92.50	0.11
50.75	0.36	64.75	0.22	78.75	0.15	92.75	0.11
51.00	0.35	65.00	0.22	79.00	0.15	93.00	0.11
51.25	0.35	65.25	0.22	79.25	0.15	93.25	0.11
51.50	0.35	65.50	0.21	79.50	0.15	93.50	0.11
51.75	0.34	65.75	0.21	79.75	0.14	93.75	0.10
52.00	0.34	66.00	0.21	80.00	0.14	94.00	0.10
52.25	0.34	66.25	0.21	80.25	0.14	94.25	0.10
52.50	0.33	66.50	0.21	80.50	0.14	94.50	0.10
52.75	0.33	66.75	0.21	80.75	0.14	94.75	0.10
53.00	0.33	67.00	0.20	81.00	0.14	95.00	0.10
53.25	0.32	67.25	0.20	81.25	0.14	95.25	0.10
53.50	0.32	67.50	0.20	81.50	0.14	95.50	0.10
53.75	0.32	67.75	0.20	81.75	0.14	95.75	0.10
54.00	0.32	68.00	0.20	82.00	0.14	96.00	0.10

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 60% % Reflection 100%

Distance where limits are exceeded	
FCC ft.	1.30 15.6 Inches
BioInitiative ft.	105.00 1260.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	8821.64	10.25	10.49	20.25	2.69	30.25	1.20
0.50	3528.66	10.50	10.00	20.50	2.62	30.50	1.19
0.75	1764.33	10.75	9.54	20.75	2.56	30.75	1.17
1.00	1037.84	11.00	9.11	21.00	2.50	31.00	1.15
1.25	678.59	11.25	8.71	21.25	2.44	31.25	1.13
1.50	476.85	11.50	8.33	21.50	2.39	31.50	1.11
1.75	352.87	11.75	7.98	21.75	2.33	31.75	1.09
2.00	271.44	12.00	7.65	22.00	2.28	32.00	1.08
2.25	215.16	12.25	7.35	22.25	2.23	32.25	1.06
2.50	174.69	12.50	7.05	22.50	2.18	32.50	1.04
2.75	144.62	12.75	6.78	22.75	2.13	32.75	1.03
3.00	121.68	13.00	6.52	23.00	2.08	33.00	1.01
3.25	103.78	13.25	6.28	23.25	2.04	33.25	1.00
3.50	89.56	13.50	6.05	23.50	2.00	33.50	0.98
3.75	78.07	13.75	5.83	23.75	1.95	33.75	0.97
4.00	68.65	14.00	5.62	24.00	1.91	34.00	0.95
4.25	60.84	14.25	5.43	24.25	1.87	34.25	0.94
4.50	54.29	14.50	5.24	24.50	1.84	34.50	0.93
4.75	48.74	14.75	5.07	24.75	1.80	34.75	0.91
5.00	44.00	15.00	4.90	25.00	1.76	35.00	0.90
5.25	39.92	15.25	4.74	25.25	1.73	35.25	0.89
5.50	36.38	15.50	4.59	25.50	1.70	35.50	0.87
5.75	33.29	15.75	4.44	25.75	1.66	35.75	0.86
6.00	30.58	16.00	4.31	26.00	1.63	36.00	0.85
6.25	28.18	16.25	4.17	26.25	1.60	36.25	0.84
6.50	26.06	16.50	4.05	26.50	1.57	36.50	0.83
6.75	24.17	16.75	3.93	26.75	1.54	36.75	0.82
7.00	22.48	17.00	3.81	27.00	1.51	37.00	0.81
7.25	20.95	17.25	3.71	27.25	1.48	37.25	0.79
7.50	19.58	17.50	3.60	27.50	1.46	37.50	0.78
7.75	18.34	17.75	3.50	27.75	1.43	37.75	0.77
8.00	17.21	18.00	3.40	28.00	1.41	38.00	0.76
8.25	16.19	18.25	3.31	28.25	1.38	38.25	0.75
8.50	15.25	18.50	3.22	28.50	1.36	38.50	0.74
8.75	14.39	18.75	3.14	28.75	1.33	38.75	0.73
9.00	13.60	19.00	3.05	29.00	1.31	39.00	0.72
9.25	12.88	19.25	2.98	29.25	1.29	39.25	0.72
9.50	12.21	19.50	2.90	29.50	1.27	39.50	0.71
9.75	11.59	19.75	2.83	29.75	1.25	39.75	0.70
10.00	11.02	20.00	2.76	30.00	1.23	40.00	0.69

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

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 60% % Reflection 100%

Distance where limits are exceeded
 FCC ft. 1.30 15.61 Inches
 BioInitiative ft. 105.00 1260.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.68	54.25	0.37	68.25	0.24	82.25	0.16
40.50	0.67	54.50	0.37	68.50	0.24	82.50	0.16
40.75	0.66	54.75	0.37	68.75	0.23	82.75	0.16
41.00	0.66	55.00	0.36	69.00	0.23	83.00	0.16
41.25	0.65	55.25	0.36	69.25	0.23	83.25	0.16
41.50	0.64	55.50	0.36	69.50	0.23	83.50	0.16
41.75	0.63	55.75	0.35	69.75	0.23	83.75	0.16
42.00	0.63	56.00	0.35	70.00	0.23	84.00	0.16
42.25	0.62	56.25	0.35	70.25	0.22	84.25	0.16
42.50	0.61	56.50	0.35	70.50	0.22	84.50	0.15
42.75	0.60	56.75	0.34	70.75	0.22	84.75	0.15
43.00	0.60	57.00	0.34	71.00	0.22	85.00	0.15
43.25	0.59	57.25	0.34	71.25	0.22	85.25	0.15
43.50	0.58	57.50	0.33	71.50	0.22	85.50	0.15
43.75	0.58	57.75	0.33	71.75	0.21	85.75	0.15
44.00	0.57	58.00	0.33	72.00	0.21	86.00	0.15
44.25	0.56	58.25	0.32	72.25	0.21	86.25	0.15
44.50	0.56	58.50	0.32	72.50	0.21	86.50	0.15
44.75	0.55	58.75	0.32	72.75	0.21	86.75	0.15
45.00	0.54	59.00	0.32	73.00	0.21	87.00	0.15
45.25	0.54	59.25	0.31	73.25	0.21	87.25	0.14
45.50	0.53	59.50	0.31	73.50	0.20	87.50	0.14
45.75	0.53	59.75	0.31	73.75	0.20	87.75	0.14
46.00	0.52	60.00	0.31	74.00	0.20	88.00	0.14
46.25	0.52	60.25	0.30	74.25	0.20	88.25	0.14
46.50	0.51	60.50	0.30	74.50	0.20	88.50	0.14
46.75	0.50	60.75	0.30	74.75	0.20	88.75	0.14
47.00	0.50	61.00	0.30	75.00	0.20	89.00	0.14
47.25	0.49	61.25	0.29	75.25	0.19	89.25	0.14
47.50	0.49	61.50	0.29	75.50	0.19	89.50	0.14
47.75	0.48	61.75	0.29	75.75	0.19	89.75	0.14
48.00	0.48	62.00	0.29	76.00	0.19	90.00	0.14
48.25	0.47	62.25	0.28	76.25	0.19	90.25	0.14
48.50	0.47	62.50	0.28	76.50	0.19	90.50	0.13
48.75	0.46	62.75	0.28	76.75	0.19	90.75	0.13
49.00	0.46	63.00	0.28	77.00	0.19	91.00	0.13
49.25	0.45	63.25	0.28	77.25	0.18	91.25	0.13
49.50	0.45	63.50	0.27	77.50	0.18	91.50	0.13
49.75	0.45	63.75	0.27	77.75	0.18	91.75	0.13
50.00	0.44	64.00	0.27	78.00	0.18	92.00	0.13
50.25	0.44	64.25	0.27	78.25	0.18	92.25	0.13
50.50	0.43	64.50	0.27	78.50	0.18	92.50	0.13
50.75	0.43	64.75	0.26	78.75	0.18	92.75	0.13
51.00	0.42	65.00	0.26	79.00	0.18	93.00	0.13
51.25	0.42	65.25	0.26	79.25	0.18	93.25	0.13
51.50	0.42	65.50	0.26	79.50	0.17	93.50	0.13
51.75	0.41	65.75	0.26	79.75	0.17	93.75	0.13
52.00	0.41	66.00	0.25	80.00	0.17	94.00	0.12
52.25	0.40	66.25	0.25	80.25	0.17	94.25	0.12
52.50	0.40	66.50	0.25	80.50	0.17	94.50	0.12
52.75	0.40	66.75	0.25	80.75	0.17	94.75	0.12
53.00	0.39	67.00	0.25	81.00	0.17	95.00	0.12
53.25	0.39	67.25	0.24	81.25	0.17	95.25	0.12
53.50	0.39	67.50	0.24	81.50	0.17	95.50	0.12
53.75	0.38	67.75	0.24	81.75	0.16	95.75	0.12
54.00	0.38	68.00	0.24	82.00	0.16	96.00	0.12

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 70% % Reflection 100%

Distance where limits are exceeded	
FCC ft.	16.9 Inches
BioInitiative ft.	1362.0 Inches
1.41	113.50

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	10291.92	10.25	12.24	20.25	3.14	30.25	1.41
0.50	4116.77	10.50	11.66	20.50	3.06	30.50	1.38
0.75	2058.38	10.75	11.13	20.75	2.99	30.75	1.36
1.00	1210.81	11.00	10.63	21.00	2.92	31.00	1.34
1.25	791.69	11.25	10.16	21.25	2.85	31.25	1.32
1.50	556.32	11.50	9.72	21.50	2.78	31.50	1.30
1.75	411.68	11.75	9.31	21.75	2.72	31.75	1.28
2.00	316.67	12.00	8.93	22.00	2.66	32.00	1.26
2.25	251.02	12.25	8.57	22.25	2.60	32.25	1.24
2.50	203.80	12.50	8.23	22.50	2.54	32.50	1.22
2.75	168.72	12.75	7.91	22.75	2.49	32.75	1.20
3.00	141.96	13.00	7.61	23.00	2.43	33.00	1.18
3.25	121.08	13.25	7.33	23.25	2.38	33.25	1.16
3.50	104.49	13.50	7.06	23.50	2.33	33.50	1.15
3.75	91.08	13.75	6.80	23.75	2.28	33.75	1.13
4.00	80.09	14.00	6.56	24.00	2.23	34.00	1.11
4.25	70.98	14.25	6.33	24.25	2.19	34.25	1.10
4.50	63.33	14.50	6.12	24.50	2.14	34.50	1.08
4.75	56.86	14.75	5.91	24.75	2.10	34.75	1.07
5.00	51.33	15.00	5.72	25.00	2.06	35.00	1.05
5.25	46.57	15.25	5.53	25.25	2.02	35.25	1.04
5.50	42.44	15.50	5.35	25.50	1.98	35.50	1.02
5.75	38.84	15.75	5.18	25.75	1.94	35.75	1.01
6.00	35.67	16.00	5.02	26.00	1.90	36.00	0.99
6.25	32.88	16.25	4.87	26.25	1.87	36.25	0.98
6.50	30.40	16.50	4.72	26.50	1.83	36.50	0.97
6.75	28.20	16.75	4.58	26.75	1.80	36.75	0.95
7.00	26.22	17.00	4.45	27.00	1.76	37.00	0.94
7.25	24.45	17.25	4.32	27.25	1.73	37.25	0.93
7.50	22.85	17.50	4.20	27.50	1.70	37.50	0.91
7.75	21.40	17.75	4.08	27.75	1.67	37.75	0.90
8.00	20.08	18.00	3.97	28.00	1.64	38.00	0.89
8.25	18.88	18.25	3.86	28.25	1.61	38.25	0.88
8.50	17.79	18.50	3.76	28.50	1.58	38.50	0.87
8.75	16.79	18.75	3.66	28.75	1.56	38.75	0.86
9.00	15.87	19.00	3.56	29.00	1.53	39.00	0.85
9.25	15.02	19.25	3.47	29.25	1.50	39.25	0.84
9.50	14.24	19.50	3.38	29.50	1.48	39.50	0.82
9.75	13.52	19.75	3.30	29.75	1.45	39.75	0.81
10.00	12.86	20.00	3.22	30.00	1.43	40.00	0.80

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

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 70% % Reflection 100%

Distance where limits are exceeded
 FCC ft. 1.41 16.90 Inches
 BioInitiative ft. 113.50 1362.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.79	54.25	0.44	68.25	0.28	82.25	0.19
40.50	0.78	54.50	0.43	68.50	0.27	82.50	0.19
40.75	0.77	54.75	0.43	68.75	0.27	82.75	0.19
41.00	0.77	55.00	0.43	69.00	0.27	83.00	0.19
41.25	0.76	55.25	0.42	69.25	0.27	83.25	0.19
41.50	0.75	55.50	0.42	69.50	0.27	83.50	0.18
41.75	0.74	55.75	0.41	69.75	0.26	83.75	0.18
42.00	0.73	56.00	0.41	70.00	0.26	84.00	0.18
42.25	0.72	56.25	0.41	70.25	0.26	84.25	0.18
42.50	0.71	56.50	0.40	70.50	0.26	84.50	0.18
42.75	0.70	56.75	0.40	70.75	0.26	84.75	0.18
43.00	0.70	57.00	0.40	71.00	0.26	85.00	0.18
43.25	0.69	57.25	0.39	71.25	0.25	85.25	0.18
43.50	0.68	57.50	0.39	71.50	0.25	85.50	0.18
43.75	0.67	57.75	0.39	71.75	0.25	85.75	0.17
44.00	0.66	58.00	0.38	72.00	0.25	86.00	0.17
44.25	0.66	58.25	0.38	72.25	0.25	86.25	0.17
44.50	0.65	58.50	0.38	72.50	0.24	86.50	0.17
44.75	0.64	58.75	0.37	72.75	0.24	86.75	0.17
45.00	0.64	59.00	0.37	73.00	0.24	87.00	0.17
45.25	0.63	59.25	0.37	73.25	0.24	87.25	0.17
45.50	0.62	59.50	0.36	73.50	0.24	87.50	0.17
45.75	0.61	59.75	0.36	73.75	0.24	87.75	0.17
46.00	0.61	60.00	0.36	74.00	0.23	88.00	0.17
46.25	0.60	60.25	0.35	74.25	0.23	88.25	0.17
46.50	0.59	60.50	0.35	74.50	0.23	88.50	0.16
46.75	0.59	60.75	0.35	74.75	0.23	88.75	0.16
47.00	0.58	61.00	0.35	75.00	0.23	89.00	0.16
47.25	0.58	61.25	0.34	75.25	0.23	89.25	0.16
47.50	0.57	61.50	0.34	75.50	0.23	89.50	0.16
47.75	0.56	61.75	0.34	75.75	0.22	89.75	0.16
48.00	0.56	62.00	0.33	76.00	0.22	90.00	0.16
48.25	0.55	62.25	0.33	76.25	0.22	90.25	0.16
48.50	0.55	62.50	0.33	76.50	0.22	90.50	0.16
48.75	0.54	62.75	0.33	76.75	0.22	90.75	0.16
49.00	0.54	63.00	0.32	77.00	0.22	91.00	0.16
49.25	0.53	63.25	0.32	77.25	0.22	91.25	0.15
49.50	0.53	63.50	0.32	77.50	0.21	91.50	0.15
49.75	0.52	63.75	0.32	77.75	0.21	91.75	0.15
50.00	0.51	64.00	0.31	78.00	0.21	92.00	0.15
50.25	0.51	64.25	0.31	78.25	0.21	92.25	0.15
50.50	0.50	64.50	0.31	78.50	0.21	92.50	0.15
50.75	0.50	64.75	0.31	78.75	0.21	92.75	0.15
51.00	0.49	65.00	0.30	79.00	0.21	93.00	0.15
51.25	0.49	65.25	0.30	79.25	0.20	93.25	0.15
51.50	0.49	65.50	0.30	79.50	0.20	93.50	0.15
51.75	0.48	65.75	0.30	79.75	0.20	93.75	0.15
52.00	0.48	66.00	0.30	80.00	0.20	94.00	0.15
52.25	0.47	66.25	0.29	80.25	0.20	94.25	0.14
52.50	0.47	66.50	0.29	80.50	0.20	94.50	0.14
52.75	0.46	66.75	0.29	80.75	0.20	94.75	0.14
53.00	0.46	67.00	0.29	81.00	0.20	95.00	0.14
53.25	0.45	67.25	0.28	81.25	0.19	95.25	0.14
53.50	0.45	67.50	0.28	81.50	0.19	95.50	0.14
53.75	0.45	67.75	0.28	81.75	0.19	95.75	0.14
54.00	0.44	68.00	0.28	82.00	0.19	96.00	0.14

Table 14 – 70%

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 80% % Reflection 100%

Distance where limits are exceeded			
FCC ft.	1.51	18.1 Inches	
BioInitiative ft.	121.00	1452.0 Inches	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	11762.19	10.25	13.99	20.25	3.58	30.25	1.61
0.50	4704.88	10.50	13.33	20.50	3.50	30.50	1.58
0.75	2352.44	10.75	12.72	20.75	3.41	30.75	1.55
1.00	1383.79	11.00	12.14	21.00	3.33	31.00	1.53
1.25	904.78	11.25	11.61	21.25	3.26	31.25	1.51
1.50	635.79	11.50	11.11	21.50	3.18	31.50	1.48
1.75	470.49	11.75	10.64	21.75	3.11	31.75	1.46
2.00	361.91	12.00	10.21	22.00	3.04	32.00	1.44
2.25	286.88	12.25	9.79	22.25	2.97	32.25	1.41
2.50	232.91	12.50	9.41	22.50	2.90	32.50	1.39
2.75	192.82	12.75	9.04	22.75	2.84	32.75	1.37
3.00	162.24	13.00	8.70	23.00	2.78	33.00	1.35
3.25	138.38	13.25	8.37	23.25	2.72	33.25	1.33
3.50	119.41	13.50	8.06	23.50	2.66	33.50	1.31
3.75	104.09	13.75	7.77	23.75	2.61	33.75	1.29
4.00	91.53	14.00	7.50	24.00	2.55	34.00	1.27
4.25	81.12	14.25	7.24	24.25	2.50	34.25	1.25
4.50	72.38	14.50	6.99	24.50	2.45	34.50	1.24
4.75	64.98	14.75	6.76	24.75	2.40	34.75	1.22
5.00	58.66	15.00	6.53	25.00	2.35	35.00	1.20
5.25	53.22	15.25	6.32	25.25	2.31	35.25	1.18
5.50	48.50	15.50	6.12	25.50	2.26	35.50	1.17
5.75	44.39	15.75	5.93	25.75	2.22	35.75	1.15
6.00	40.77	16.00	5.74	26.00	2.17	36.00	1.13
6.25	37.58	16.25	5.57	26.25	2.13	36.25	1.12
6.50	34.75	16.50	5.40	26.50	2.09	36.50	1.10
6.75	32.23	16.75	5.24	26.75	2.05	36.75	1.09
7.00	29.97	17.00	5.09	27.00	2.02	37.00	1.07
7.25	27.94	17.25	4.94	27.25	1.98	37.25	1.06
7.50	26.11	17.50	4.80	27.50	1.94	37.50	1.05
7.75	24.45	17.75	4.67	27.75	1.91	37.75	1.03
8.00	22.95	18.00	4.54	28.00	1.88	38.00	1.02
8.25	21.58	18.25	4.41	28.25	1.84	38.25	1.00
8.50	20.33	18.50	4.30	28.50	1.81	38.50	0.99
8.75	19.19	18.75	4.18	28.75	1.78	38.75	0.98
9.00	18.14	19.00	4.07	29.00	1.75	39.00	0.97
9.25	17.17	19.25	3.97	29.25	1.72	39.25	0.95
9.50	16.28	19.50	3.87	29.50	1.69	39.50	0.94
9.75	15.46	19.75	3.77	29.75	1.66	39.75	0.93
10.00	14.69	20.00	3.68	30.00	1.63	40.00	0.92

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

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 80% % Reflection 100%

Distance where limits are exceeded
 FCC ft. 1.51 18.11 Inches
 BioInitiative ft. 121.00 1452.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.91	54.25	0.50	68.25	0.32	82.25	0.22
40.50	0.90	54.50	0.49	68.50	0.31	82.50	0.22
40.75	0.89	54.75	0.49	68.75	0.31	82.75	0.21
41.00	0.87	55.00	0.49	69.00	0.31	83.00	0.21
41.25	0.86	55.25	0.48	69.25	0.31	83.25	0.21
41.50	0.85	55.50	0.48	69.50	0.30	83.50	0.21
41.75	0.84	55.75	0.47	69.75	0.30	83.75	0.21
42.00	0.83	56.00	0.47	70.00	0.30	84.00	0.21
42.25	0.82	56.25	0.46	70.25	0.30	84.25	0.21
42.50	0.81	56.50	0.46	70.50	0.30	84.50	0.21
42.75	0.80	56.75	0.46	70.75	0.29	84.75	0.20
43.00	0.80	57.00	0.45	71.00	0.29	85.00	0.20
43.25	0.79	57.25	0.45	71.25	0.29	85.25	0.20
43.50	0.78	57.50	0.44	71.50	0.29	85.50	0.20
43.75	0.77	57.75	0.44	71.75	0.29	85.75	0.20
44.00	0.76	58.00	0.44	72.00	0.28	86.00	0.20
44.25	0.75	58.25	0.43	72.25	0.28	86.25	0.20
44.50	0.74	58.50	0.43	72.50	0.28	86.50	0.20
44.75	0.73	58.75	0.43	72.75	0.28	86.75	0.20
45.00	0.73	59.00	0.42	73.00	0.28	87.00	0.19
45.25	0.72	59.25	0.42	73.25	0.27	87.25	0.19
45.50	0.71	59.50	0.42	73.50	0.27	87.50	0.19
45.75	0.70	59.75	0.41	73.75	0.27	87.75	0.19
46.00	0.69	60.00	0.41	74.00	0.27	88.00	0.19
46.25	0.69	60.25	0.41	74.25	0.27	88.25	0.19
46.50	0.68	60.50	0.40	74.50	0.26	88.50	0.19
46.75	0.67	60.75	0.40	74.75	0.26	88.75	0.19
47.00	0.67	61.00	0.40	75.00	0.26	89.00	0.19
47.25	0.66	61.25	0.39	75.25	0.26	89.25	0.18
47.50	0.65	61.50	0.39	75.50	0.26	89.50	0.18
47.75	0.64	61.75	0.39	75.75	0.26	89.75	0.18
48.00	0.64	62.00	0.38	76.00	0.25	90.00	0.18
48.25	0.63	62.25	0.38	76.25	0.25	90.25	0.18
48.50	0.63	62.50	0.38	76.50	0.25	90.50	0.18
48.75	0.62	62.75	0.37	76.75	0.25	90.75	0.18
49.00	0.61	63.00	0.37	77.00	0.25	91.00	0.18
49.25	0.61	63.25	0.37	77.25	0.25	91.25	0.18
49.50	0.60	63.50	0.36	77.50	0.24	91.50	0.18
49.75	0.59	63.75	0.36	77.75	0.24	91.75	0.17
50.00	0.59	64.00	0.36	78.00	0.24	92.00	0.17
50.25	0.58	64.25	0.36	78.25	0.24	92.25	0.17
50.50	0.58	64.50	0.35	78.50	0.24	92.50	0.17
50.75	0.57	64.75	0.35	78.75	0.24	92.75	0.17
51.00	0.57	65.00	0.35	79.00	0.24	93.00	0.17
51.25	0.56	65.25	0.35	79.25	0.23	93.25	0.17
51.50	0.55	65.50	0.34	79.50	0.23	93.50	0.17
51.75	0.55	65.75	0.34	79.75	0.23	93.75	0.17
52.00	0.54	66.00	0.34	80.00	0.23	94.00	0.17
52.25	0.54	66.25	0.33	80.25	0.23	94.25	0.17
52.50	0.53	66.50	0.33	80.50	0.23	94.50	0.16
52.75	0.53	66.75	0.33	80.75	0.23	94.75	0.16
53.00	0.52	67.00	0.33	81.00	0.22	95.00	0.16
53.25	0.52	67.25	0.33	81.25	0.22	95.25	0.16
53.50	0.51	67.50	0.32	81.50	0.22	95.50	0.16
53.75	0.51	67.75	0.32	81.75	0.22	95.75	0.16
54.00	0.50	68.00	0.32	82.00	0.22	96.00	0.16

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
Time Avg: 90% % Reflection 100%

Distance where limits are exceeded	
FCC ft.	19.2 Inches
BioInitiative ft.	1542.0 Inches
1.60	
128.50	

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	13232.47	10.25	15.73	20.25	4.03	30.25	1.81
0.50	5292.99	10.50	14.99	20.50	3.94	30.50	1.78
0.75	2646.49	10.75	14.31	20.75	3.84	30.75	1.75
1.00	1556.76	11.00	13.66	21.00	3.75	31.00	1.72
1.25	1017.88	11.25	13.06	21.25	3.66	31.25	1.69
1.50	715.27	11.50	12.50	21.50	3.58	31.50	1.67
1.75	529.30	11.75	11.98	21.75	3.50	31.75	1.64
2.00	407.15	12.00	11.48	22.00	3.42	32.00	1.62
2.25	322.74	12.25	11.02	22.25	3.34	32.25	1.59
2.50	262.03	12.50	10.58	22.50	3.27	32.50	1.57
2.75	216.93	12.75	10.17	22.75	3.20	32.75	1.54
3.00	182.52	13.00	9.78	23.00	3.13	33.00	1.52
3.25	155.68	13.25	9.42	23.25	3.06	33.25	1.50
3.50	134.34	13.50	9.07	23.50	2.99	33.50	1.47
3.75	117.10	13.75	8.75	23.75	2.93	33.75	1.45
4.00	102.98	14.00	8.44	24.00	2.87	34.00	1.43
4.25	91.26	14.25	8.14	24.25	2.81	34.25	1.41
4.50	81.43	14.50	7.86	24.50	2.76	34.50	1.39
4.75	73.11	14.75	7.60	24.75	2.70	34.75	1.37
5.00	66.00	15.00	7.35	25.00	2.65	35.00	1.35
5.25	59.88	15.25	7.11	25.25	2.59	35.25	1.33
5.50	54.57	15.50	6.88	25.50	2.54	35.50	1.31
5.75	49.93	15.75	6.67	25.75	2.49	35.75	1.29
6.00	45.87	16.00	6.46	26.00	2.45	36.00	1.28
6.25	42.28	16.25	6.26	26.25	2.40	36.25	1.26
6.50	39.09	16.50	6.07	26.50	2.36	36.50	1.24
6.75	36.25	16.75	5.89	26.75	2.31	36.75	1.22
7.00	33.71	17.00	5.72	27.00	2.27	37.00	1.21
7.25	31.43	17.25	5.56	27.25	2.23	37.25	1.19
7.50	29.37	17.50	5.40	27.50	2.19	37.50	1.18
7.75	27.51	17.75	5.25	27.75	2.15	37.75	1.16
8.00	25.82	18.00	5.10	28.00	2.11	38.00	1.15
8.25	24.28	18.25	4.97	28.25	2.07	38.25	1.13
8.50	22.87	18.50	4.83	28.50	2.04	38.50	1.12
8.75	21.59	18.75	4.70	28.75	2.00	38.75	1.10
9.00	20.40	19.00	4.58	29.00	1.97	39.00	1.09
9.25	19.32	19.25	4.46	29.25	1.93	39.25	1.07
9.50	18.31	19.50	4.35	29.50	1.90	39.50	1.06
9.75	17.39	19.75	4.24	29.75	1.87	39.75	1.05
10.00	16.53	20.00	4.13	30.00	1.84	40.00	1.03

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

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters
 Time Avg: 90% % Reflection 100%

Distance where limits are exceeded
 FCC ft. 1.60 19.23 Inches
 BioInitiative ft. 128.50 1542.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	1.02	54.25	0.56	68.25	0.36	82.25	0.24
40.50	1.01	54.50	0.56	68.50	0.35	82.50	0.24
40.75	1.00	54.75	0.55	68.75	0.35	82.75	0.24
41.00	0.98	55.00	0.55	69.00	0.35	83.00	0.24
41.25	0.97	55.25	0.54	69.25	0.34	83.25	0.24
41.50	0.96	55.50	0.54	69.50	0.34	83.50	0.24
41.75	0.95	55.75	0.53	69.75	0.34	83.75	0.24
42.00	0.94	56.00	0.53	70.00	0.34	84.00	0.23
42.25	0.93	56.25	0.52	70.25	0.34	84.25	0.23
42.50	0.92	56.50	0.52	70.50	0.33	84.50	0.23
42.75	0.91	56.75	0.51	70.75	0.33	84.75	0.23
43.00	0.89	57.00	0.51	71.00	0.33	85.00	0.23
43.25	0.88	57.25	0.50	71.25	0.33	85.25	0.23
43.50	0.87	57.50	0.50	71.50	0.32	85.50	0.23
43.75	0.86	57.75	0.50	71.75	0.32	85.75	0.22
44.00	0.85	58.00	0.49	72.00	0.32	86.00	0.22
44.25	0.84	58.25	0.49	72.25	0.32	86.25	0.22
44.50	0.84	58.50	0.48	72.50	0.31	86.50	0.22
44.75	0.83	58.75	0.48	72.75	0.31	86.75	0.22
45.00	0.82	59.00	0.48	73.00	0.31	87.00	0.22
45.25	0.81	59.25	0.47	73.25	0.31	87.25	0.22
45.50	0.80	59.50	0.47	73.50	0.31	87.50	0.22
45.75	0.79	59.75	0.46	73.75	0.30	87.75	0.21
46.00	0.78	60.00	0.46	74.00	0.30	88.00	0.21
46.25	0.77	60.25	0.46	74.25	0.30	88.25	0.21
46.50	0.76	60.50	0.45	74.50	0.30	88.50	0.21
46.75	0.76	60.75	0.45	74.75	0.30	88.75	0.21
47.00	0.75	61.00	0.44	75.00	0.29	89.00	0.21
47.25	0.74	61.25	0.44	75.25	0.29	89.25	0.21
47.50	0.73	61.50	0.44	75.50	0.29	89.50	0.21
47.75	0.73	61.75	0.43	75.75	0.29	89.75	0.21
48.00	0.72	62.00	0.43	76.00	0.29	90.00	0.20
48.25	0.71	62.25	0.43	76.25	0.28	90.25	0.20
48.50	0.70	62.50	0.42	76.50	0.28	90.50	0.20
48.75	0.70	62.75	0.42	76.75	0.28	90.75	0.20
49.00	0.69	63.00	0.42	77.00	0.28	91.00	0.20
49.25	0.68	63.25	0.41	77.25	0.28	91.25	0.20
49.50	0.68	63.50	0.41	77.50	0.28	91.50	0.20
49.75	0.67	63.75	0.41	77.75	0.27	91.75	0.20
50.00	0.66	64.00	0.40	78.00	0.27	92.00	0.20
50.25	0.66	64.25	0.40	78.25	0.27	92.25	0.19
50.50	0.65	64.50	0.40	78.50	0.27	92.50	0.19
50.75	0.64	64.75	0.39	78.75	0.27	92.75	0.19
51.00	0.64	65.00	0.39	79.00	0.27	93.00	0.19
51.25	0.63	65.25	0.39	79.25	0.26	93.25	0.19
51.50	0.62	65.50	0.39	79.50	0.26	93.50	0.19
51.75	0.62	65.75	0.38	79.75	0.26	93.75	0.19
52.00	0.61	66.00	0.38	80.00	0.26	94.00	0.19
52.25	0.61	66.25	0.38	80.25	0.26	94.25	0.19
52.50	0.60	66.50	0.37	80.50	0.26	94.50	0.19
52.75	0.59	66.75	0.37	80.75	0.25	94.75	0.18
53.00	0.59	67.00	0.37	81.00	0.25	95.00	0.18
53.25	0.58	67.25	0.37	81.25	0.25	95.25	0.18
53.50	0.58	67.50	0.36	81.50	0.25	95.50	0.18
53.75	0.57	67.75	0.36	81.75	0.25	95.75	0.18
54.00	0.57	68.00	0.36	82.00	0.25	96.00	0.18

SMART Meter Power Density Computer Modeling

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters

Time Avg: 100%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.69 20.3 Inches

BioInitiative ft. 135.50 1626.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	14702.74	10.25	17.48	20.25	4.48	30.25	2.01
0.50	5881.10	10.50	16.66	20.50	4.37	30.50	1.98
0.75	2940.55	10.75	15.89	20.75	4.27	30.75	1.94
1.00	1729.73	11.00	15.18	21.00	4.17	31.00	1.91
1.25	1130.98	11.25	14.51	21.25	4.07	31.25	1.88
1.50	794.74	11.50	13.89	21.50	3.98	31.50	1.85
1.75	588.11	11.75	13.31	21.75	3.88	31.75	1.82
2.00	452.39	12.00	12.76	22.00	3.80	32.00	1.79
2.25	358.60	12.25	12.24	22.25	3.71	32.25	1.77
2.50	291.14	12.50	11.76	22.50	3.63	32.50	1.74
2.75	241.03	12.75	11.30	22.75	3.55	32.75	1.71
3.00	202.80	13.00	10.87	23.00	3.47	33.00	1.69
3.25	172.97	13.25	10.46	23.25	3.40	33.25	1.66
3.50	149.27	13.50	10.08	23.50	3.33	33.50	1.64
3.75	130.11	13.75	9.72	23.75	3.26	33.75	1.61
4.00	114.42	14.00	9.37	24.00	3.19	34.00	1.59
4.25	101.40	14.25	9.05	24.25	3.12	34.25	1.57
4.50	90.48	14.50	8.74	24.50	3.06	34.50	1.54
4.75	81.23	14.75	8.44	24.75	3.00	34.75	1.52
5.00	73.33	15.00	8.17	25.00	2.94	35.00	1.50
5.25	66.53	15.25	7.90	25.25	2.88	35.25	1.48
5.50	60.63	15.50	7.65	25.50	2.83	35.50	1.46
5.75	55.48	15.75	7.41	25.75	2.77	35.75	1.44
6.00	50.96	16.00	7.18	26.00	2.72	36.00	1.42
6.25	46.97	16.25	6.96	26.25	2.67	36.25	1.40
6.50	43.43	16.50	6.75	26.50	2.62	36.50	1.38
6.75	40.28	16.75	6.55	26.75	2.57	36.75	1.36
7.00	37.46	17.00	6.36	27.00	2.52	37.00	1.34
7.25	34.92	17.25	6.18	27.25	2.47	37.25	1.32
7.50	32.64	17.50	6.00	27.50	2.43	37.50	1.31
7.75	30.57	17.75	5.83	27.75	2.39	37.75	1.29
8.00	28.69	18.00	5.67	28.00	2.34	38.00	1.27
8.25	26.98	18.25	5.52	28.25	2.30	38.25	1.26
8.50	25.42	18.50	5.37	28.50	2.26	38.50	1.24
8.75	23.98	18.75	5.23	28.75	2.22	38.75	1.22
9.00	22.67	19.00	5.09	29.00	2.19	39.00	1.21
9.25	21.46	19.25	4.96	29.25	2.15	39.25	1.19
9.50	20.35	19.50	4.83	29.50	2.11	39.50	1.18
9.75	19.32	19.75	4.71	29.75	2.08	39.75	1.16
10.00	18.37	20.00	4.59	30.00	2.04	40.00	1.15

Notes:

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

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

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

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

$$\pi() = 3.14159$$

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

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

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

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

(1 Collector Meter - 7 SMART Meters – 100% reflections)

Meters 1 Collector Meter - 7 SMART Meters

Time Avg: 100%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.69

20.30 Inches

BioInitiative ft. 135.50

1626.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	1.13	54.25	0.62	68.25	0.39	82.25	0.27
40.50	1.12	54.50	0.62	68.50	0.39	82.50	0.27
40.75	1.11	54.75	0.61	68.75	0.39	82.75	0.27
41.00	1.09	55.00	0.61	69.00	0.39	83.00	0.27
41.25	1.08	55.25	0.60	69.25	0.38	83.25	0.27
41.50	1.07	55.50	0.60	69.50	0.38	83.50	0.26
41.75	1.05	55.75	0.59	69.75	0.38	83.75	0.26
42.00	1.04	56.00	0.59	70.00	0.38	84.00	0.26
42.25	1.03	56.25	0.58	70.25	0.37	84.25	0.26
42.50	1.02	56.50	0.58	70.50	0.37	84.50	0.26
42.75	1.01	56.75	0.57	70.75	0.37	84.75	0.26
43.00	0.99	57.00	0.57	71.00	0.36	85.00	0.25
43.25	0.98	57.25	0.56	71.25	0.36	85.25	0.25
43.50	0.97	57.50	0.56	71.50	0.36	85.50	0.25
43.75	0.96	57.75	0.55	71.75	0.36	85.75	0.25
44.00	0.95	58.00	0.55	72.00	0.35	86.00	0.25
44.25	0.94	58.25	0.54	72.25	0.35	86.25	0.25
44.50	0.93	58.50	0.54	72.50	0.35	86.50	0.25
44.75	0.92	58.75	0.53	72.75	0.35	86.75	0.24
45.00	0.91	59.00	0.53	73.00	0.34	87.00	0.24
45.25	0.90	59.25	0.52	73.25	0.34	87.25	0.24
45.50	0.89	59.50	0.52	73.50	0.34	87.50	0.24
45.75	0.88	59.75	0.51	73.75	0.34	87.75	0.24
46.00	0.87	60.00	0.51	74.00	0.34	88.00	0.24
46.25	0.86	60.25	0.51	74.25	0.33	88.25	0.24
46.50	0.85	60.50	0.50	74.50	0.33	88.50	0.23
46.75	0.84	60.75	0.50	74.75	0.33	88.75	0.23
47.00	0.83	61.00	0.49	75.00	0.33	89.00	0.23
47.25	0.82	61.25	0.49	75.25	0.32	89.25	0.23
47.50	0.81	61.50	0.49	75.50	0.32	89.50	0.23
47.75	0.81	61.75	0.48	75.75	0.32	89.75	0.23
48.00	0.80	62.00	0.48	76.00	0.32	90.00	0.23
48.25	0.79	62.25	0.47	76.25	0.32	90.25	0.23
48.50	0.78	62.50	0.47	76.50	0.31	90.50	0.22
48.75	0.77	62.75	0.47	76.75	0.31	90.75	0.22
49.00	0.77	63.00	0.46	77.00	0.31	91.00	0.22
49.25	0.76	63.25	0.46	77.25	0.31	91.25	0.22
49.50	0.75	63.50	0.46	77.50	0.31	91.50	0.22
49.75	0.74	63.75	0.45	77.75	0.30	91.75	0.22
50.00	0.74	64.00	0.45	78.00	0.30	92.00	0.22
50.25	0.73	64.25	0.45	78.25	0.30	92.25	0.22
50.50	0.72	64.50	0.44	78.50	0.30	92.50	0.21
50.75	0.71	64.75	0.44	78.75	0.30	92.75	0.21
51.00	0.71	65.00	0.43	79.00	0.29	93.00	0.21
51.25	0.70	65.25	0.43	79.25	0.29	93.25	0.21
51.50	0.69	65.50	0.43	79.50	0.29	93.50	0.21
51.75	0.69	65.75	0.43	79.75	0.29	93.75	0.21
52.00	0.68	66.00	0.42	80.00	0.29	94.00	0.21
52.25	0.67	66.25	0.42	80.25	0.29	94.25	0.21
52.50	0.67	66.50	0.42	80.50	0.28	94.50	0.21
52.75	0.66	66.75	0.41	80.75	0.28	94.75	0.20
53.00	0.65	67.00	0.41	81.00	0.28	95.00	0.20
53.25	0.65	67.25	0.41	81.25	0.28	95.25	0.20
53.50	0.64	67.50	0.40	81.50	0.28	95.50	0.20
53.75	0.64	67.75	0.40	81.75	0.27	95.75	0.20
54.00	0.63	68.00	0.40	82.00	0.27	96.00	0.20

Table 14 – 100%