

SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 1%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.04 0.5 Inches

BioInitiative ft. 3.43 41.2 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	18.84	10.25	0.01	20.25	0.00	30.25	0.00
0.50	4.71	10.50	0.01	20.50	0.00	30.50	0.00
0.75	2.09	10.75	0.01	20.75	0.00	30.75	0.00
1.00	1.18	11.00	0.01	21.00	0.00	31.00	0.00
1.25	0.75	11.25	0.01	21.25	0.00	31.25	0.00
1.50	0.52	11.50	0.01	21.50	0.00	31.50	0.00
1.75	0.38	11.75	0.01	21.75	0.00	31.75	0.00
2.00	0.29	12.00	0.01	22.00	0.00	32.00	0.00
2.25	0.23	12.25	0.01	22.25	0.00	32.25	0.00
2.50	0.19	12.50	0.01	22.50	0.00	32.50	0.00
2.75	0.16	12.75	0.01	22.75	0.00	32.75	0.00
3.00	0.13	13.00	0.01	23.00	0.00	33.00	0.00
3.25	0.11	13.25	0.01	23.25	0.00	33.25	0.00
3.50	0.10	13.50	0.01	23.50	0.00	33.50	0.00
3.75	0.08	13.75	0.01	23.75	0.00	33.75	0.00
4.00	0.07	14.00	0.01	24.00	0.00	34.00	0.00
4.25	0.07	14.25	0.01	24.25	0.00	34.25	0.00
4.50	0.06	14.50	0.01	24.50	0.00	34.50	0.00
4.75	0.05	14.75	0.01	24.75	0.00	34.75	0.00
5.00	0.05	15.00	0.01	25.00	0.00	35.00	0.00
5.25	0.04	15.25	0.01	25.25	0.00	35.25	0.00
5.50	0.04	15.50	0.00	25.50	0.00	35.50	0.00
5.75	0.04	15.75	0.00	25.75	0.00	35.75	0.00
6.00	0.03	16.00	0.00	26.00	0.00	36.00	0.00
6.25	0.03	16.25	0.00	26.25	0.00	36.25	0.00
6.50	0.03	16.50	0.00	26.50	0.00	36.50	0.00
6.75	0.03	16.75	0.00	26.75	0.00	36.75	0.00
7.00	0.02	17.00	0.00	27.00	0.00	37.00	0.00
7.25	0.02	17.25	0.00	27.25	0.00	37.25	0.00
7.50	0.02	17.50	0.00	27.50	0.00	37.50	0.00
7.75	0.02	17.75	0.00	27.75	0.00	37.75	0.00
8.00	0.02	18.00	0.00	28.00	0.00	38.00	0.00
8.25	0.02	18.25	0.00	28.25	0.00	38.25	0.00
8.50	0.02	18.50	0.00	28.50	0.00	38.50	0.00
8.75	0.02	18.75	0.00	28.75	0.00	38.75	0.00
9.00	0.01	19.00	0.00	29.00	0.00	39.00	0.00
9.25	0.01	19.25	0.00	29.25	0.00	39.25	0.00
9.50	0.01	19.50	0.00	29.50	0.00	39.50	0.00
9.75	0.01	19.75	0.00	29.75	0.00	39.75	0.00
10.00	0.01	20.00	0.00	30.00	0.00	40.00	0.00

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 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 1%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.04

0.51 Inches

BioInitiative ft. 3.43

41.16 Inches

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

Table 1 – 1%

SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 10%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.13 1.6 Inches

BioInitiative ft. 10.85 130.2 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	188.39	10.25	0.11	20.25	0.03	30.25	0.01
0.50	47.10	10.50	0.11	20.50	0.03	30.50	0.01
0.75	20.93	10.75	0.10	20.75	0.03	30.75	0.01
1.00	11.77	11.00	0.10	21.00	0.03	31.00	0.01
1.25	7.54	11.25	0.09	21.25	0.03	31.25	0.01
1.50	5.23	11.50	0.09	21.50	0.03	31.50	0.01
1.75	3.84	11.75	0.09	21.75	0.02	31.75	0.01
2.00	2.94	12.00	0.08	22.00	0.02	32.00	0.01
2.25	2.33	12.25	0.08	22.25	0.02	32.25	0.01
2.50	1.88	12.50	0.08	22.50	0.02	32.50	0.01
2.75	1.56	12.75	0.07	22.75	0.02	32.75	0.01
3.00	1.31	13.00	0.07	23.00	0.02	33.00	0.01
3.25	1.11	13.25	0.07	23.25	0.02	33.25	0.01
3.50	0.96	13.50	0.06	23.50	0.02	33.50	0.01
3.75	0.84	13.75	0.06	23.75	0.02	33.75	0.01
4.00	0.74	14.00	0.06	24.00	0.02	34.00	0.01
4.25	0.65	14.25	0.06	24.25	0.02	34.25	0.01
4.50	0.58	14.50	0.06	24.50	0.02	34.50	0.01
4.75	0.52	14.75	0.05	24.75	0.02	34.75	0.01
5.00	0.47	15.00	0.05	25.00	0.02	35.00	0.01
5.25	0.43	15.25	0.05	25.25	0.02	35.25	0.01
5.50	0.39	15.50	0.05	25.50	0.02	35.50	0.01
5.75	0.36	15.75	0.05	25.75	0.02	35.75	0.01
6.00	0.33	16.00	0.05	26.00	0.02	36.00	0.01
6.25	0.30	16.25	0.04	26.25	0.02	36.25	0.01
6.50	0.28	16.50	0.04	26.50	0.02	36.50	0.01
6.75	0.26	16.75	0.04	26.75	0.02	36.75	0.01
7.00	0.24	17.00	0.04	27.00	0.02	37.00	0.01
7.25	0.22	17.25	0.04	27.25	0.02	37.25	0.01
7.50	0.21	17.50	0.04	27.50	0.02	37.50	0.01
7.75	0.20	17.75	0.04	27.75	0.02	37.75	0.01
8.00	0.18	18.00	0.04	28.00	0.02	38.00	0.01
8.25	0.17	18.25	0.04	28.25	0.01	38.25	0.01
8.50	0.16	18.50	0.03	28.50	0.01	38.50	0.01
8.75	0.15	18.75	0.03	28.75	0.01	38.75	0.01
9.00	0.15	19.00	0.03	29.00	0.01	39.00	0.01
9.25	0.14	19.25	0.03	29.25	0.01	39.25	0.01
9.50	0.13	19.50	0.03	29.50	0.01	39.50	0.01
9.75	0.12	19.75	0.03	29.75	0.01	39.75	0.01
10.00	0.12	20.00	0.03	30.00	0.01	40.00	0.01

Notes:

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

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
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 - R = Distance to device
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- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
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- TPO 0.267 watts at 902.25 to 927.75 MHz from TCB Grant of Equipment Authorization (SK9AMI-4)
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SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 10%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.13

1.61 Inches

BioInitiative ft. 10.85

130.20 Inches

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

Table 1 – 10%

SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 20%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.19 2.3 Inches

BioInitiative ft. 15.34 184.1 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	376.78	10.25	0.22	20.25	0.06	30.25	0.03
0.50	94.20	10.50	0.21	20.50	0.06	30.50	0.03
0.75	41.86	10.75	0.20	20.75	0.05	30.75	0.02
1.00	23.55	11.00	0.19	21.00	0.05	31.00	0.02
1.25	15.07	11.25	0.19	21.25	0.05	31.25	0.02
1.50	10.47	11.50	0.18	21.50	0.05	31.50	0.02
1.75	7.69	11.75	0.17	21.75	0.05	31.75	0.02
2.00	5.89	12.00	0.16	22.00	0.05	32.00	0.02
2.25	4.65	12.25	0.16	22.25	0.05	32.25	0.02
2.50	3.77	12.50	0.15	22.50	0.05	32.50	0.02
2.75	3.11	12.75	0.14	22.75	0.05	32.75	0.02
3.00	2.62	13.00	0.14	23.00	0.04	33.00	0.02
3.25	2.23	13.25	0.13	23.25	0.04	33.25	0.02
3.50	1.92	13.50	0.13	23.50	0.04	33.50	0.02
3.75	1.67	13.75	0.12	23.75	0.04	33.75	0.02
4.00	1.47	14.00	0.12	24.00	0.04	34.00	0.02
4.25	1.30	14.25	0.12	24.25	0.04	34.25	0.02
4.50	1.16	14.50	0.11	24.50	0.04	34.50	0.02
4.75	1.04	14.75	0.11	24.75	0.04	34.75	0.02
5.00	0.94	15.00	0.10	25.00	0.04	35.00	0.02
5.25	0.85	15.25	0.10	25.25	0.04	35.25	0.02
5.50	0.78	15.50	0.10	25.50	0.04	35.50	0.02
5.75	0.71	15.75	0.09	25.75	0.04	35.75	0.02
6.00	0.65	16.00	0.09	26.00	0.03	36.00	0.02
6.25	0.60	16.25	0.09	26.25	0.03	36.25	0.02
6.50	0.56	16.50	0.09	26.50	0.03	36.50	0.02
6.75	0.52	16.75	0.08	26.75	0.03	36.75	0.02
7.00	0.48	17.00	0.08	27.00	0.03	37.00	0.02
7.25	0.45	17.25	0.08	27.25	0.03	37.25	0.02
7.50	0.42	17.50	0.08	27.50	0.03	37.50	0.02
7.75	0.39	17.75	0.07	27.75	0.03	37.75	0.02
8.00	0.37	18.00	0.07	28.00	0.03	38.00	0.02
8.25	0.35	18.25	0.07	28.25	0.03	38.25	0.02
8.50	0.33	18.50	0.07	28.50	0.03	38.50	0.02
8.75	0.31	18.75	0.07	28.75	0.03	38.75	0.02
9.00	0.29	19.00	0.07	29.00	0.03	39.00	0.02
9.25	0.28	19.25	0.06	29.25	0.03	39.25	0.02
9.50	0.26	19.50	0.06	29.50	0.03	39.50	0.02
9.75	0.25	19.75	0.06	29.75	0.03	39.75	0.01
10.00	0.24	20.00	0.06	30.00	0.03	40.00	0.01

Notes:

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

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

Table 1 – 20%

SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 20%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.19

2.28 Inches

BioInitiative ft. 15.34

184.08 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	0.01	82.25	0.00
40.50	0.01	54.50	0.01	68.50	0.01	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	0.01	74.75	0.00	88.75	0.00
47.00	0.01	61.00	0.01	75.00	0.00	89.00	0.00
47.25	0.01	61.25	0.01	75.25	0.00	89.25	0.00
47.50	0.01	61.50	0.01	75.50	0.00	89.50	0.00
47.75	0.01	61.75	0.01	75.75	0.00	89.75	0.00
48.00	0.01	62.00	0.01	76.00	0.00	90.00	0.00
48.25	0.01	62.25	0.01	76.25	0.00	90.25	0.00
48.50	0.01	62.50	0.01	76.50	0.00	90.50	0.00
48.75	0.01	62.75	0.01	76.75	0.00	90.75	0.00
49.00	0.01	63.00	0.01	77.00	0.00	91.00	0.00
49.25	0.01	63.25	0.01	77.25	0.00	91.25	0.00
49.50	0.01	63.50	0.01	77.50	0.00	91.50	0.00
49.75	0.01	63.75	0.01	77.75	0.00	91.75	0.00
50.00	0.01	64.00	0.01	78.00	0.00	92.00	0.00
50.25	0.01	64.25	0.01	78.25	0.00	92.25	0.00
50.50	0.01	64.50	0.01	78.50	0.00	92.50	0.00
50.75	0.01	64.75	0.01	78.75	0.00	92.75	0.00
51.00	0.01	65.00	0.01	79.00	0.00	93.00	0.00
51.25	0.01	65.25	0.01	79.25	0.00	93.25	0.00
51.50	0.01	65.50	0.01	79.50	0.00	93.50	0.00
51.75	0.01	65.75	0.01	79.75	0.00	93.75	0.00
52.00	0.01	66.00	0.01	80.00	0.00	94.00	0.00
52.25	0.01	66.25	0.01	80.25	0.00	94.25	0.00
52.50	0.01	66.50	0.01	80.50	0.00	94.50	0.00
52.75	0.01	66.75	0.01	80.75	0.00	94.75	0.00
53.00	0.01	67.00	0.01	81.00	0.00	95.00	0.00
53.25	0.01	67.25	0.01	81.25	0.00	95.25	0.00
53.50	0.01	67.50	0.01	81.50	0.00	95.50	0.00
53.75	0.01	67.75	0.01	81.75	0.00	95.75	0.00
54.00	0.01	68.00	0.01	82.00	0.00	96.00	0.00

Table 1 – 20%

SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 30%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.23 2.8 Inches

BioInitiative ft. 18.80 225.6 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	565.17	10.25	0.34	20.25	0.09	30.25	0.04
0.50	141.29	10.50	0.32	20.50	0.08	30.50	0.04
0.75	62.80	10.75	0.31	20.75	0.08	30.75	0.04
1.00	35.32	11.00	0.29	21.00	0.08	31.00	0.04
1.25	22.61	11.25	0.28	21.25	0.08	31.25	0.04
1.50	15.70	11.50	0.27	21.50	0.08	31.50	0.04
1.75	11.53	11.75	0.26	21.75	0.07	31.75	0.04
2.00	8.83	12.00	0.25	22.00	0.07	32.00	0.03
2.25	6.98	12.25	0.24	22.25	0.07	32.25	0.03
2.50	5.65	12.50	0.23	22.50	0.07	32.50	0.03
2.75	4.67	12.75	0.22	22.75	0.07	32.75	0.03
3.00	3.92	13.00	0.21	23.00	0.07	33.00	0.03
3.25	3.34	13.25	0.20	23.25	0.07	33.25	0.03
3.50	2.88	13.50	0.19	23.50	0.06	33.50	0.03
3.75	2.51	13.75	0.19	23.75	0.06	33.75	0.03
4.00	2.21	14.00	0.18	24.00	0.06	34.00	0.03
4.25	1.96	14.25	0.17	24.25	0.06	34.25	0.03
4.50	1.74	14.50	0.17	24.50	0.06	34.50	0.03
4.75	1.57	14.75	0.16	24.75	0.06	34.75	0.03
5.00	1.41	15.00	0.16	25.00	0.06	35.00	0.03
5.25	1.28	15.25	0.15	25.25	0.06	35.25	0.03
5.50	1.17	15.50	0.15	25.50	0.05	35.50	0.03
5.75	1.07	15.75	0.14	25.75	0.05	35.75	0.03
6.00	0.98	16.00	0.14	26.00	0.05	36.00	0.03
6.25	0.90	16.25	0.13	26.25	0.05	36.25	0.03
6.50	0.84	16.50	0.13	26.50	0.05	36.50	0.03
6.75	0.78	16.75	0.13	26.75	0.05	36.75	0.03
7.00	0.72	17.00	0.12	27.00	0.05	37.00	0.03
7.25	0.67	17.25	0.12	27.25	0.05	37.25	0.03
7.50	0.63	17.50	0.12	27.50	0.05	37.50	0.03
7.75	0.59	17.75	0.11	27.75	0.05	37.75	0.02
8.00	0.55	18.00	0.11	28.00	0.05	38.00	0.02
8.25	0.52	18.25	0.11	28.25	0.04	38.25	0.02
8.50	0.49	18.50	0.10	28.50	0.04	38.50	0.02
8.75	0.46	18.75	0.10	28.75	0.04	38.75	0.02
9.00	0.44	19.00	0.10	29.00	0.04	39.00	0.02
9.25	0.41	19.25	0.10	29.25	0.04	39.25	0.02
9.50	0.39	19.50	0.09	29.50	0.04	39.50	0.02
9.75	0.37	19.75	0.09	29.75	0.04	39.75	0.02
10.00	0.35	20.00	0.09	30.00	0.04	40.00	0.02

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 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 30%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.23

2.79 Inches

BioInitiative ft. 18.80

225.60 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.02	54.25	0.01	68.25	0.01	82.25	0.01
40.50	0.02	54.50	0.01	68.50	0.01	82.50	0.01
40.75	0.02	54.75	0.01	68.75	0.01	82.75	0.01
41.00	0.02	55.00	0.01	69.00	0.01	83.00	0.01
41.25	0.02	55.25	0.01	69.25	0.01	83.25	0.01
41.50	0.02	55.50	0.01	69.50	0.01	83.50	0.01
41.75	0.02	55.75	0.01	69.75	0.01	83.75	0.01
42.00	0.02	56.00	0.01	70.00	0.01	84.00	0.01
42.25	0.02	56.25	0.01	70.25	0.01	84.25	0.00
42.50	0.02	56.50	0.01	70.50	0.01	84.50	0.00
42.75	0.02	56.75	0.01	70.75	0.01	84.75	0.00
43.00	0.02	57.00	0.01	71.00	0.01	85.00	0.00
43.25	0.02	57.25	0.01	71.25	0.01	85.25	0.00
43.50	0.02	57.50	0.01	71.50	0.01	85.50	0.00
43.75	0.02	57.75	0.01	71.75	0.01	85.75	0.00
44.00	0.02	58.00	0.01	72.00	0.01	86.00	0.00
44.25	0.02	58.25	0.01	72.25	0.01	86.25	0.00
44.50	0.02	58.50	0.01	72.50	0.01	86.50	0.00
44.75	0.02	58.75	0.01	72.75	0.01	86.75	0.00
45.00	0.02	59.00	0.01	73.00	0.01	87.00	0.00
45.25	0.02	59.25	0.01	73.25	0.01	87.25	0.00
45.50	0.02	59.50	0.01	73.50	0.01	87.50	0.00
45.75	0.02	59.75	0.01	73.75	0.01	87.75	0.00
46.00	0.02	60.00	0.01	74.00	0.01	88.00	0.00
46.25	0.02	60.25	0.01	74.25	0.01	88.25	0.00
46.50	0.02	60.50	0.01	74.50	0.01	88.50	0.00
46.75	0.02	60.75	0.01	74.75	0.01	88.75	0.00
47.00	0.02	61.00	0.01	75.00	0.01	89.00	0.00
47.25	0.02	61.25	0.01	75.25	0.01	89.25	0.00
47.50	0.02	61.50	0.01	75.50	0.01	89.50	0.00
47.75	0.02	61.75	0.01	75.75	0.01	89.75	0.00
48.00	0.02	62.00	0.01	76.00	0.01	90.00	0.00
48.25	0.02	62.25	0.01	76.25	0.01	90.25	0.00
48.50	0.02	62.50	0.01	76.50	0.01	90.50	0.00
48.75	0.01	62.75	0.01	76.75	0.01	90.75	0.00
49.00	0.01	63.00	0.01	77.00	0.01	91.00	0.00
49.25	0.01	63.25	0.01	77.25	0.01	91.25	0.00
49.50	0.01	63.50	0.01	77.50	0.01	91.50	0.00
49.75	0.01	63.75	0.01	77.75	0.01	91.75	0.00
50.00	0.01	64.00	0.01	78.00	0.01	92.00	0.00
50.25	0.01	64.25	0.01	78.25	0.01	92.25	0.00
50.50	0.01	64.50	0.01	78.50	0.01	92.50	0.00
50.75	0.01	64.75	0.01	78.75	0.01	92.75	0.00
51.00	0.01	65.00	0.01	79.00	0.01	93.00	0.00
51.25	0.01	65.25	0.01	79.25	0.01	93.25	0.00
51.50	0.01	65.50	0.01	79.50	0.01	93.50	0.00
51.75	0.01	65.75	0.01	79.75	0.01	93.75	0.00
52.00	0.01	66.00	0.01	80.00	0.01	94.00	0.00
52.25	0.01	66.25	0.01	80.25	0.01	94.25	0.00
52.50	0.01	66.50	0.01	80.50	0.01	94.50	0.00
52.75	0.01	66.75	0.01	80.75	0.01	94.75	0.00
53.00	0.01	67.00	0.01	81.00	0.01	95.00	0.00
53.25	0.01	67.25	0.01	81.25	0.01	95.25	0.00
53.50	0.01	67.50	0.01	81.50	0.01	95.50	0.00
53.75	0.01	67.75	0.01	81.75	0.01	95.75	0.00
54.00	0.01	68.00	0.01	82.00	0.01	96.00	0.00

Table 1 – 30%

SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 40%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.27 3.2 Inches

BioInitiative ft. 21.70 260.4 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	753.56	10.25	0.45	20.25	0.11	30.25	0.05
0.50	188.39	10.50	0.43	20.50	0.11	30.50	0.05
0.75	83.73	10.75	0.41	20.75	0.11	30.75	0.05
1.00	47.10	11.00	0.39	21.00	0.11	31.00	0.05
1.25	30.14	11.25	0.37	21.25	0.10	31.25	0.05
1.50	20.93	11.50	0.36	21.50	0.10	31.50	0.05
1.75	15.38	11.75	0.34	21.75	0.10	31.75	0.05
2.00	11.77	12.00	0.33	22.00	0.10	32.00	0.05
2.25	9.30	12.25	0.31	22.25	0.10	32.25	0.05
2.50	7.54	12.50	0.30	22.50	0.09	32.50	0.04
2.75	6.23	12.75	0.29	22.75	0.09	32.75	0.04
3.00	5.23	13.00	0.28	23.00	0.09	33.00	0.04
3.25	4.46	13.25	0.27	23.25	0.09	33.25	0.04
3.50	3.84	13.50	0.26	23.50	0.09	33.50	0.04
3.75	3.35	13.75	0.25	23.75	0.08	33.75	0.04
4.00	2.94	14.00	0.24	24.00	0.08	34.00	0.04
4.25	2.61	14.25	0.23	24.25	0.08	34.25	0.04
4.50	2.33	14.50	0.22	24.50	0.08	34.50	0.04
4.75	2.09	14.75	0.22	24.75	0.08	34.75	0.04
5.00	1.88	15.00	0.21	25.00	0.08	35.00	0.04
5.25	1.71	15.25	0.20	25.25	0.07	35.25	0.04
5.50	1.56	15.50	0.20	25.50	0.07	35.50	0.04
5.75	1.42	15.75	0.19	25.75	0.07	35.75	0.04
6.00	1.31	16.00	0.18	26.00	0.07	36.00	0.04
6.25	1.21	16.25	0.18	26.25	0.07	36.25	0.04
6.50	1.11	16.50	0.17	26.50	0.07	36.50	0.04
6.75	1.03	16.75	0.17	26.75	0.07	36.75	0.03
7.00	0.96	17.00	0.16	27.00	0.06	37.00	0.03
7.25	0.90	17.25	0.16	27.25	0.06	37.25	0.03
7.50	0.84	17.50	0.15	27.50	0.06	37.50	0.03
7.75	0.78	17.75	0.15	27.75	0.06	37.75	0.03
8.00	0.74	18.00	0.15	28.00	0.06	38.00	0.03
8.25	0.69	18.25	0.14	28.25	0.06	38.25	0.03
8.50	0.65	18.50	0.14	28.50	0.06	38.50	0.03
8.75	0.62	18.75	0.13	28.75	0.06	38.75	0.03
9.00	0.58	19.00	0.13	29.00	0.06	39.00	0.03
9.25	0.55	19.25	0.13	29.25	0.06	39.25	0.03
9.50	0.52	19.50	0.12	29.50	0.05	39.50	0.03
9.75	0.50	19.75	0.12	29.75	0.05	39.75	0.03
10.00	0.47	20.00	0.12	30.00	0.05	40.00	0.03

Notes:

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

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi \cdot R^2)$$
 - 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 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 40%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.27

3.22 Inches

BioInitiative ft. 21.70

260.40 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.03	54.25	0.02	68.25	0.01	82.25	0.01
40.50	0.03	54.50	0.02	68.50	0.01	82.50	0.01
40.75	0.03	54.75	0.02	68.75	0.01	82.75	0.01
41.00	0.03	55.00	0.02	69.00	0.01	83.00	0.01
41.25	0.03	55.25	0.02	69.25	0.01	83.25	0.01
41.50	0.03	55.50	0.02	69.50	0.01	83.50	0.01
41.75	0.03	55.75	0.02	69.75	0.01	83.75	0.01
42.00	0.03	56.00	0.02	70.00	0.01	84.00	0.01
42.25	0.03	56.25	0.01	70.25	0.01	84.25	0.01
42.50	0.03	56.50	0.01	70.50	0.01	84.50	0.01
42.75	0.03	56.75	0.01	70.75	0.01	84.75	0.01
43.00	0.03	57.00	0.01	71.00	0.01	85.00	0.01
43.25	0.03	57.25	0.01	71.25	0.01	85.25	0.01
43.50	0.02	57.50	0.01	71.50	0.01	85.50	0.01
43.75	0.02	57.75	0.01	71.75	0.01	85.75	0.01
44.00	0.02	58.00	0.01	72.00	0.01	86.00	0.01
44.25	0.02	58.25	0.01	72.25	0.01	86.25	0.01
44.50	0.02	58.50	0.01	72.50	0.01	86.50	0.01
44.75	0.02	58.75	0.01	72.75	0.01	86.75	0.01
45.00	0.02	59.00	0.01	73.00	0.01	87.00	0.01
45.25	0.02	59.25	0.01	73.25	0.01	87.25	0.01
45.50	0.02	59.50	0.01	73.50	0.01	87.50	0.01
45.75	0.02	59.75	0.01	73.75	0.01	87.75	0.01
46.00	0.02	60.00	0.01	74.00	0.01	88.00	0.01
46.25	0.02	60.25	0.01	74.25	0.01	88.25	0.01
46.50	0.02	60.50	0.01	74.50	0.01	88.50	0.01
46.75	0.02	60.75	0.01	74.75	0.01	88.75	0.01
47.00	0.02	61.00	0.01	75.00	0.01	89.00	0.01
47.25	0.02	61.25	0.01	75.25	0.01	89.25	0.01
47.50	0.02	61.50	0.01	75.50	0.01	89.50	0.01
47.75	0.02	61.75	0.01	75.75	0.01	89.75	0.01
48.00	0.02	62.00	0.01	76.00	0.01	90.00	0.01
48.25	0.02	62.25	0.01	76.25	0.01	90.25	0.01
48.50	0.02	62.50	0.01	76.50	0.01	90.50	0.01
48.75	0.02	62.75	0.01	76.75	0.01	90.75	0.01
49.00	0.02	63.00	0.01	77.00	0.01	91.00	0.01
49.25	0.02	63.25	0.01	77.25	0.01	91.25	0.01
49.50	0.02	63.50	0.01	77.50	0.01	91.50	0.01
49.75	0.02	63.75	0.01	77.75	0.01	91.75	0.01
50.00	0.02	64.00	0.01	78.00	0.01	92.00	0.01
50.25	0.02	64.25	0.01	78.25	0.01	92.25	0.01
50.50	0.02	64.50	0.01	78.50	0.01	92.50	0.01
50.75	0.02	64.75	0.01	78.75	0.01	92.75	0.01
51.00	0.02	65.00	0.01	79.00	0.01	93.00	0.01
51.25	0.02	65.25	0.01	79.25	0.01	93.25	0.01
51.50	0.02	65.50	0.01	79.50	0.01	93.50	0.01
51.75	0.02	65.75	0.01	79.75	0.01	93.75	0.01
52.00	0.02	66.00	0.01	80.00	0.01	94.00	0.01
52.25	0.02	66.25	0.01	80.25	0.01	94.25	0.01
52.50	0.02	66.50	0.01	80.50	0.01	94.50	0.01
52.75	0.02	66.75	0.01	80.75	0.01	94.75	0.01
53.00	0.02	67.00	0.01	81.00	0.01	95.00	0.01
53.25	0.02	67.25	0.01	81.25	0.01	95.25	0.01
53.50	0.02	67.50	0.01	81.50	0.01	95.50	0.01
53.75	0.02	67.75	0.01	81.75	0.01	95.75	0.01
54.00	0.02	68.00	0.01	82.00	0.01	96.00	0.01

Table 1 – 40%

SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 50%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.30 3.6 Inches

BioInitiative ft. 24.30 291.6 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	941.95	10.25	0.56	20.25	0.14	30.25	0.06
0.50	235.49	10.50	0.53	20.50	0.14	30.50	0.06
0.75	104.66	10.75	0.51	20.75	0.14	30.75	0.06
1.00	58.87	11.00	0.49	21.00	0.13	31.00	0.06
1.25	37.68	11.25	0.47	21.25	0.13	31.25	0.06
1.50	26.17	11.50	0.45	21.50	0.13	31.50	0.06
1.75	19.22	11.75	0.43	21.75	0.12	31.75	0.06
2.00	14.72	12.00	0.41	22.00	0.12	32.00	0.06
2.25	11.63	12.25	0.39	22.25	0.12	32.25	0.06
2.50	9.42	12.50	0.38	22.50	0.12	32.50	0.06
2.75	7.78	12.75	0.36	22.75	0.11	32.75	0.05
3.00	6.54	13.00	0.35	23.00	0.11	33.00	0.05
3.25	5.57	13.25	0.34	23.25	0.11	33.25	0.05
3.50	4.81	13.50	0.32	23.50	0.11	33.50	0.05
3.75	4.19	13.75	0.31	23.75	0.10	33.75	0.05
4.00	3.68	14.00	0.30	24.00	0.10	34.00	0.05
4.25	3.26	14.25	0.29	24.25	0.10	34.25	0.05
4.50	2.91	14.50	0.28	24.50	0.10	34.50	0.05
4.75	2.61	14.75	0.27	24.75	0.10	34.75	0.05
5.00	2.35	15.00	0.26	25.00	0.09	35.00	0.05
5.25	2.14	15.25	0.25	25.25	0.09	35.25	0.05
5.50	1.95	15.50	0.25	25.50	0.09	35.50	0.05
5.75	1.78	15.75	0.24	25.75	0.09	35.75	0.05
6.00	1.64	16.00	0.23	26.00	0.09	36.00	0.05
6.25	1.51	16.25	0.22	26.25	0.09	36.25	0.04
6.50	1.39	16.50	0.22	26.50	0.08	36.50	0.04
6.75	1.29	16.75	0.21	26.75	0.08	36.75	0.04
7.00	1.20	17.00	0.20	27.00	0.08	37.00	0.04
7.25	1.12	17.25	0.20	27.25	0.08	37.25	0.04
7.50	1.05	17.50	0.19	27.50	0.08	37.50	0.04
7.75	0.98	17.75	0.19	27.75	0.08	37.75	0.04
8.00	0.92	18.00	0.18	28.00	0.08	38.00	0.04
8.25	0.86	18.25	0.18	28.25	0.07	38.25	0.04
8.50	0.81	18.50	0.17	28.50	0.07	38.50	0.04
8.75	0.77	18.75	0.17	28.75	0.07	38.75	0.04
9.00	0.73	19.00	0.16	29.00	0.07	39.00	0.04
9.25	0.69	19.25	0.16	29.25	0.07	39.25	0.04
9.50	0.65	19.50	0.15	29.50	0.07	39.50	0.04
9.75	0.62	19.75	0.15	29.75	0.07	39.75	0.04
10.00	0.59	20.00	0.15	30.00	0.07	40.00	0.04

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
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- 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 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 50%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.30

3.60 Inches

BioInitiative ft. 24.30

291.60 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.04	54.25	0.02	68.25	0.01	82.25	0.01
40.50	0.04	54.50	0.02	68.50	0.01	82.50	0.01
40.75	0.04	54.75	0.02	68.75	0.01	82.75	0.01
41.00	0.04	55.00	0.02	69.00	0.01	83.00	0.01
41.25	0.03	55.25	0.02	69.25	0.01	83.25	0.01
41.50	0.03	55.50	0.02	69.50	0.01	83.50	0.01
41.75	0.03	55.75	0.02	69.75	0.01	83.75	0.01
42.00	0.03	56.00	0.02	70.00	0.01	84.00	0.01
42.25	0.03	56.25	0.02	70.25	0.01	84.25	0.01
42.50	0.03	56.50	0.02	70.50	0.01	84.50	0.01
42.75	0.03	56.75	0.02	70.75	0.01	84.75	0.01
43.00	0.03	57.00	0.02	71.00	0.01	85.00	0.01
43.25	0.03	57.25	0.02	71.25	0.01	85.25	0.01
43.50	0.03	57.50	0.02	71.50	0.01	85.50	0.01
43.75	0.03	57.75	0.02	71.75	0.01	85.75	0.01
44.00	0.03	58.00	0.02	72.00	0.01	86.00	0.01
44.25	0.03	58.25	0.02	72.25	0.01	86.25	0.01
44.50	0.03	58.50	0.02	72.50	0.01	86.50	0.01
44.75	0.03	58.75	0.02	72.75	0.01	86.75	0.01
45.00	0.03	59.00	0.02	73.00	0.01	87.00	0.01
45.25	0.03	59.25	0.02	73.25	0.01	87.25	0.01
45.50	0.03	59.50	0.02	73.50	0.01	87.50	0.01
45.75	0.03	59.75	0.02	73.75	0.01	87.75	0.01
46.00	0.03	60.00	0.02	74.00	0.01	88.00	0.01
46.25	0.03	60.25	0.02	74.25	0.01	88.25	0.01
46.50	0.03	60.50	0.02	74.50	0.01	88.50	0.01
46.75	0.03	60.75	0.02	74.75	0.01	88.75	0.01
47.00	0.03	61.00	0.02	75.00	0.01	89.00	0.01
47.25	0.03	61.25	0.02	75.25	0.01	89.25	0.01
47.50	0.03	61.50	0.02	75.50	0.01	89.50	0.01
47.75	0.03	61.75	0.02	75.75	0.01	89.75	0.01
48.00	0.03	62.00	0.02	76.00	0.01	90.00	0.01
48.25	0.03	62.25	0.02	76.25	0.01	90.25	0.01
48.50	0.03	62.50	0.02	76.50	0.01	90.50	0.01
48.75	0.02	62.75	0.01	76.75	0.01	90.75	0.01
49.00	0.02	63.00	0.01	77.00	0.01	91.00	0.01
49.25	0.02	63.25	0.01	77.25	0.01	91.25	0.01
49.50	0.02	63.50	0.01	77.50	0.01	91.50	0.01
49.75	0.02	63.75	0.01	77.75	0.01	91.75	0.01
50.00	0.02	64.00	0.01	78.00	0.01	92.00	0.01
50.25	0.02	64.25	0.01	78.25	0.01	92.25	0.01
50.50	0.02	64.50	0.01	78.50	0.01	92.50	0.01
50.75	0.02	64.75	0.01	78.75	0.01	92.75	0.01
51.00	0.02	65.00	0.01	79.00	0.01	93.00	0.01
51.25	0.02	65.25	0.01	79.25	0.01	93.25	0.01
51.50	0.02	65.50	0.01	79.50	0.01	93.50	0.01
51.75	0.02	65.75	0.01	79.75	0.01	93.75	0.01
52.00	0.02	66.00	0.01	80.00	0.01	94.00	0.01
52.25	0.02	66.25	0.01	80.25	0.01	94.25	0.01
52.50	0.02	66.50	0.01	80.50	0.01	94.50	0.01
52.75	0.02	66.75	0.01	80.75	0.01	94.75	0.01
53.00	0.02	67.00	0.01	81.00	0.01	95.00	0.01
53.25	0.02	67.25	0.01	81.25	0.01	95.25	0.01
53.50	0.02	67.50	0.01	81.50	0.01	95.50	0.01
53.75	0.02	67.75	0.01	81.75	0.01	95.75	0.01
54.00	0.02	68.00	0.01	82.00	0.01	96.00	0.01

Table 1 – 50%

SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 60%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.33 3.9 Inches

BioInitiative ft. 26.60 319.2 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1130.34	10.25	0.67	20.25	0.17	30.25	0.08
0.50	282.59	10.50	0.64	20.50	0.17	30.50	0.08
0.75	125.59	10.75	0.61	20.75	0.16	30.75	0.07
1.00	70.65	11.00	0.58	21.00	0.16	31.00	0.07
1.25	45.21	11.25	0.56	21.25	0.16	31.25	0.07
1.50	31.40	11.50	0.53	21.50	0.15	31.50	0.07
1.75	23.07	11.75	0.51	21.75	0.15	31.75	0.07
2.00	17.66	12.00	0.49	22.00	0.15	32.00	0.07
2.25	13.95	12.25	0.47	22.25	0.14	32.25	0.07
2.50	11.30	12.50	0.45	22.50	0.14	32.50	0.07
2.75	9.34	12.75	0.43	22.75	0.14	32.75	0.07
3.00	7.85	13.00	0.42	23.00	0.13	33.00	0.06
3.25	6.69	13.25	0.40	23.25	0.13	33.25	0.06
3.50	5.77	13.50	0.39	23.50	0.13	33.50	0.06
3.75	5.02	13.75	0.37	23.75	0.13	33.75	0.06
4.00	4.42	14.00	0.36	24.00	0.12	34.00	0.06
4.25	3.91	14.25	0.35	24.25	0.12	34.25	0.06
4.50	3.49	14.50	0.34	24.50	0.12	34.50	0.06
4.75	3.13	14.75	0.32	24.75	0.12	34.75	0.06
5.00	2.83	15.00	0.31	25.00	0.11	35.00	0.06
5.25	2.56	15.25	0.30	25.25	0.11	35.25	0.06
5.50	2.34	15.50	0.29	25.50	0.11	35.50	0.06
5.75	2.14	15.75	0.28	25.75	0.11	35.75	0.06
6.00	1.96	16.00	0.28	26.00	0.10	36.00	0.05
6.25	1.81	16.25	0.27	26.25	0.10	36.25	0.05
6.50	1.67	16.50	0.26	26.50	0.10	36.50	0.05
6.75	1.55	16.75	0.25	26.75	0.10	36.75	0.05
7.00	1.44	17.00	0.24	27.00	0.10	37.00	0.05
7.25	1.34	17.25	0.24	27.25	0.10	37.25	0.05
7.50	1.26	17.50	0.23	27.50	0.09	37.50	0.05
7.75	1.18	17.75	0.22	27.75	0.09	37.75	0.05
8.00	1.10	18.00	0.22	28.00	0.09	38.00	0.05
8.25	1.04	18.25	0.21	28.25	0.09	38.25	0.05
8.50	0.98	18.50	0.21	28.50	0.09	38.50	0.05
8.75	0.92	18.75	0.20	28.75	0.09	38.75	0.05
9.00	0.87	19.00	0.20	29.00	0.08	39.00	0.05
9.25	0.83	19.25	0.19	29.25	0.08	39.25	0.05
9.50	0.78	19.50	0.19	29.50	0.08	39.50	0.05
9.75	0.74	19.75	0.18	29.75	0.08	39.75	0.04
10.00	0.71	20.00	0.18	30.00	0.08	40.00	0.04

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
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 - %Ref = Percent reflections
- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
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- 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 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 60%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.33

3.94 Inches

BioInitiative ft. 26.60

319.20 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.04	54.25	0.02	68.25	0.02	82.25	0.01
40.50	0.04	54.50	0.02	68.50	0.02	82.50	0.01
40.75	0.04	54.75	0.02	68.75	0.01	82.75	0.01
41.00	0.04	55.00	0.02	69.00	0.01	83.00	0.01
41.25	0.04	55.25	0.02	69.25	0.01	83.25	0.01
41.50	0.04	55.50	0.02	69.50	0.01	83.50	0.01
41.75	0.04	55.75	0.02	69.75	0.01	83.75	0.01
42.00	0.04	56.00	0.02	70.00	0.01	84.00	0.01
42.25	0.04	56.25	0.02	70.25	0.01	84.25	0.01
42.50	0.04	56.50	0.02	70.50	0.01	84.50	0.01
42.75	0.04	56.75	0.02	70.75	0.01	84.75	0.01
43.00	0.04	57.00	0.02	71.00	0.01	85.00	0.01
43.25	0.04	57.25	0.02	71.25	0.01	85.25	0.01
43.50	0.04	57.50	0.02	71.50	0.01	85.50	0.01
43.75	0.04	57.75	0.02	71.75	0.01	85.75	0.01
44.00	0.04	58.00	0.02	72.00	0.01	86.00	0.01
44.25	0.04	58.25	0.02	72.25	0.01	86.25	0.01
44.50	0.04	58.50	0.02	72.50	0.01	86.50	0.01
44.75	0.04	58.75	0.02	72.75	0.01	86.75	0.01
45.00	0.03	59.00	0.02	73.00	0.01	87.00	0.01
45.25	0.03	59.25	0.02	73.25	0.01	87.25	0.01
45.50	0.03	59.50	0.02	73.50	0.01	87.50	0.01
45.75	0.03	59.75	0.02	73.75	0.01	87.75	0.01
46.00	0.03	60.00	0.02	74.00	0.01	88.00	0.01
46.25	0.03	60.25	0.02	74.25	0.01	88.25	0.01
46.50	0.03	60.50	0.02	74.50	0.01	88.50	0.01
46.75	0.03	60.75	0.02	74.75	0.01	88.75	0.01
47.00	0.03	61.00	0.02	75.00	0.01	89.00	0.01
47.25	0.03	61.25	0.02	75.25	0.01	89.25	0.01
47.50	0.03	61.50	0.02	75.50	0.01	89.50	0.01
47.75	0.03	61.75	0.02	75.75	0.01	89.75	0.01
48.00	0.03	62.00	0.02	76.00	0.01	90.00	0.01
48.25	0.03	62.25	0.02	76.25	0.01	90.25	0.01
48.50	0.03	62.50	0.02	76.50	0.01	90.50	0.01
48.75	0.03	62.75	0.02	76.75	0.01	90.75	0.01
49.00	0.03	63.00	0.02	77.00	0.01	91.00	0.01
49.25	0.03	63.25	0.02	77.25	0.01	91.25	0.01
49.50	0.03	63.50	0.02	77.50	0.01	91.50	0.01
49.75	0.03	63.75	0.02	77.75	0.01	91.75	0.01
50.00	0.03	64.00	0.02	78.00	0.01	92.00	0.01
50.25	0.03	64.25	0.02	78.25	0.01	92.25	0.01
50.50	0.03	64.50	0.02	78.50	0.01	92.50	0.01
50.75	0.03	64.75	0.02	78.75	0.01	92.75	0.01
51.00	0.03	65.00	0.02	79.00	0.01	93.00	0.01
51.25	0.03	65.25	0.02	79.25	0.01	93.25	0.01
51.50	0.03	65.50	0.02	79.50	0.01	93.50	0.01
51.75	0.03	65.75	0.02	79.75	0.01	93.75	0.01
52.00	0.03	66.00	0.02	80.00	0.01	94.00	0.01
52.25	0.03	66.25	0.02	80.25	0.01	94.25	0.01
52.50	0.03	66.50	0.02	80.50	0.01	94.50	0.01
52.75	0.03	66.75	0.02	80.75	0.01	94.75	0.01
53.00	0.03	67.00	0.02	81.00	0.01	95.00	0.01
53.25	0.02	67.25	0.02	81.25	0.01	95.25	0.01
53.50	0.02	67.50	0.02	81.50	0.01	95.50	0.01
53.75	0.02	67.75	0.02	81.75	0.01	95.75	0.01
54.00	0.02	68.00	0.02	82.00	0.01	96.00	0.01

Table 1 – 60%

SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 70%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.35 4.3 Inches

BioInitiative ft. 28.70 344.4 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1318.73	10.25	0.78	20.25	0.20	30.25	0.09
0.50	329.68	10.50	0.75	20.50	0.20	30.50	0.09
0.75	146.53	10.75	0.71	20.75	0.19	30.75	0.09
1.00	82.42	11.00	0.68	21.00	0.19	31.00	0.09
1.25	52.75	11.25	0.65	21.25	0.18	31.25	0.08
1.50	36.63	11.50	0.62	21.50	0.18	31.50	0.08
1.75	26.91	11.75	0.60	21.75	0.17	31.75	0.08
2.00	20.61	12.00	0.57	22.00	0.17	32.00	0.08
2.25	16.28	12.25	0.55	22.25	0.17	32.25	0.08
2.50	13.19	12.50	0.53	22.50	0.16	32.50	0.08
2.75	10.90	12.75	0.51	22.75	0.16	32.75	0.08
3.00	9.16	13.00	0.49	23.00	0.16	33.00	0.08
3.25	7.80	13.25	0.47	23.25	0.15	33.25	0.07
3.50	6.73	13.50	0.45	23.50	0.15	33.50	0.07
3.75	5.86	13.75	0.44	23.75	0.15	33.75	0.07
4.00	5.15	14.00	0.42	24.00	0.14	34.00	0.07
4.25	4.56	14.25	0.41	24.25	0.14	34.25	0.07
4.50	4.07	14.50	0.39	24.50	0.14	34.50	0.07
4.75	3.65	14.75	0.38	24.75	0.13	34.75	0.07
5.00	3.30	15.00	0.37	25.00	0.13	35.00	0.07
5.25	2.99	15.25	0.35	25.25	0.13	35.25	0.07
5.50	2.72	15.50	0.34	25.50	0.13	35.50	0.07
5.75	2.49	15.75	0.33	25.75	0.12	35.75	0.06
6.00	2.29	16.00	0.32	26.00	0.12	36.00	0.06
6.25	2.11	16.25	0.31	26.25	0.12	36.25	0.06
6.50	1.95	16.50	0.30	26.50	0.12	36.50	0.06
6.75	1.81	16.75	0.29	26.75	0.12	36.75	0.06
7.00	1.68	17.00	0.29	27.00	0.11	37.00	0.06
7.25	1.57	17.25	0.28	27.25	0.11	37.25	0.06
7.50	1.47	17.50	0.27	27.50	0.11	37.50	0.06
7.75	1.37	17.75	0.26	27.75	0.11	37.75	0.06
8.00	1.29	18.00	0.25	28.00	0.11	38.00	0.06
8.25	1.21	18.25	0.25	28.25	0.10	38.25	0.06
8.50	1.14	18.50	0.24	28.50	0.10	38.50	0.06
8.75	1.08	18.75	0.23	28.75	0.10	38.75	0.05
9.00	1.02	19.00	0.23	29.00	0.10	39.00	0.05
9.25	0.96	19.25	0.22	29.25	0.10	39.25	0.05
9.50	0.91	19.50	0.22	29.50	0.09	39.50	0.05
9.75	0.87	19.75	0.21	29.75	0.09	39.75	0.05
10.00	0.82	20.00	0.21	30.00	0.09	40.00	0.05

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 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 70%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.35

4.26 Inches

BioInitiative ft. 28.70

344.40 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.05	54.25	0.03	68.25	0.02	82.25	0.01
40.50	0.05	54.50	0.03	68.50	0.02	82.50	0.01
40.75	0.05	54.75	0.03	68.75	0.02	82.75	0.01
41.00	0.05	55.00	0.03	69.00	0.02	83.00	0.01
41.25	0.05	55.25	0.03	69.25	0.02	83.25	0.01
41.50	0.05	55.50	0.03	69.50	0.02	83.50	0.01
41.75	0.05	55.75	0.03	69.75	0.02	83.75	0.01
42.00	0.05	56.00	0.03	70.00	0.02	84.00	0.01
42.25	0.05	56.25	0.03	70.25	0.02	84.25	0.01
42.50	0.05	56.50	0.03	70.50	0.02	84.50	0.01
42.75	0.05	56.75	0.03	70.75	0.02	84.75	0.01
43.00	0.04	57.00	0.03	71.00	0.02	85.00	0.01
43.25	0.04	57.25	0.03	71.25	0.02	85.25	0.01
43.50	0.04	57.50	0.02	71.50	0.02	85.50	0.01
43.75	0.04	57.75	0.02	71.75	0.02	85.75	0.01
44.00	0.04	58.00	0.02	72.00	0.02	86.00	0.01
44.25	0.04	58.25	0.02	72.25	0.02	86.25	0.01
44.50	0.04	58.50	0.02	72.50	0.02	86.50	0.01
44.75	0.04	58.75	0.02	72.75	0.02	86.75	0.01
45.00	0.04	59.00	0.02	73.00	0.02	87.00	0.01
45.25	0.04	59.25	0.02	73.25	0.02	87.25	0.01
45.50	0.04	59.50	0.02	73.50	0.02	87.50	0.01
45.75	0.04	59.75	0.02	73.75	0.02	87.75	0.01
46.00	0.04	60.00	0.02	74.00	0.02	88.00	0.01
46.25	0.04	60.25	0.02	74.25	0.01	88.25	0.01
46.50	0.04	60.50	0.02	74.50	0.01	88.50	0.01
46.75	0.04	60.75	0.02	74.75	0.01	88.75	0.01
47.00	0.04	61.00	0.02	75.00	0.01	89.00	0.01
47.25	0.04	61.25	0.02	75.25	0.01	89.25	0.01
47.50	0.04	61.50	0.02	75.50	0.01	89.50	0.01
47.75	0.04	61.75	0.02	75.75	0.01	89.75	0.01
48.00	0.04	62.00	0.02	76.00	0.01	90.00	0.01
48.25	0.04	62.25	0.02	76.25	0.01	90.25	0.01
48.50	0.04	62.50	0.02	76.50	0.01	90.50	0.01
48.75	0.03	62.75	0.02	76.75	0.01	90.75	0.01
49.00	0.03	63.00	0.02	77.00	0.01	91.00	0.01
49.25	0.03	63.25	0.02	77.25	0.01	91.25	0.01
49.50	0.03	63.50	0.02	77.50	0.01	91.50	0.01
49.75	0.03	63.75	0.02	77.75	0.01	91.75	0.01
50.00	0.03	64.00	0.02	78.00	0.01	92.00	0.01
50.25	0.03	64.25	0.02	78.25	0.01	92.25	0.01
50.50	0.03	64.50	0.02	78.50	0.01	92.50	0.01
50.75	0.03	64.75	0.02	78.75	0.01	92.75	0.01
51.00	0.03	65.00	0.02	79.00	0.01	93.00	0.01
51.25	0.03	65.25	0.02	79.25	0.01	93.25	0.01
51.50	0.03	65.50	0.02	79.50	0.01	93.50	0.01
51.75	0.03	65.75	0.02	79.75	0.01	93.75	0.01
52.00	0.03	66.00	0.02	80.00	0.01	94.00	0.01
52.25	0.03	66.25	0.02	80.25	0.01	94.25	0.01
52.50	0.03	66.50	0.02	80.50	0.01	94.50	0.01
52.75	0.03	66.75	0.02	80.75	0.01	94.75	0.01
53.00	0.03	67.00	0.02	81.00	0.01	95.00	0.01
53.25	0.03	67.25	0.02	81.25	0.01	95.25	0.01
53.50	0.03	67.50	0.02	81.50	0.01	95.50	0.01
53.75	0.03	67.75	0.02	81.75	0.01	95.75	0.01
54.00	0.03	68.00	0.02	82.00	0.01	96.00	0.01

Table 1 – 70%

SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 80%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.38 4.6 Inches

BioInitiative ft. 30.70 368.4 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1507.12	10.25	0.90	20.25	0.23	30.25	0.10
0.50	376.78	10.50	0.85	20.50	0.22	30.50	0.10
0.75	167.46	10.75	0.82	20.75	0.22	30.75	0.10
1.00	94.20	11.00	0.78	21.00	0.21	31.00	0.10
1.25	60.28	11.25	0.74	21.25	0.21	31.25	0.10
1.50	41.86	11.50	0.71	21.50	0.20	31.50	0.09
1.75	30.76	11.75	0.68	21.75	0.20	31.75	0.09
2.00	23.55	12.00	0.65	22.00	0.19	32.00	0.09
2.25	18.61	12.25	0.63	22.25	0.19	32.25	0.09
2.50	15.07	12.50	0.60	22.50	0.19	32.50	0.09
2.75	12.46	12.75	0.58	22.75	0.18	32.75	0.09
3.00	10.47	13.00	0.56	23.00	0.18	33.00	0.09
3.25	8.92	13.25	0.54	23.25	0.17	33.25	0.09
3.50	7.69	13.50	0.52	23.50	0.17	33.50	0.08
3.75	6.70	13.75	0.50	23.75	0.17	33.75	0.08
4.00	5.89	14.00	0.48	24.00	0.16	34.00	0.08
4.25	5.21	14.25	0.46	24.25	0.16	34.25	0.08
4.50	4.65	14.50	0.45	24.50	0.16	34.50	0.08
4.75	4.17	14.75	0.43	24.75	0.15	34.75	0.08
5.00	3.77	15.00	0.42	25.00	0.15	35.00	0.08
5.25	3.42	15.25	0.41	25.25	0.15	35.25	0.08
5.50	3.11	15.50	0.39	25.50	0.14	35.50	0.07
5.75	2.85	15.75	0.38	25.75	0.14	35.75	0.07
6.00	2.62	16.00	0.37	26.00	0.14	36.00	0.07
6.25	2.41	16.25	0.36	26.25	0.14	36.25	0.07
6.50	2.23	16.50	0.35	26.50	0.13	36.50	0.07
6.75	2.07	16.75	0.34	26.75	0.13	36.75	0.07
7.00	1.92	17.00	0.33	27.00	0.13	37.00	0.07
7.25	1.79	17.25	0.32	27.25	0.13	37.25	0.07
7.50	1.67	17.50	0.31	27.50	0.12	37.50	0.07
7.75	1.57	17.75	0.30	27.75	0.12	37.75	0.07
8.00	1.47	18.00	0.29	28.00	0.12	38.00	0.07
8.25	1.38	18.25	0.28	28.25	0.12	38.25	0.06
8.50	1.30	18.50	0.28	28.50	0.12	38.50	0.06
8.75	1.23	18.75	0.27	28.75	0.11	38.75	0.06
9.00	1.16	19.00	0.26	29.00	0.11	39.00	0.06
9.25	1.10	19.25	0.25	29.25	0.11	39.25	0.06
9.50	1.04	19.50	0.25	29.50	0.11	39.50	0.06
9.75	0.99	19.75	0.24	29.75	0.11	39.75	0.06
10.00	0.94	20.00	0.24	30.00	0.10	40.00	0.06

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 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 80%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.38

4.55 Inches

BioInitiative ft. 30.70

368.40 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.06	54.25	0.03	68.25	0.02	82.25	0.01
40.50	0.06	54.50	0.03	68.50	0.02	82.50	0.01
40.75	0.06	54.75	0.03	68.75	0.02	82.75	0.01
41.00	0.06	55.00	0.03	69.00	0.02	83.00	0.01
41.25	0.06	55.25	0.03	69.25	0.02	83.25	0.01
41.50	0.05	55.50	0.03	69.50	0.02	83.50	0.01
41.75	0.05	55.75	0.03	69.75	0.02	83.75	0.01
42.00	0.05	56.00	0.03	70.00	0.02	84.00	0.01
42.25	0.05	56.25	0.03	70.25	0.02	84.25	0.01
42.50	0.05	56.50	0.03	70.50	0.02	84.50	0.01
42.75	0.05	56.75	0.03	70.75	0.02	84.75	0.01
43.00	0.05	57.00	0.03	71.00	0.02	85.00	0.01
43.25	0.05	57.25	0.03	71.25	0.02	85.25	0.01
43.50	0.05	57.50	0.03	71.50	0.02	85.50	0.01
43.75	0.05	57.75	0.03	71.75	0.02	85.75	0.01
44.00	0.05	58.00	0.03	72.00	0.02	86.00	0.01
44.25	0.05	58.25	0.03	72.25	0.02	86.25	0.01
44.50	0.05	58.50	0.03	72.50	0.02	86.50	0.01
44.75	0.05	58.75	0.03	72.75	0.02	86.75	0.01
45.00	0.05	59.00	0.03	73.00	0.02	87.00	0.01
45.25	0.05	59.25	0.03	73.25	0.02	87.25	0.01
45.50	0.05	59.50	0.03	73.50	0.02	87.50	0.01
45.75	0.05	59.75	0.03	73.75	0.02	87.75	0.01
46.00	0.04	60.00	0.03	74.00	0.02	88.00	0.01
46.25	0.04	60.25	0.03	74.25	0.02	88.25	0.01
46.50	0.04	60.50	0.03	74.50	0.02	88.50	0.01
46.75	0.04	60.75	0.03	74.75	0.02	88.75	0.01
47.00	0.04	61.00	0.03	75.00	0.02	89.00	0.01
47.25	0.04	61.25	0.03	75.25	0.02	89.25	0.01
47.50	0.04	61.50	0.02	75.50	0.02	89.50	0.01
47.75	0.04	61.75	0.02	75.75	0.02	89.75	0.01
48.00	0.04	62.00	0.02	76.00	0.02	90.00	0.01
48.25	0.04	62.25	0.02	76.25	0.02	90.25	0.01
48.50	0.04	62.50	0.02	76.50	0.02	90.50	0.01
48.75	0.04	62.75	0.02	76.75	0.02	90.75	0.01
49.00	0.04	63.00	0.02	77.00	0.02	91.00	0.01
49.25	0.04	63.25	0.02	77.25	0.02	91.25	0.01
49.50	0.04	63.50	0.02	77.50	0.02	91.50	0.01
49.75	0.04	63.75	0.02	77.75	0.02	91.75	0.01
50.00	0.04	64.00	0.02	78.00	0.02	92.00	0.01
50.25	0.04	64.25	0.02	78.25	0.02	92.25	0.01
50.50	0.04	64.50	0.02	78.50	0.02	92.50	0.01
50.75	0.04	64.75	0.02	78.75	0.02	92.75	0.01
51.00	0.04	65.00	0.02	79.00	0.02	93.00	0.01
51.25	0.04	65.25	0.02	79.25	0.01	93.25	0.01
51.50	0.04	65.50	0.02	79.50	0.01	93.50	0.01
51.75	0.04	65.75	0.02	79.75	0.01	93.75	0.01
52.00	0.03	66.00	0.02	80.00	0.01	94.00	0.01
52.25	0.03	66.25	0.02	80.25	0.01	94.25	0.01
52.50	0.03	66.50	0.02	80.50	0.01	94.50	0.01
52.75	0.03	66.75	0.02	80.75	0.01	94.75	0.01
53.00	0.03	67.00	0.02	81.00	0.01	95.00	0.01
53.25	0.03	67.25	0.02	81.25	0.01	95.25	0.01
53.50	0.03	67.50	0.02	81.50	0.01	95.50	0.01
53.75	0.03	67.75	0.02	81.75	0.01	95.75	0.01
54.00	0.03	68.00	0.02	82.00	0.01	96.00	0.01

Table 1 – 80%

SMART Meter Power Density Computer Modeling

(1 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 90%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.40 4.8 Inches

BioInitiative ft. 32.60 391.2 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1695.51	10.25	1.01	20.25	0.26	30.25	0.12
0.50	423.88	10.50	0.96	20.50	0.25	30.50	0.11
0.75	188.39	10.75	0.92	20.75	0.25	30.75	0.11
1.00	105.97	11.00	0.88	21.00	0.24	31.00	0.11
1.25	67.82	11.25	0.84	21.25	0.23	31.25	0.11
1.50	47.10	11.50	0.80	21.50	0.23	31.50	0.11
1.75	34.60	11.75	0.77	21.75	0.22	31.75	0.11
2.00	26.49	12.00	0.74	22.00	0.22	32.00	0.10
2.25	20.93	12.25	0.71	22.25	0.21	32.25	0.10
2.50	16.96	12.50	0.68	22.50	0.21	32.50	0.10
2.75	14.01	12.75	0.65	22.75	0.20	32.75	0.10
3.00	11.77	13.00	0.63	23.00	0.20	33.00	0.10
3.25	10.03	13.25	0.60	23.25	0.20	33.25	0.10
3.50	8.65	13.50	0.58	23.50	0.19	33.50	0.09
3.75	7.54	13.75	0.56	23.75	0.19	33.75	0.09
4.00	6.62	14.00	0.54	24.00	0.18	34.00	0.09
4.25	5.87	14.25	0.52	24.25	0.18	34.25	0.09
4.50	5.23	14.50	0.50	24.50	0.18	34.50	0.09
4.75	4.70	14.75	0.49	24.75	0.17	34.75	0.09
5.00	4.24	15.00	0.47	25.00	0.17	35.00	0.09
5.25	3.84	15.25	0.46	25.25	0.17	35.25	0.09
5.50	3.50	15.50	0.44	25.50	0.16	35.50	0.08
5.75	3.21	15.75	0.43	25.75	0.16	35.75	0.08
6.00	2.94	16.00	0.41	26.00	0.16	36.00	0.08
6.25	2.71	16.25	0.40	26.25	0.15	36.25	0.08
6.50	2.51	16.50	0.39	26.50	0.15	36.50	0.08
6.75	2.33	16.75	0.38	26.75	0.15	36.75	0.08
7.00	2.16	17.00	0.37	27.00	0.15	37.00	0.08
7.25	2.02	17.25	0.36	27.25	0.14	37.25	0.08
7.50	1.88	17.50	0.35	27.50	0.14	37.50	0.08
7.75	1.76	17.75	0.34	27.75	0.14	37.75	0.07
8.00	1.66	18.00	0.33	28.00	0.14	38.00	0.07
8.25	1.56	18.25	0.32	28.25	0.13	38.25	0.07
8.50	1.47	18.50	0.31	28.50	0.13	38.50	0.07
8.75	1.38	18.75	0.30	28.75	0.13	38.75	0.07
9.00	1.31	19.00	0.29	29.00	0.13	39.00	0.07
9.25	1.24	19.25	0.29	29.25	0.12	39.25	0.07
9.50	1.17	19.50	0.28	29.50	0.12	39.50	0.07
9.75	1.11	19.75	0.27	29.75	0.12	39.75	0.07
10.00	1.06	20.00	0.26	30.00	0.12	40.00	0.07

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 SMART Meter only – 60% reflections)

Meters 1 Electric Meter

Time Avg: 90%

% Reflection 60%

Distance where limits are exceeded

FCC ft. 0.40

4.83 Inches

BioInitiative ft. 32.60

391.20 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.07	54.25	0.04	68.25	0.02	82.25	0.02
40.50	0.06	54.50	0.04	68.50	0.02	82.50	0.02
40.75	0.06	54.75	0.04	68.75	0.02	82.75	0.02
41.00	0.06	55.00	0.04	69.00	0.02	83.00	0.02
41.25	0.06	55.25	0.03	69.25	0.02	83.25	0.02
41.50	0.06	55.50	0.03	69.50	0.02	83.50	0.02
41.75	0.06	55.75	0.03	69.75	0.02	83.75	0.02
42.00	0.06	56.00	0.03	70.00	0.02	84.00	0.02
42.25	0.06	56.25	0.03	70.25	0.02	84.25	0.01
42.50	0.06	56.50	0.03	70.50	0.02	84.50	0.01
42.75	0.06	56.75	0.03	70.75	0.02	84.75	0.01
43.00	0.06	57.00	0.03	71.00	0.02	85.00	0.01
43.25	0.06	57.25	0.03	71.25	0.02	85.25	0.01
43.50	0.06	57.50	0.03	71.50	0.02	85.50	0.01
43.75	0.06	57.75	0.03	71.75	0.02	85.75	0.01
44.00	0.05	58.00	0.03	72.00	0.02	86.00	0.01
44.25	0.05	58.25	0.03	72.25	0.02	86.25	0.01
44.50	0.05	58.50	0.03	72.50	0.02	86.50	0.01
44.75	0.05	58.75	0.03	72.75	0.02	86.75	0.01
45.00	0.05	59.00	0.03	73.00	0.02	87.00	0.01
45.25	0.05	59.25	0.03	73.25	0.02	87.25	0.01
45.50	0.05	59.50	0.03	73.50	0.02	87.50	0.01
45.75	0.05	59.75	0.03	73.75	0.02	87.75	0.01
46.00	0.05	60.00	0.03	74.00	0.02	88.00	0.01
46.25	0.05	60.25	0.03	74.25	0.02	88.25	0.01
46.50	0.05	60.50	0.03	74.50	0.02	88.50	0.01
46.75	0.05	60.75	0.03	74.75	0.02	88.75	0.01
47.00	0.05	61.00	0.03	75.00	0.02	89.00	0.01
47.25	0.05	61.25	0.03	75.25	0.02	89.25	0.01
47.50	0.05	61.50	0.03	75.50	0.02	89.50	0.01
47.75	0.05	61.75	0.03	75.75	0.02	89.75	0.01
48.00	0.05	62.00	0.03	76.00	0.02	90.00	0.01
48.25	0.05	62.25	0.03	76.25	0.02	90.25	0.01
48.50	0.05	62.50	0.03	76.50	0.02	90.50	0.01
48.75	0.04	62.75	0.03	76.75	0.02	90.75	0.01
49.00	0.04	63.00	0.03	77.00	0.02	91.00	0.01
49.25	0.04	63.25	0.03	77.25	0.02	91.25	0.01
49.50	0.04	63.50	0.03	77.50	0.02	91.50	0.01
49.75	0.04	63.75	0.03	77.75	0.02	91.75	0.01
50.00	0.04	64.00	0.03	78.00	0.02	92.00	0.01
50.25	0.04	64.25	0.03	78.25	0.02	92.25	0.01
50.50	0.04	64.50	0.03	78.50	0.02	92.50	0.01
50.75	0.04	64.75	0.03	78.75	0.02	92.75	0.01
51.00	0.04	65.00	0.03	79.00	0.02	93.00	0.01
51.25	0.04	65.25	0.02	79.25	0.02	93.25	0.01
51.50	0.04	65.50	0.02	79.50	0.02	93.50	0.01
51.75	0.04	65.75	0.02	79.75	0.02	93.75	0.01
52.00	0.04	66.00	0.02	80.00	0.02	94.00	0.01
52.25	0.04	66.25	0.02	80.25	0.02	94.25	0.01
52.50	0.04	66.50	0.02	80.50	0.02	94.50	0.01
52.75	0.04	66.75	0.02	80.75	0.02	94.75	0.01
53.00	0.04	67.00	0.02	81.00	0.02	95.00	0.01
53.25	0.04	67.25	0.02	81.25	0.02	95.25	0.01
53.50	0.04	67.50	0.02	81.50	0.02	95.50	0.01
53.75	0.04	67.75	0.02	81.75	0.02	95.75	0.01
54.00	0.04	68.00	0.02	82.00	0.02	96.00	0.01

Table 1 – 90%