

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 1%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 0.15 1.8 Inches

BioInitiative ft. 12.10 145.2 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	117.74	10.25	0.14	20.25	0.04	30.25	0.02
0.50	47.10	10.50	0.13	20.50	0.04	30.50	0.02
0.75	23.55	10.75	0.13	20.75	0.03	30.75	0.02
1.00	13.85	11.00	0.12	21.00	0.03	31.00	0.02
1.25	9.06	11.25	0.12	21.25	0.03	31.25	0.02
1.50	6.36	11.50	0.11	21.50	0.03	31.50	0.01
1.75	4.71	11.75	0.11	21.75	0.03	31.75	0.01
2.00	3.62	12.00	0.10	22.00	0.03	32.00	0.01
2.25	2.87	12.25	0.10	22.25	0.03	32.25	0.01
2.50	2.33	12.50	0.09	22.50	0.03	32.50	0.01
2.75	1.93	12.75	0.09	22.75	0.03	32.75	0.01
3.00	1.62	13.00	0.09	23.00	0.03	33.00	0.01
3.25	1.39	13.25	0.08	23.25	0.03	33.25	0.01
3.50	1.20	13.50	0.08	23.50	0.03	33.50	0.01
3.75	1.04	13.75	0.08	23.75	0.03	33.75	0.01
4.00	0.92	14.00	0.08	24.00	0.03	34.00	0.01
4.25	0.81	14.25	0.07	24.25	0.03	34.25	0.01
4.50	0.72	14.50	0.07	24.50	0.02	34.50	0.01
4.75	0.65	14.75	0.07	24.75	0.02	34.75	0.01
5.00	0.59	15.00	0.07	25.00	0.02	35.00	0.01
5.25	0.53	15.25	0.06	25.25	0.02	35.25	0.01
5.50	0.49	15.50	0.06	25.50	0.02	35.50	0.01
5.75	0.44	15.75	0.06	25.75	0.02	35.75	0.01
6.00	0.41	16.00	0.06	26.00	0.02	36.00	0.01
6.25	0.38	16.25	0.06	26.25	0.02	36.25	0.01
6.50	0.35	16.50	0.05	26.50	0.02	36.50	0.01
6.75	0.32	16.75	0.05	26.75	0.02	36.75	0.01
7.00	0.30	17.00	0.05	27.00	0.02	37.00	0.01
7.25	0.28	17.25	0.05	27.25	0.02	37.25	0.01
7.50	0.26	17.50	0.05	27.50	0.02	37.50	0.01
7.75	0.24	17.75	0.05	27.75	0.02	37.75	0.01
8.00	0.23	18.00	0.05	28.00	0.02	38.00	0.01
8.25	0.22	18.25	0.04	28.25	0.02	38.25	0.01
8.50	0.20	18.50	0.04	28.50	0.02	38.50	0.01
8.75	0.19	18.75	0.04	28.75	0.02	38.75	0.01
9.00	0.18	19.00	0.04	29.00	0.02	39.00	0.01
9.25	0.17	19.25	0.04	29.25	0.02	39.25	0.01
9.50	0.16	19.50	0.04	29.50	0.02	39.50	0.01
9.75	0.15	19.75	0.04	29.75	0.02	39.75	0.01
10.00	0.15	20.00	0.04	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

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

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(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 1%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 0.15

1.80 Inches

BioInitiative ft. 12.10

145.20 Inches

Distance (ft)	$\mu\text{W}/\text{cm}^2$	Distance (ft)	$\mu\text{W}/\text{cm}^2$	Distance (ft)	$\mu\text{W}/\text{cm}^2$	Distance (ft)	$\mu\text{W}/\text{cm}^2$
40.25	0.01	54.25	0.01	68.25	0.00	82.25	0.00
40.50	0.01	54.50	0.00	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	0.01	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 6 – 1%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 10%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 0.40 4.8 Inches

BioInitiative ft. 38.40 460.8 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	1177.44	10.25	1.40	20.25	0.36	30.25	0.16
0.50	470.98	10.50	1.33	20.50	0.35	30.50	0.16
0.75	235.49	10.75	1.27	20.75	0.34	30.75	0.16
1.00	138.52	11.00	1.22	21.00	0.33	31.00	0.15
1.25	90.57	11.25	1.16	21.25	0.33	31.25	0.15
1.50	63.65	11.50	1.11	21.50	0.32	31.50	0.15
1.75	47.10	11.75	1.07	21.75	0.31	31.75	0.15
2.00	36.23	12.00	1.02	22.00	0.30	32.00	0.14
2.25	28.72	12.25	0.98	22.25	0.30	32.25	0.14
2.50	23.32	12.50	0.94	22.50	0.29	32.50	0.14
2.75	19.30	12.75	0.91	22.75	0.28	32.75	0.14
3.00	16.24	13.00	0.87	23.00	0.28	33.00	0.14
3.25	13.85	13.25	0.84	23.25	0.27	33.25	0.13
3.50	11.95	13.50	0.81	23.50	0.27	33.50	0.13
3.75	10.42	13.75	0.78	23.75	0.26	33.75	0.13
4.00	9.16	14.00	0.75	24.00	0.26	34.00	0.13
4.25	8.12	14.25	0.72	24.25	0.25	34.25	0.13
4.50	7.25	14.50	0.70	24.50	0.25	34.50	0.12
4.75	6.51	14.75	0.68	24.75	0.24	34.75	0.12
5.00	5.87	15.00	0.65	25.00	0.24	35.00	0.12
5.25	5.33	15.25	0.63	25.25	0.23	35.25	0.12
5.50	4.86	15.50	0.61	25.50	0.23	35.50	0.12
5.75	4.44	15.75	0.59	25.75	0.22	35.75	0.12
6.00	4.08	16.00	0.57	26.00	0.22	36.00	0.11
6.25	3.76	16.25	0.56	26.25	0.21	36.25	0.11
6.50	3.48	16.50	0.54	26.50	0.21	36.50	0.11
6.75	3.23	16.75	0.52	26.75	0.21	36.75	0.11
7.00	3.00	17.00	0.51	27.00	0.20	37.00	0.11
7.25	2.80	17.25	0.49	27.25	0.20	37.25	0.11
7.50	2.61	17.50	0.48	27.50	0.19	37.50	0.10
7.75	2.45	17.75	0.47	27.75	0.19	37.75	0.10
8.00	2.30	18.00	0.45	28.00	0.19	38.00	0.10
8.25	2.16	18.25	0.44	28.25	0.18	38.25	0.10
8.50	2.04	18.50	0.43	28.50	0.18	38.50	0.10
8.75	1.92	18.75	0.42	28.75	0.18	38.75	0.10
9.00	1.82	19.00	0.41	29.00	0.17	39.00	0.10
9.25	1.72	19.25	0.40	29.25	0.17	39.25	0.10
9.50	1.63	19.50	0.39	29.50	0.17	39.50	0.09
9.75	1.55	19.75	0.38	29.75	0.17	39.75	0.09
10.00	1.47	20.00	0.37	30.00	0.16	40.00	0.09

Notes:

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

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi i) R^2$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
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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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(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 10%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 0.40

4.84 Inches

BioInitiative ft. 38.40

460.80 Inches

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

Table 6 – 10%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 20%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 0.62 7.5 Inches

BioInitiative ft. 54.20 650.4 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	2354.88	10.25	2.80	20.25	0.72	30.25	0.32
0.50	941.95	10.50	2.67	20.50	0.70	30.50	0.32
0.75	470.98	10.75	2.55	20.75	0.68	30.75	0.31
1.00	277.04	11.00	2.43	21.00	0.67	31.00	0.31
1.25	181.14	11.25	2.32	21.25	0.65	31.25	0.30
1.50	127.29	11.50	2.22	21.50	0.64	31.50	0.30
1.75	94.20	11.75	2.13	21.75	0.62	31.75	0.29
2.00	72.46	12.00	2.04	22.00	0.61	32.00	0.29
2.25	57.44	12.25	1.96	22.25	0.59	32.25	0.28
2.50	46.63	12.50	1.88	22.50	0.58	32.50	0.28
2.75	38.60	12.75	1.81	22.75	0.57	32.75	0.27
3.00	32.48	13.00	1.74	23.00	0.56	33.00	0.27
3.25	27.70	13.25	1.68	23.25	0.54	33.25	0.27
3.50	23.91	13.50	1.61	23.50	0.53	33.50	0.26
3.75	20.84	13.75	1.56	23.75	0.52	33.75	0.26
4.00	18.33	14.00	1.50	24.00	0.51	34.00	0.25
4.25	16.24	14.25	1.45	24.25	0.50	34.25	0.25
4.50	14.49	14.50	1.40	24.50	0.49	34.50	0.25
4.75	13.01	14.75	1.35	24.75	0.48	34.75	0.24
5.00	11.75	15.00	1.31	25.00	0.47	35.00	0.24
5.25	10.66	15.25	1.27	25.25	0.46	35.25	0.24
5.50	9.71	15.50	1.22	25.50	0.45	35.50	0.23
5.75	8.89	15.75	1.19	25.75	0.44	35.75	0.23
6.00	8.16	16.00	1.15	26.00	0.44	36.00	0.23
6.25	7.52	16.25	1.11	26.25	0.43	36.25	0.22
6.50	6.96	16.50	1.08	26.50	0.42	36.50	0.22
6.75	6.45	16.75	1.05	26.75	0.41	36.75	0.22
7.00	6.00	17.00	1.02	27.00	0.40	37.00	0.22
7.25	5.59	17.25	0.99	27.25	0.40	37.25	0.21
7.50	5.23	17.50	0.96	27.50	0.39	37.50	0.21
7.75	4.90	17.75	0.93	27.75	0.38	37.75	0.21
8.00	4.59	18.00	0.91	28.00	0.38	38.00	0.20
8.25	4.32	18.25	0.88	28.25	0.37	38.25	0.20
8.50	4.07	18.50	0.86	28.50	0.36	38.50	0.20
8.75	3.84	18.75	0.84	28.75	0.36	38.75	0.20
9.00	3.63	19.00	0.82	29.00	0.35	39.00	0.19
9.25	3.44	19.25	0.79	29.25	0.34	39.25	0.19
9.50	3.26	19.50	0.77	29.50	0.34	39.50	0.19
9.75	3.09	19.75	0.75	29.75	0.33	39.75	0.19
10.00	2.94	20.00	0.74	30.00	0.33	40.00	0.18

Notes:

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

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

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 20%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 0.62

7.47 Inches

BioInitiative ft. 54.20

650.40 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.18	54.25	0.10	68.25	0.06	82.25	0.04
40.50	0.18	54.50	0.10	68.50	0.06	82.50	0.04
40.75	0.18	54.75	0.10	68.75	0.06	82.75	0.04
41.00	0.18	55.00	0.10	69.00	0.06	83.00	0.04
41.25	0.17	55.25	0.10	69.25	0.06	83.25	0.04
41.50	0.17	55.50	0.10	69.50	0.06	83.50	0.04
41.75	0.17	55.75	0.09	69.75	0.06	83.75	0.04
42.00	0.17	56.00	0.09	70.00	0.06	84.00	0.04
42.25	0.16	56.25	0.09	70.25	0.06	84.25	0.04
42.50	0.16	56.50	0.09	70.50	0.06	84.50	0.04
42.75	0.16	56.75	0.09	70.75	0.06	84.75	0.04
43.00	0.16	57.00	0.09	71.00	0.06	85.00	0.04
43.25	0.16	57.25	0.09	71.25	0.06	85.25	0.04
43.50	0.16	57.50	0.09	71.50	0.06	85.50	0.04
43.75	0.15	57.75	0.09	71.75	0.06	85.75	0.04
44.00	0.15	58.00	0.09	72.00	0.06	86.00	0.04
44.25	0.15	58.25	0.09	72.25	0.06	86.25	0.04
44.50	0.15	58.50	0.09	72.50	0.06	86.50	0.04
44.75	0.15	58.75	0.09	72.75	0.06	86.75	0.04
45.00	0.15	59.00	0.08	73.00	0.06	87.00	0.04
45.25	0.14	59.25	0.08	73.25	0.05	87.25	0.04
45.50	0.14	59.50	0.08	73.50	0.05	87.50	0.04
45.75	0.14	59.75	0.08	73.75	0.05	87.75	0.04
46.00	0.14	60.00	0.08	74.00	0.05	88.00	0.04
46.25	0.14	60.25	0.08	74.25	0.05	88.25	0.04
46.50	0.14	60.50	0.08	74.50	0.05	88.50	0.04
46.75	0.13	60.75	0.08	74.75	0.05	88.75	0.04
47.00	0.13	61.00	0.08	75.00	0.05	89.00	0.04
47.25	0.13	61.25	0.08	75.25	0.05	89.25	0.04
47.50	0.13	61.50	0.08	75.50	0.05	89.50	0.04
47.75	0.13	61.75	0.08	75.75	0.05	89.75	0.04
48.00	0.13	62.00	0.08	76.00	0.05	90.00	0.04
48.25	0.13	62.25	0.08	76.25	0.05	90.25	0.04
48.50	0.13	62.50	0.08	76.50	0.05	90.50	0.04
48.75	0.12	62.75	0.07	76.75	0.05	90.75	0.04
49.00	0.12	63.00	0.07	77.00	0.05	91.00	0.04
49.25	0.12	63.25	0.07	77.25	0.05	91.25	0.04
49.50	0.12	63.50	0.07	77.50	0.05	91.50	0.04
49.75	0.12	63.75	0.07	77.75	0.05	91.75	0.03
50.00	0.12	64.00	0.07	78.00	0.05	92.00	0.03
50.25	0.12	64.25	0.07	78.25	0.05	92.25	0.03
50.50	0.12	64.50	0.07	78.50	0.05	92.50	0.03
50.75	0.11	64.75	0.07	78.75	0.05	92.75	0.03
51.00	0.11	65.00	0.07	79.00	0.05	93.00	0.03
51.25	0.11	65.25	0.07	79.25	0.05	93.25	0.03
51.50	0.11	65.50	0.07	79.50	0.05	93.50	0.03
51.75	0.11	65.75	0.07	79.75	0.05	93.75	0.03
52.00	0.11	66.00	0.07	80.00	0.05	94.00	0.03
52.25	0.11	66.25	0.07	80.25	0.05	94.25	0.03
52.50	0.11	66.50	0.07	80.50	0.05	94.50	0.03
52.75	0.11	66.75	0.07	80.75	0.05	94.75	0.03
53.00	0.10	67.00	0.07	81.00	0.04	95.00	0.03
53.25	0.10	67.25	0.07	81.25	0.04	95.25	0.03
53.50	0.10	67.50	0.06	81.50	0.04	95.50	0.03
53.75	0.10	67.75	0.06	81.75	0.04	95.75	0.03
54.00	0.10	68.00	0.06	82.00	0.04	96.00	0.03

Table 6 – 20%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 30%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 0.78 9.4 Inches

BioInitiative ft. 66.30 795.6 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	3532.32	10.25	4.20	20.25	1.08	30.25	0.48
0.50	1412.93	10.50	4.00	20.50	1.05	30.50	0.47
0.75	706.46	10.75	3.82	20.75	1.03	30.75	0.47
1.00	415.57	11.00	3.65	21.00	1.00	31.00	0.46
1.25	271.72	11.25	3.49	21.25	0.98	31.25	0.45
1.50	190.94	11.50	3.34	21.50	0.96	31.50	0.44
1.75	141.29	11.75	3.20	21.75	0.93	31.75	0.44
2.00	108.69	12.00	3.06	22.00	0.91	32.00	0.43
2.25	86.15	12.25	2.94	22.25	0.89	32.25	0.42
2.50	69.95	12.50	2.82	22.50	0.87	32.50	0.42
2.75	57.91	12.75	2.72	22.75	0.85	32.75	0.41
3.00	48.72	13.00	2.61	23.00	0.83	33.00	0.41
3.25	41.56	13.25	2.51	23.25	0.82	33.25	0.40
3.50	35.86	13.50	2.42	23.50	0.80	33.50	0.39
3.75	31.26	13.75	2.33	23.75	0.78	33.75	0.39
4.00	27.49	14.00	2.25	24.00	0.77	34.00	0.38
4.25	24.36	14.25	2.17	24.25	0.75	34.25	0.38
4.50	21.74	14.50	2.10	24.50	0.74	34.50	0.37
4.75	19.52	14.75	2.03	24.75	0.72	34.75	0.37
5.00	17.62	15.00	1.96	25.00	0.71	35.00	0.36
5.25	15.98	15.25	1.90	25.25	0.69	35.25	0.36
5.50	14.57	15.50	1.84	25.50	0.68	35.50	0.35
5.75	13.33	15.75	1.78	25.75	0.67	35.75	0.35
6.00	12.24	16.00	1.72	26.00	0.65	36.00	0.34
6.25	11.29	16.25	1.67	26.25	0.64	36.25	0.34
6.50	10.44	16.50	1.62	26.50	0.63	36.50	0.33
6.75	9.68	16.75	1.57	26.75	0.62	36.75	0.33
7.00	9.00	17.00	1.53	27.00	0.61	37.00	0.32
7.25	8.39	17.25	1.48	27.25	0.59	37.25	0.32
7.50	7.84	17.50	1.44	27.50	0.58	37.50	0.31
7.75	7.34	17.75	1.40	27.75	0.57	37.75	0.31
8.00	6.89	18.00	1.36	28.00	0.56	38.00	0.31
8.25	6.48	18.25	1.33	28.25	0.55	38.25	0.30
8.50	6.11	18.50	1.29	28.50	0.54	38.50	0.30
8.75	5.76	18.75	1.26	28.75	0.53	38.75	0.29
9.00	5.45	19.00	1.22	29.00	0.52	39.00	0.29
9.25	5.16	19.25	1.19	29.25	0.52	39.25	0.29
9.50	4.89	19.50	1.16	29.50	0.51	39.50	0.28
9.75	4.64	19.75	1.13	29.75	0.50	39.75	0.28
10.00	4.41	20.00	1.10	30.00	0.49	40.00	0.28

Notes:

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

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

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

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

$$\pi() = 3.1459$$

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

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

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

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 30%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 0.78

9.39 Inches

BioInitiative ft. 66.30

795.60 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.27	54.25	0.15	68.25	0.09	82.25	0.07
40.50	0.27	54.50	0.15	68.50	0.09	82.50	0.06
40.75	0.27	54.75	0.15	68.75	0.09	82.75	0.06
41.00	0.26	55.00	0.15	69.00	0.09	83.00	0.06
41.25	0.26	55.25	0.14	69.25	0.09	83.25	0.06
41.50	0.26	55.50	0.14	69.50	0.09	83.50	0.06
41.75	0.25	55.75	0.14	69.75	0.09	83.75	0.06
42.00	0.25	56.00	0.14	70.00	0.09	84.00	0.06
42.25	0.25	56.25	0.14	70.25	0.09	84.25	0.06
42.50	0.24	56.50	0.14	70.50	0.09	84.50	0.06
42.75	0.24	56.75	0.14	70.75	0.09	84.75	0.06
43.00	0.24	57.00	0.14	71.00	0.09	85.00	0.06
43.25	0.24	57.25	0.13	71.25	0.09	85.25	0.06
43.50	0.23	57.50	0.13	71.50	0.09	85.50	0.06
43.75	0.23	57.75	0.13	71.75	0.09	85.75	0.06
44.00	0.23	58.00	0.13	72.00	0.09	86.00	0.06
44.25	0.23	58.25	0.13	72.25	0.08	86.25	0.06
44.50	0.22	58.50	0.13	72.50	0.08	86.50	0.06
44.75	0.22	58.75	0.13	72.75	0.08	86.75	0.06
45.00	0.22	59.00	0.13	73.00	0.08	87.00	0.06
45.25	0.22	59.25	0.13	73.25	0.08	87.25	0.06
45.50	0.21	59.50	0.12	73.50	0.08	87.50	0.06
45.75	0.21	59.75	0.12	73.75	0.08	87.75	0.06
46.00	0.21	60.00	0.12	74.00	0.08	88.00	0.06
46.25	0.21	60.25	0.12	74.25	0.08	88.25	0.06
46.50	0.20	60.50	0.12	74.50	0.08	88.50	0.06
46.75	0.20	60.75	0.12	74.75	0.08	88.75	0.06
47.00	0.20	61.00	0.12	75.00	0.08	89.00	0.06
47.25	0.20	61.25	0.12	75.25	0.08	89.25	0.06
47.50	0.20	61.50	0.12	75.50	0.08	89.50	0.06
47.75	0.19	61.75	0.12	75.75	0.08	89.75	0.05
48.00	0.19	62.00	0.11	76.00	0.08	90.00	0.05
48.25	0.19	62.25	0.11	76.25	0.08	90.25	0.05
48.50	0.19	62.50	0.11	76.50	0.08	90.50	0.05
48.75	0.19	62.75	0.11	76.75	0.07	90.75	0.05
49.00	0.18	63.00	0.11	77.00	0.07	91.00	0.05
49.25	0.18	63.25	0.11	77.25	0.07	91.25	0.05
49.50	0.18	63.50	0.11	77.50	0.07	91.50	0.05
49.75	0.18	63.75	0.11	77.75	0.07	91.75	0.05
50.00	0.18	64.00	0.11	78.00	0.07	92.00	0.05
50.25	0.17	64.25	0.11	78.25	0.07	92.25	0.05
50.50	0.17	64.50	0.11	78.50	0.07	92.50	0.05
50.75	0.17	64.75	0.11	78.75	0.07	92.75	0.05
51.00	0.17	65.00	0.10	79.00	0.07	93.00	0.05
51.25	0.17	65.25	0.10	79.25	0.07	93.25	0.05
51.50	0.17	65.50	0.10	79.50	0.07	93.50	0.05
51.75	0.16	65.75	0.10	79.75	0.07	93.75	0.05
52.00	0.16	66.00	0.10	80.00	0.07	94.00	0.05
52.25	0.16	66.25	0.10	80.25	0.07	94.25	0.05
52.50	0.16	66.50	0.10	80.50	0.07	94.50	0.05
52.75	0.16	66.75	0.10	80.75	0.07	94.75	0.05
53.00	0.16	67.00	0.10	81.00	0.07	95.00	0.05
53.25	0.16	67.25	0.10	81.25	0.07	95.25	0.05
53.50	0.15	67.50	0.10	81.50	0.07	95.50	0.05
53.75	0.15	67.75	0.10	81.75	0.07	95.75	0.05
54.00	0.15	68.00	0.10	82.00	0.07	96.00	0.05

Table 6 – 30%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 40%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 0.91 11.0 Inches

BioInitiative ft. 76.80 921.6 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	4709.76	10.25	5.60	20.25	1.44	30.25	0.64
0.50	1883.90	10.50	5.34	20.50	1.40	30.50	0.63
0.75	941.95	10.75	5.09	20.75	1.37	30.75	0.62
1.00	554.09	11.00	4.86	21.00	1.33	31.00	0.61
1.25	362.29	11.25	4.65	21.25	1.30	31.25	0.60
1.50	254.58	11.50	4.45	21.50	1.27	31.50	0.59
1.75	188.39	11.75	4.26	21.75	1.24	31.75	0.58
2.00	144.92	12.00	4.09	22.00	1.22	32.00	0.57
2.25	114.87	12.25	3.92	22.25	1.19	32.25	0.57
2.50	93.26	12.50	3.77	22.50	1.16	32.50	0.56
2.75	77.21	12.75	3.62	22.75	1.14	32.75	0.55
3.00	64.96	13.00	3.48	23.00	1.11	33.00	0.54
3.25	55.41	13.25	3.35	23.25	1.09	33.25	0.53
3.50	47.81	13.50	3.23	23.50	1.07	33.50	0.52
3.75	41.68	13.75	3.11	23.75	1.04	33.75	0.52
4.00	36.65	14.00	3.00	24.00	1.02	34.00	0.51
4.25	32.48	14.25	2.90	24.25	1.00	34.25	0.50
4.50	28.98	14.50	2.80	24.50	0.98	34.50	0.49
4.75	26.02	14.75	2.71	24.75	0.96	34.75	0.49
5.00	23.49	15.00	2.62	25.00	0.94	35.00	0.48
5.25	21.31	15.25	2.53	25.25	0.92	35.25	0.47
5.50	19.42	15.50	2.45	25.50	0.91	35.50	0.47
5.75	17.77	15.75	2.37	25.75	0.89	35.75	0.46
6.00	16.32	16.00	2.30	26.00	0.87	36.00	0.45
6.25	15.05	16.25	2.23	26.25	0.85	36.25	0.45
6.50	13.91	16.50	2.16	26.50	0.84	36.50	0.44
6.75	12.90	16.75	2.10	26.75	0.82	36.75	0.44
7.00	12.00	17.00	2.04	27.00	0.81	37.00	0.43
7.25	11.19	17.25	1.98	27.25	0.79	37.25	0.42
7.50	10.45	17.50	1.92	27.50	0.78	37.50	0.42
7.75	9.79	17.75	1.87	27.75	0.76	37.75	0.41
8.00	9.19	18.00	1.82	28.00	0.75	38.00	0.41
8.25	8.64	18.25	1.77	28.25	0.74	38.25	0.40
8.50	8.14	18.50	1.72	28.50	0.72	38.50	0.40
8.75	7.68	18.75	1.67	28.75	0.71	38.75	0.39
9.00	7.26	19.00	1.63	29.00	0.70	39.00	0.39
9.25	6.88	19.25	1.59	29.25	0.69	39.25	0.38
9.50	6.52	19.50	1.55	29.50	0.68	39.50	0.38
9.75	6.19	19.75	1.51	29.75	0.67	39.75	0.37
10.00	5.88	20.00	1.47	30.00	0.65	40.00	0.37

Notes:

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

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

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 40%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 0.91

10.98 Inches

BioInitiative ft. 76.80

921.60 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.36	54.25	0.20	68.25	0.13	82.25	0.09
40.50	0.36	54.50	0.20	68.50	0.13	82.50	0.09
40.75	0.35	54.75	0.20	68.75	0.12	82.75	0.09
41.00	0.35	55.00	0.19	69.00	0.12	83.00	0.09
41.25	0.35	55.25	0.19	69.25	0.12	83.25	0.08
41.50	0.34	55.50	0.19	69.50	0.12	83.50	0.08
41.75	0.34	55.75	0.19	69.75	0.12	83.75	0.08
42.00	0.33	56.00	0.19	70.00	0.12	84.00	0.08
42.25	0.33	56.25	0.19	70.25	0.12	84.25	0.08
42.50	0.33	56.50	0.18	70.50	0.12	84.50	0.08
42.75	0.32	56.75	0.18	70.75	0.12	84.75	0.08
43.00	0.32	57.00	0.18	71.00	0.12	85.00	0.08
43.25	0.31	57.25	0.18	71.25	0.12	85.25	0.08
43.50	0.31	57.50	0.18	71.50	0.12	85.50	0.08
43.75	0.31	57.75	0.18	71.75	0.11	85.75	0.08
44.00	0.30	58.00	0.18	72.00	0.11	86.00	0.08
44.25	0.30	58.25	0.17	72.25	0.11	86.25	0.08
44.50	0.30	58.50	0.17	72.50	0.11	86.50	0.08
44.75	0.29	58.75	0.17	72.75	0.11	86.75	0.08
45.00	0.29	59.00	0.17	73.00	0.11	87.00	0.08
45.25	0.29	59.25	0.17	73.25	0.11	87.25	0.08
45.50	0.28	59.50	0.17	73.50	0.11	87.50	0.08
45.75	0.28	59.75	0.16	73.75	0.11	87.75	0.08
46.00	0.28	60.00	0.16	74.00	0.11	88.00	0.08
46.25	0.28	60.25	0.16	74.25	0.11	88.25	0.08
46.50	0.27	60.50	0.16	74.50	0.11	88.50	0.08
46.75	0.27	60.75	0.16	74.75	0.11	88.75	0.07
47.00	0.27	61.00	0.16	75.00	0.10	89.00	0.07
47.25	0.26	61.25	0.16	75.25	0.10	89.25	0.07
47.50	0.26	61.50	0.16	75.50	0.10	89.50	0.07
47.75	0.26	61.75	0.15	75.75	0.10	89.75	0.07
48.00	0.26	62.00	0.15	76.00	0.10	90.00	0.07
48.25	0.25	62.25	0.15	76.25	0.10	90.25	0.07
48.50	0.25	62.50	0.15	76.50	0.10	90.50	0.07
48.75	0.25	62.75	0.15	76.75	0.10	90.75	0.07
49.00	0.25	63.00	0.15	77.00	0.10	91.00	0.07
49.25	0.24	63.25	0.15	77.25	0.10	91.25	0.07
49.50	0.24	63.50	0.15	77.50	0.10	91.50	0.07
49.75	0.24	63.75	0.14	77.75	0.10	91.75	0.07
50.00	0.24	64.00	0.14	78.00	0.10	92.00	0.07
50.25	0.23	64.25	0.14	78.25	0.10	92.25	0.07
50.50	0.23	64.50	0.14	78.50	0.10	92.50	0.07
50.75	0.23	64.75	0.14	78.75	0.09	92.75	0.07
51.00	0.23	65.00	0.14	79.00	0.09	93.00	0.07
51.25	0.22	65.25	0.14	79.25	0.09	93.25	0.07
51.50	0.22	65.50	0.14	79.50	0.09	93.50	0.07
51.75	0.22	65.75	0.14	79.75	0.09	93.75	0.07
52.00	0.22	66.00	0.14	80.00	0.09	94.00	0.07
52.25	0.22	66.25	0.13	80.25	0.09	94.25	0.07
52.50	0.21	66.50	0.13	80.50	0.09	94.50	0.07
52.75	0.21	66.75	0.13	80.75	0.09	94.75	0.07
53.00	0.21	67.00	0.13	81.00	0.09	95.00	0.07
53.25	0.21	67.25	0.13	81.25	0.09	95.25	0.06
53.50	0.21	67.50	0.13	81.50	0.09	95.50	0.06
53.75	0.20	67.75	0.13	81.75	0.09	95.75	0.06
54.00	0.20	68.00	0.13	82.00	0.09	96.00	0.06

Table 6 – 40%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 50%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.03 12.4 Inches

BioInitiative ft. 85.80 1029.6 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	5887.20	10.25	7.00	20.25	1.79	30.25	0.80
0.50	2354.88	10.50	6.67	20.50	1.75	30.50	0.79
0.75	1177.44	10.75	6.36	20.75	1.71	30.75	0.78
1.00	692.61	11.00	6.08	21.00	1.67	31.00	0.77
1.25	452.86	11.25	5.81	21.25	1.63	31.25	0.75
1.50	318.23	11.50	5.56	21.50	1.59	31.50	0.74
1.75	235.49	11.75	5.33	21.75	1.56	31.75	0.73
2.00	181.14	12.00	5.11	22.00	1.52	32.00	0.72
2.25	143.59	12.25	4.90	22.25	1.49	32.25	0.71
2.50	116.58	12.50	4.71	22.50	1.45	32.50	0.70
2.75	96.51	12.75	4.53	22.75	1.42	32.75	0.69
3.00	81.20	13.00	4.35	23.00	1.39	33.00	0.68
3.25	69.26	13.25	4.19	23.25	1.36	33.25	0.67
3.50	59.77	13.50	4.04	23.50	1.33	33.50	0.66
3.75	52.10	13.75	3.89	23.75	1.30	33.75	0.65
4.00	45.81	14.00	3.75	24.00	1.28	34.00	0.64
4.25	40.60	14.25	3.62	24.25	1.25	34.25	0.63
4.50	36.23	14.50	3.50	24.50	1.23	34.50	0.62
4.75	32.53	14.75	3.38	24.75	1.20	34.75	0.61
5.00	29.36	15.00	3.27	25.00	1.18	35.00	0.60
5.25	26.64	15.25	3.16	25.25	1.15	35.25	0.59
5.50	24.28	15.50	3.06	25.50	1.13	35.50	0.58
5.75	22.22	15.75	2.97	25.75	1.11	35.75	0.58
6.00	20.41	16.00	2.87	26.00	1.09	36.00	0.57
6.25	18.81	16.25	2.79	26.25	1.07	36.25	0.56
6.50	17.39	16.50	2.70	26.50	1.05	36.50	0.55
6.75	16.13	16.75	2.62	26.75	1.03	36.75	0.54
7.00	15.00	17.00	2.55	27.00	1.01	37.00	0.54
7.25	13.98	17.25	2.47	27.25	0.99	37.25	0.53
7.50	13.07	17.50	2.40	27.50	0.97	37.50	0.52
7.75	12.24	17.75	2.34	27.75	0.96	37.75	0.52
8.00	11.49	18.00	2.27	28.00	0.94	38.00	0.51
8.25	10.80	18.25	2.21	28.25	0.92	38.25	0.50
8.50	10.18	18.50	2.15	28.50	0.91	38.50	0.50
8.75	9.60	18.75	2.09	28.75	0.89	38.75	0.49
9.00	9.08	19.00	2.04	29.00	0.87	39.00	0.48
9.25	8.59	19.25	1.99	29.25	0.86	39.25	0.48
9.50	8.15	19.50	1.93	29.50	0.85	39.50	0.47
9.75	7.74	19.75	1.89	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

$$S = \text{EIRP} \cdot [\text{TA} \cdot (1 + \% \text{Ref})^2] / (4\pi)(R^2)$$
 - S = Power Density uW/cm²
 - EIRP = 1.64 * ERP
 - pi() = 3.1459
 - R = Distance to device
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- 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

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 50%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.03

12.37 Inches

BioInitiative ft. 85.80

1029.60 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.45	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	0.22	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	0.10
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	0.09
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	0.17	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

Table 6 – 50%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 60%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.13 13.6 Inches

BioInitiative ft. 94.00 1128.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	7064.64	10.25	8.40	20.25	2.15	30.25	0.96
0.50	2825.86	10.50	8.01	20.50	2.10	30.50	0.95
0.75	1412.93	10.75	7.64	20.75	2.05	30.75	0.93
1.00	831.13	11.00	7.29	21.00	2.00	31.00	0.92
1.25	543.43	11.25	6.97	21.25	1.96	31.25	0.90
1.50	381.87	11.50	6.67	21.50	1.91	31.50	0.89
1.75	282.59	11.75	6.39	21.75	1.87	31.75	0.88
2.00	217.37	12.00	6.13	22.00	1.82	32.00	0.86
2.25	172.31	12.25	5.88	22.25	1.78	32.25	0.85
2.50	139.89	12.50	5.65	22.50	1.74	32.50	0.84
2.75	115.81	12.75	5.43	22.75	1.71	32.75	0.82
3.00	97.44	13.00	5.22	23.00	1.67	33.00	0.81
3.25	83.11	13.25	5.03	23.25	1.63	33.25	0.80
3.50	71.72	13.50	4.84	23.50	1.60	33.50	0.79
3.75	62.52	13.75	4.67	23.75	1.57	33.75	0.78
4.00	54.98	14.00	4.50	24.00	1.53	34.00	0.76
4.25	48.72	14.25	4.35	24.25	1.50	34.25	0.75
4.50	43.47	14.50	4.20	24.50	1.47	34.50	0.74
4.75	39.03	14.75	4.06	24.75	1.44	34.75	0.73
5.00	35.24	15.00	3.92	25.00	1.41	35.00	0.72
5.25	31.97	15.25	3.80	25.25	1.38	35.25	0.71
5.50	29.13	15.50	3.67	25.50	1.36	35.50	0.70
5.75	26.66	15.75	3.56	25.75	1.33	35.75	0.69
6.00	24.49	16.00	3.45	26.00	1.31	36.00	0.68
6.25	22.57	16.25	3.34	26.25	1.28	36.25	0.67
6.50	20.87	16.50	3.24	26.50	1.26	36.50	0.66
6.75	19.36	16.75	3.15	26.75	1.23	36.75	0.65
7.00	18.00	17.00	3.05	27.00	1.21	37.00	0.65
7.25	16.78	17.25	2.97	27.25	1.19	37.25	0.64
7.50	15.68	17.50	2.88	27.50	1.17	37.50	0.63
7.75	14.69	17.75	2.80	27.75	1.15	37.75	0.62
8.00	13.78	18.00	2.73	28.00	1.13	38.00	0.61
8.25	12.96	18.25	2.65	28.25	1.11	38.25	0.60
8.50	12.21	18.50	2.58	28.50	1.09	38.50	0.60
8.75	11.52	18.75	2.51	28.75	1.07	38.75	0.59
9.00	10.89	19.00	2.45	29.00	1.05	39.00	0.58
9.25	10.31	19.25	2.38	29.25	1.03	39.25	0.57
9.50	9.78	19.50	2.32	29.50	1.01	39.50	0.57
9.75	9.28	19.75	2.26	29.75	1.00	39.75	0.56
10.00	8.83	20.00	2.21	30.00	0.98	40.00	0.55

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
 - TA = Time average
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- 60 percent reflections is equivalent to OET Bulletin 65 equation (10)
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SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 60%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.13

13.61 Inches

BioInitiative ft. 94.00

1128.00 Inches

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

Table 6 – 60%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 70%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.23 14.8 Inches

BioInitiative ft. 101.50 1218.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	8242.08	10.25	9.80	20.25	2.51	30.25	1.13
0.50	3296.83	10.50	9.34	20.50	2.45	30.50	1.11
0.75	1648.42	10.75	8.91	20.75	2.39	30.75	1.09
1.00	969.66	11.00	8.51	21.00	2.34	31.00	1.07
1.25	634.01	11.25	8.14	21.25	2.28	31.25	1.05
1.50	445.52	11.50	7.79	21.50	2.23	31.50	1.04
1.75	329.68	11.75	7.46	21.75	2.18	31.75	1.02
2.00	253.60	12.00	7.15	22.00	2.13	32.00	1.01
2.25	201.03	12.25	6.86	22.25	2.08	32.25	0.99
2.50	163.21	12.50	6.59	22.50	2.03	32.50	0.98
2.75	135.12	12.75	6.34	22.75	1.99	32.75	0.96
3.00	113.68	13.00	6.09	23.00	1.95	33.00	0.95
3.25	96.97	13.25	5.87	23.25	1.91	33.25	0.93
3.50	83.68	13.50	5.65	23.50	1.87	33.50	0.92
3.75	72.94	13.75	5.45	23.75	1.83	33.75	0.90
4.00	64.14	14.00	5.25	24.00	1.79	34.00	0.89
4.25	56.84	14.25	5.07	24.25	1.75	34.25	0.88
4.50	50.72	14.50	4.90	24.50	1.72	34.50	0.87
4.75	45.54	14.75	4.73	24.75	1.68	34.75	0.85
5.00	41.11	15.00	4.58	25.00	1.65	35.00	0.84
5.25	37.29	15.25	4.43	25.25	1.62	35.25	0.83
5.50	33.99	15.50	4.29	25.50	1.58	35.50	0.82
5.75	31.10	15.75	4.15	25.75	1.55	35.75	0.81
6.00	28.57	16.00	4.02	26.00	1.52	36.00	0.79
6.25	26.33	16.25	3.90	26.25	1.50	36.25	0.78
6.50	24.35	16.50	3.78	26.50	1.47	36.50	0.77
6.75	22.58	16.75	3.67	26.75	1.44	36.75	0.76
7.00	21.00	17.00	3.56	27.00	1.41	37.00	0.75
7.25	19.58	17.25	3.46	27.25	1.39	37.25	0.74
7.50	18.30	17.50	3.36	27.50	1.36	37.50	0.73
7.75	17.14	17.75	3.27	27.75	1.34	37.75	0.72
8.00	16.08	18.00	3.18	28.00	1.31	38.00	0.71
8.25	15.12	18.25	3.09	28.25	1.29	38.25	0.70
8.50	14.25	18.50	3.01	28.50	1.27	38.50	0.70
8.75	13.45	18.75	2.93	28.75	1.25	38.75	0.69
9.00	12.71	19.00	2.85	29.00	1.22	39.00	0.68
9.25	12.03	19.25	2.78	29.25	1.20	39.25	0.67
9.50	11.41	19.50	2.71	29.50	1.18	39.50	0.66
9.75	10.83	19.75	2.64	29.75	1.16	39.75	0.65
10.00	10.30	20.00	2.58	30.00	1.14	40.00	0.64

Notes:

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

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

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 70%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.23

14.75 Inches

BioInitiative ft. 101.50

1218.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.64	54.25	0.35	68.25	0.22	82.25	0.15
40.50	0.63	54.50	0.35	68.50	0.22	82.50	0.15
40.75	0.62	54.75	0.34	68.75	0.22	82.75	0.15
41.00	0.61	55.00	0.34	69.00	0.22	83.00	0.15
41.25	0.61	55.25	0.34	69.25	0.21	83.25	0.15
41.50	0.60	55.50	0.33	69.50	0.21	83.50	0.15
41.75	0.59	55.75	0.33	69.75	0.21	83.75	0.15
42.00	0.58	56.00	0.33	70.00	0.21	84.00	0.15
42.25	0.58	56.25	0.33	70.25	0.21	84.25	0.15
42.50	0.57	56.50	0.32	70.50	0.21	84.50	0.14
42.75	0.56	56.75	0.32	70.75	0.21	84.75	0.14
43.00	0.56	57.00	0.32	71.00	0.20	85.00	0.14
43.25	0.55	57.25	0.31	71.25	0.20	85.25	0.14
43.50	0.54	57.50	0.31	71.50	0.20	85.50	0.14
43.75	0.54	57.75	0.31	71.75	0.20	85.75	0.14
44.00	0.53	58.00	0.31	72.00	0.20	86.00	0.14
44.25	0.53	58.25	0.30	72.25	0.20	86.25	0.14
44.50	0.52	58.50	0.30	72.50	0.20	86.50	0.14
44.75	0.51	58.75	0.30	72.75	0.19	86.75	0.14
45.00	0.51	59.00	0.30	73.00	0.19	87.00	0.14
45.25	0.50	59.25	0.29	73.25	0.19	87.25	0.14
45.50	0.50	59.50	0.29	73.50	0.19	87.50	0.13
45.75	0.49	59.75	0.29	73.75	0.19	87.75	0.13
46.00	0.49	60.00	0.29	74.00	0.19	88.00	0.13
46.25	0.48	60.25	0.28	74.25	0.19	88.25	0.13
46.50	0.48	60.50	0.28	74.50	0.19	88.50	0.13
46.75	0.47	60.75	0.28	74.75	0.18	88.75	0.13
47.00	0.47	61.00	0.28	75.00	0.18	89.00	0.13
47.25	0.46	61.25	0.27	75.25	0.18	89.25	0.13
47.50	0.46	61.50	0.27	75.50	0.18	89.50	0.13
47.75	0.45	61.75	0.27	75.75	0.18	89.75	0.13
48.00	0.45	62.00	0.27	76.00	0.18	90.00	0.13
48.25	0.44	62.25	0.27	76.25	0.18	90.25	0.13
48.50	0.44	62.50	0.26	76.50	0.18	90.50	0.13
48.75	0.43	62.75	0.26	76.75	0.17	90.75	0.13
49.00	0.43	63.00	0.26	77.00	0.17	91.00	0.12
49.25	0.42	63.25	0.26	77.25	0.17	91.25	0.12
49.50	0.42	63.50	0.26	77.50	0.17	91.50	0.12
49.75	0.42	63.75	0.25	77.75	0.17	91.75	0.12
50.00	0.41	64.00	0.25	78.00	0.17	92.00	0.12
50.25	0.41	64.25	0.25	78.25	0.17	92.25	0.12
50.50	0.40	64.50	0.25	78.50	0.17	92.50	0.12
50.75	0.40	64.75	0.25	78.75	0.17	92.75	0.12
51.00	0.40	65.00	0.24	79.00	0.17	93.00	0.12
51.25	0.39	65.25	0.24	79.25	0.16	93.25	0.12
51.50	0.39	65.50	0.24	79.50	0.16	93.50	0.12
51.75	0.38	65.75	0.24	79.75	0.16	93.75	0.12
52.00	0.38	66.00	0.24	80.00	0.16	94.00	0.12
52.25	0.38	66.25	0.23	80.25	0.16	94.25	0.12
52.50	0.37	66.50	0.23	80.50	0.16	94.50	0.12
52.75	0.37	66.75	0.23	80.75	0.16	94.75	0.11
53.00	0.37	67.00	0.23	81.00	0.16	95.00	0.11
53.25	0.36	67.25	0.23	81.25	0.16	95.25	0.11
53.50	0.36	67.50	0.23	81.50	0.16	95.50	0.11
53.75	0.36	67.75	0.22	81.75	0.15	95.75	0.11
54.00	0.35	68.00	0.22	82.00	0.15	96.00	0.11

Table 6 – 70%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 80%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.32 15.8 Inches

BioInitiative ft. 108.50 1302.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	9419.52	10.25	11.20	20.25	2.87	30.25	1.29
0.50	3767.81	10.50	10.67	20.50	2.80	30.50	1.27
0.75	1883.90	10.75	10.18	20.75	2.73	30.75	1.25
1.00	1108.18	11.00	9.73	21.00	2.67	31.00	1.23
1.25	724.58	11.25	9.30	21.25	2.61	31.25	1.21
1.50	509.16	11.50	8.90	21.50	2.55	31.50	1.19
1.75	376.78	11.75	8.52	21.75	2.49	31.75	1.17
2.00	289.83	12.00	8.17	22.00	2.43	32.00	1.15
2.25	229.74	12.25	7.84	22.25	2.38	32.25	1.13
2.50	186.53	12.50	7.53	22.50	2.33	32.50	1.11
2.75	154.42	12.75	7.24	22.75	2.27	32.75	1.10
3.00	129.92	13.00	6.96	23.00	2.23	33.00	1.08
3.25	110.82	13.25	6.70	23.25	2.18	33.25	1.06
3.50	95.63	13.50	6.46	23.50	2.13	33.50	1.05
3.75	83.36	13.75	6.23	23.75	2.09	33.75	1.03
4.00	73.30	14.00	6.01	24.00	2.04	34.00	1.02
4.25	64.96	14.25	5.80	24.25	2.00	34.25	1.00
4.50	57.97	14.50	5.60	24.50	1.96	34.50	0.99
4.75	52.04	14.75	5.41	24.75	1.92	34.75	0.98
5.00	46.98	15.00	5.23	25.00	1.88	35.00	0.96
5.25	42.62	15.25	5.06	25.25	1.85	35.25	0.95
5.50	38.84	15.50	4.90	25.50	1.81	35.50	0.93
5.75	35.55	15.75	4.75	25.75	1.78	35.75	0.92
6.00	32.65	16.00	4.60	26.00	1.74	36.00	0.91
6.25	30.09	16.25	4.46	26.25	1.71	36.25	0.90
6.50	27.83	16.50	4.32	26.50	1.68	36.50	0.88
6.75	25.81	16.75	4.20	26.75	1.65	36.75	0.87
7.00	24.00	17.00	4.07	27.00	1.62	37.00	0.86
7.25	22.37	17.25	3.96	27.25	1.59	37.25	0.85
7.50	20.91	17.50	3.84	27.50	1.56	37.50	0.84
7.75	19.58	17.75	3.74	27.75	1.53	37.75	0.83
8.00	18.38	18.00	3.63	28.00	1.50	38.00	0.82
8.25	17.28	18.25	3.53	28.25	1.48	38.25	0.80
8.50	16.28	18.50	3.44	28.50	1.45	38.50	0.79
8.75	15.37	18.75	3.35	28.75	1.42	38.75	0.78
9.00	14.53	19.00	3.26	29.00	1.40	39.00	0.77
9.25	13.75	19.25	3.18	29.25	1.38	39.25	0.76
9.50	13.04	19.50	3.10	29.50	1.35	39.50	0.75
9.75	12.38	19.75	3.02	29.75	1.33	39.75	0.75
10.00	11.77	20.00	2.94	30.00	1.31	40.00	0.74

Notes:

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

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

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 80%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.32

15.81 Inches

BioInitiative ft. 108.50

1302.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.73	54.25	0.40	68.25	0.25	82.25	0.17
40.50	0.72	54.50	0.40	68.50	0.25	82.50	0.17
40.75	0.71	54.75	0.39	68.75	0.25	82.75	0.17
41.00	0.70	55.00	0.39	69.00	0.25	83.00	0.17
41.25	0.69	55.25	0.39	69.25	0.25	83.25	0.17
41.50	0.68	55.50	0.38	69.50	0.24	83.50	0.17
41.75	0.68	55.75	0.38	69.75	0.24	83.75	0.17
42.00	0.67	56.00	0.38	70.00	0.24	84.00	0.17
42.25	0.66	56.25	0.37	70.25	0.24	84.25	0.17
42.50	0.65	56.50	0.37	70.50	0.24	84.50	0.16
42.75	0.64	56.75	0.37	70.75	0.24	84.75	0.16
43.00	0.64	57.00	0.36	71.00	0.23	85.00	0.16
43.25	0.63	57.25	0.36	71.25	0.23	85.25	0.16
43.50	0.62	57.50	0.36	71.50	0.23	85.50	0.16
43.75	0.62	57.75	0.35	71.75	0.23	85.75	0.16
44.00	0.61	58.00	0.35	72.00	0.23	86.00	0.16
44.25	0.60	58.25	0.35	72.25	0.23	86.25	0.16
44.50	0.59	58.50	0.34	72.50	0.22	86.50	0.16
44.75	0.59	58.75	0.34	72.75	0.22	86.75	0.16
45.00	0.58	59.00	0.34	73.00	0.22	87.00	0.16
45.25	0.58	59.25	0.34	73.25	0.22	87.25	0.15
45.50	0.57	59.50	0.33	73.50	0.22	87.50	0.15
45.75	0.56	59.75	0.33	73.75	0.22	87.75	0.15
46.00	0.56	60.00	0.33	74.00	0.22	88.00	0.15
46.25	0.55	60.25	0.32	74.25	0.21	88.25	0.15
46.50	0.54	60.50	0.32	74.50	0.21	88.50	0.15
46.75	0.54	60.75	0.32	74.75	0.21	88.75	0.15
47.00	0.53	61.00	0.32	75.00	0.21	89.00	0.15
47.25	0.53	61.25	0.31	75.25	0.21	89.25	0.15
47.50	0.52	61.50	0.31	75.50	0.21	89.50	0.15
47.75	0.52	61.75	0.31	75.75	0.21	89.75	0.15
48.00	0.51	62.00	0.31	76.00	0.20	90.00	0.15
48.25	0.51	62.25	0.30	76.25	0.20	90.25	0.14
48.50	0.50	62.50	0.30	76.50	0.20	90.50	0.14
48.75	0.50	62.75	0.30	76.75	0.20	90.75	0.14
49.00	0.49	63.00	0.30	77.00	0.20	91.00	0.14
49.25	0.49	63.25	0.29	77.25	0.20	91.25	0.14
49.50	0.48	63.50	0.29	77.50	0.20	91.50	0.14
49.75	0.48	63.75	0.29	77.75	0.19	91.75	0.14
50.00	0.47	64.00	0.29	78.00	0.19	92.00	0.14
50.25	0.47	64.25	0.29	78.25	0.19	92.25	0.14
50.50	0.46	64.50	0.28	78.50	0.19	92.50	0.14
50.75	0.46	64.75	0.28	78.75	0.19	92.75	0.14
51.00	0.45	65.00	0.28	79.00	0.19	93.00	0.14
51.25	0.45	65.25	0.28	79.25	0.19	93.25	0.14
51.50	0.44	65.50	0.27	79.50	0.19	93.50	0.13
51.75	0.44	65.75	0.27	79.75	0.19	93.75	0.13
52.00	0.44	66.00	0.27	80.00	0.18	94.00	0.13
52.25	0.43	66.25	0.27	80.25	0.18	94.25	0.13
52.50	0.43	66.50	0.27	80.50	0.18	94.50	0.13
52.75	0.42	66.75	0.26	80.75	0.18	94.75	0.13
53.00	0.42	67.00	0.26	81.00	0.18	95.00	0.13
53.25	0.42	67.25	0.26	81.25	0.18	95.25	0.13
53.50	0.41	67.50	0.26	81.50	0.18	95.50	0.13
53.75	0.41	67.75	0.26	81.75	0.18	95.75	0.13
54.00	0.40	68.00	0.25	82.00	0.18	96.00	0.13

Table 6 – 80%

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 90%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.40 16.8 Inches

BioInitiative ft. 115.00 1380.0 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
0.25	10596.96	10.25	12.60	20.25	3.23	30.25	1.45
0.50	4238.79	10.50	12.01	20.50	3.15	30.50	1.42
0.75	2119.39	10.75	11.46	20.75	3.08	30.75	1.40
1.00	1246.70	11.00	10.94	21.00	3.00	31.00	1.38
1.25	815.15	11.25	10.46	21.25	2.93	31.25	1.36
1.50	572.81	11.50	10.01	21.50	2.87	31.50	1.33
1.75	423.88	11.75	9.59	21.75	2.80	31.75	1.31
2.00	326.06	12.00	9.19	22.00	2.74	32.00	1.29
2.25	258.46	12.25	8.82	22.25	2.68	32.25	1.27
2.50	209.84	12.50	8.47	22.50	2.62	32.50	1.25
2.75	173.72	12.75	8.15	22.75	2.56	32.75	1.23
3.00	146.17	13.00	7.84	23.00	2.50	33.00	1.22
3.25	124.67	13.25	7.54	23.25	2.45	33.25	1.20
3.50	107.58	13.50	7.27	23.50	2.40	33.50	1.18
3.75	93.78	13.75	7.00	23.75	2.35	33.75	1.16
4.00	82.47	14.00	6.76	24.00	2.30	34.00	1.15
4.25	73.08	14.25	6.52	24.25	2.25	34.25	1.13
4.50	65.21	14.50	6.30	24.50	2.21	34.50	1.11
4.75	58.55	14.75	6.09	24.75	2.16	34.75	1.10
5.00	52.85	15.00	5.89	25.00	2.12	35.00	1.08
5.25	47.95	15.25	5.69	25.25	2.08	35.25	1.07
5.50	43.70	15.50	5.51	25.50	2.04	35.50	1.05
5.75	39.99	15.75	5.34	25.75	2.00	35.75	1.04
6.00	36.73	16.00	5.17	26.00	1.96	36.00	1.02
6.25	33.86	16.25	5.02	26.25	1.92	36.25	1.01
6.50	31.31	16.50	4.86	26.50	1.89	36.50	0.99
6.75	29.03	16.75	4.72	26.75	1.85	36.75	0.98
7.00	27.00	17.00	4.58	27.00	1.82	37.00	0.97
7.25	25.17	17.25	4.45	27.25	1.78	37.25	0.95
7.50	23.52	17.50	4.32	27.50	1.75	37.50	0.94
7.75	22.03	17.75	4.20	27.75	1.72	37.75	0.93
8.00	20.68	18.00	4.09	28.00	1.69	38.00	0.92
8.25	19.44	18.25	3.98	28.25	1.66	38.25	0.91
8.50	18.32	18.50	3.87	28.50	1.63	38.50	0.89
8.75	17.29	18.75	3.77	28.75	1.60	38.75	0.88
9.00	16.34	19.00	3.67	29.00	1.57	39.00	0.87
9.25	15.47	19.25	3.57	29.25	1.55	39.25	0.86
9.50	14.67	19.50	3.48	29.50	1.52	39.50	0.85
9.75	13.93	19.75	3.40	29.75	1.50	39.75	0.84
10.00	13.24	20.00	3.31	30.00	1.47	40.00	0.83

Notes:

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

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

SMART Meter Power Density Computer Modeling

(8 SMART Meters – 100% reflections)

Meters 8 Electric SMART Meters

Time Avg: 90%

% Reflection 100%

Distance where limits are exceeded

FCC ft. 1.40

16.81 Inches

BioInitiative ft. 115.00

1380.00 Inches

Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²	Distance (ft)	uW/cm ²
40.25	0.82	54.25	0.45	68.25	0.28	82.25	0.20
40.50	0.81	54.50	0.45	68.50	0.28	82.50	0.19
40.75	0.80	54.75	0.44	68.75	0.28	82.75	0.19
41.00	0.79	55.00	0.44	69.00	0.28	83.00	0.19
41.25	0.78	55.25	0.43	69.25	0.28	83.25	0.19
41.50	0.77	55.50	0.43	69.50	0.27	83.50	0.19
41.75	0.76	55.75	0.43	69.75	0.27	83.75	0.19
42.00	0.75	56.00	0.42	70.00	0.27	84.00	0.19
42.25	0.74	56.25	0.42	70.25	0.27	84.25	0.19
42.50	0.73	56.50	0.41	70.50	0.27	84.50	0.19
42.75	0.72	56.75	0.41	70.75	0.26	84.75	0.18
43.00	0.72	57.00	0.41	71.00	0.26	85.00	0.18
43.25	0.71	57.25	0.40	71.25	0.26	85.25	0.18
43.50	0.70	57.50	0.40	71.50	0.26	85.50	0.18
43.75	0.69	57.75	0.40	71.75	0.26	85.75	0.18
44.00	0.68	58.00	0.39	72.00	0.26	86.00	0.18
44.25	0.68	58.25	0.39	72.25	0.25	86.25	0.18
44.50	0.67	58.50	0.39	72.50	0.25	86.50	0.18
44.75	0.66	58.75	0.38	72.75	0.25	86.75	0.18
45.00	0.65	59.00	0.38	73.00	0.25	87.00	0.18
45.25	0.65	59.25	0.38	73.25	0.25	87.25	0.17
45.50	0.64	59.50	0.37	73.50	0.25	87.50	0.17
45.75	0.63	59.75	0.37	73.75	0.24	87.75	0.17
46.00	0.63	60.00	0.37	74.00	0.24	88.00	0.17
46.25	0.62	60.25	0.36	74.25	0.24	88.25	0.17
46.50	0.61	60.50	0.36	74.50	0.24	88.50	0.17
46.75	0.61	60.75	0.36	74.75	0.24	88.75	0.17
47.00	0.60	61.00	0.36	75.00	0.24	89.00	0.17
47.25	0.59	61.25	0.35	75.25	0.23	89.25	0.17
47.50	0.59	61.50	0.35	75.50	0.23	89.50	0.17
47.75	0.58	61.75	0.35	75.75	0.23	89.75	0.16
48.00	0.57	62.00	0.34	76.00	0.23	90.00	0.16
48.25	0.57	62.25	0.34	76.25	0.23	90.25	0.16
48.50	0.56	62.50	0.34	76.50	0.23	90.50	0.16
48.75	0.56	62.75	0.34	76.75	0.22	90.75	0.16
49.00	0.55	63.00	0.33	77.00	0.22	91.00	0.16
49.25	0.55	63.25	0.33	77.25	0.22	91.25	0.16
49.50	0.54	63.50	0.33	77.50	0.22	91.50	0.16
49.75	0.54	63.75	0.33	77.75	0.22	91.75	0.16
50.00	0.53	64.00	0.32	78.00	0.22	92.00	0.16
50.25	0.52	64.25	0.32	78.25	0.22	92.25	0.16
50.50	0.52	64.50	0.32	78.50	0.21	92.50	0.15
50.75	0.51	64.75	0.32	78.75	0.21	92.75	0.15
51.00	0.51	65.00	0.31	79.00	0.21	93.00	0.15
51.25	0.50	65.25	0.31	79.25	0.21	93.25	0.15
51.50	0.50	65.50	0.31	79.50	0.21	93.50	0.15
51.75	0.49	65.75	0.31	79.75	0.21	93.75	0.15
52.00	0.49	66.00	0.30	80.00	0.21	94.00	0.15
52.25	0.49	66.25	0.30	80.25	0.21	94.25	0.15
52.50	0.48	66.50	0.30	80.50	0.20	94.50	0.15
52.75	0.48	66.75	0.30	80.75	0.20	94.75	0.15
53.00	0.47	67.00	0.30	81.00	0.20	95.00	0.15
53.25	0.47	67.25	0.29	81.25	0.20	95.25	0.15
53.50	0.46	67.50	0.29	81.50	0.20	95.50	0.15
53.75	0.46	67.75	0.29	81.75	0.20	95.75	0.14
54.00	0.45	68.00	0.29	82.00	0.20	96.00	0.14

Table 6 – 90%