

Environmental Protection

The proposed facility has been built using a 2-bay vertically polarized fullwave spaced antenna with a center of radiation of 28m above ground. The form 340 application for construction permit specified a Shively 6020 2 bay fullwaved spaced antenna. Since that application was filed the antenna is no longer available. A Shivley model 6513 2 bay fullwaved spaced antenna has been installed.

To fulfill Special Operating Procedure Number Six, this revised RF Radiation study is being submitted demonstrating continued compliance with the RF Electromagnetic Field Exposure Guidelines.

The maximum theoretical RF value would be $20.98\mu\text{W}/\text{cm}^2$ at a distance of 18 meters from the tower, which is 10.49% of the $200\mu\text{W}/\text{cm}^2$ permitted for public (uncontrolled) exposure, and 2.01% of the $1000\mu\text{W}/\text{cm}^2$ permitted for worker (controlled) exposure.

Therefore, the proposed facility complies with the requirements of OET 65.

WSKG Public Telecommunications Council will fully cooperate with other future site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.

RF Analysis: Greene, NY
WSQG
201
B1
WSQG
Site type: Application
Channel: 201
Class: B1
ERP: 4.5kw
Antenna: Shively 6513-2-DA
 Dipole
 2 bay
 Fullwave
COR AGL: 28m
Polarization: Vertical Pol

Distance From Tower (m)	WSQG Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	3.759	3.76	1.88
1	4.205	4.21	2.10
2	4.663	4.66	2.33
3	5.337	5.34	2.67
4	6.213	6.21	3.11
5	7.149	7.15	3.57
6	8.674	8.67	4.34
7	10.253	10.25	5.13
8	11.590	11.59	5.80
9	12.620	12.62	6.31
10	13.566	13.57	6.78
11	15.533	15.53	7.77
12	17.667	17.67	8.83
13	19.643	19.64	9.82
14	20.232	20.23	10.12
15	20.541	20.54	10.27
16	20.639	20.64	10.32
17	20.895	20.90	10.45
18	20.981	20.98	10.49
19	20.829	20.83	10.41
20	20.591	20.59	10.30
21	20.328	20.33	10.16
22	19.835	19.84	9.92
23	19.142	19.14	9.57
24	18.199	18.20	9.10
25	17.063	17.06	8.53
26	15.850	15.85	7.92
27	14.588	14.59	7.29
28	13.305	13.30	6.65
29	12.100	12.10	6.05
30	10.897	10.90	5.45
31	9.715	9.72	4.86
32	8.572	8.57	4.29
33	7.482	7.48	3.74
34	6.416	6.42	3.21
35	5.418	5.42	2.71
36	4.515	4.52	2.26
37	3.708	3.71	1.85
38	2.994	2.99	1.50
39	2.370	2.37	1.18
40	1.832	1.83	0.92
41	1.380	1.38	0.69
42	1.002	1.00	0.50
43	0.692	0.69	0.35
44	0.447	0.45	0.22
45	0.260	0.26	0.13

Distance From Tower (m)	WSQG Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	0.128	0.13	0.06
47	0.044	0.04	0.02
48	0.005	0.00	0.00
49	0.005	0.00	0.00
50	0.039	0.04	0.02
51	0.104	0.10	0.05
52	0.195	0.19	0.10
53	0.308	0.31	0.15
54	0.439	0.44	0.22
55	0.586	0.59	0.29
56	0.745	0.75	0.37
57	0.914	0.91	0.46
58	1.091	1.09	0.55
59	1.273	1.27	0.64
60	1.459	1.46	0.73
61	1.646	1.65	0.82
62	1.833	1.83	0.92
63	2.019	2.02	1.01
64	2.203	2.20	1.10
65	2.385	2.38	1.19
66	2.563	2.56	1.28
67	2.737	2.74	1.37
68	2.906	2.91	1.45
69	3.071	3.07	1.54
70	3.229	3.23	1.61
71	3.382	3.38	1.69
72	3.530	3.53	1.76
73	3.671	3.67	1.84
74	3.806	3.81	1.90
75	3.935	3.93	1.97
76	4.057	4.06	2.03
77	4.174	4.17	2.09
78	4.280	4.28	2.14
79	4.380	4.38	2.19
80	4.474	4.47	2.24
81	4.562	4.56	2.28
82	4.644	4.64	2.32
83	4.721	4.72	2.36
84	4.793	4.79	2.40
85	4.859	4.86	2.43
86	4.920	4.92	2.46
87	4.977	4.98	2.49
88	5.029	5.03	2.51
89	5.076	5.08	2.54
90	5.119	5.12	2.56
91	5.158	5.16	2.58
92	5.193	5.19	2.60
93	5.224	5.22	2.61
94	5.252	5.25	2.63
95	5.276	5.28	2.64
96	5.297	5.30	2.65
97	5.314	5.31	2.66
98	5.329	5.33	2.66
99	5.341	5.34	2.67
100	5.350	5.35	2.68