

Compliance with Special Operating Conditions

The K234BS Construction Permit (File Number 0000197050) contains Special Operating Conditions:

- 1. The permittee/licensee in coordination with other users of the site must reduce power or cease operation as necessary to protect persons having access to the site, tower or antenna from radiofrequency electromagnetic fields in excess of FCC guidelines.*
- 2. Prior to commencing program test operations, FM Translator or FM Booster permittee must have on file at the Commission, FCC Form 350, Application for an FM Translator or FM Booster Station License, pursuant to 47 C.F.R. Section 74.14.*
- 3. Warning signs which describe the radiofrequency electromagnetic filed radiation hazard must be posted at appropriate intervals. Access must be restricted to prevent the exposure of humans to RF emissions in excess of the FCC guidelines (OET Bulletin 65, Edition 97.01, released August 1997). Permittee shall submit documentation of compliance with this special operating condition when filing FCC Application for license.*

Educational Media Foundation ("EMF") complies with, or agrees to, the condition as follows:

1. EMF in coordination with other users of the site agrees to reduce power or cease operation as necessary to protect persons having access to the site, tower, or antenna, from radiofrequency electromagnetic fields in excess of FCC guidelines.
2. Form 350 is being filed prior to commencing program test operations.
3. A close examination of the premises has resulted with the conclusion of no RF Signs needed. Access is restricted to the rooftop of this building in that there is no access. A ladder is needed to gain access to the rooftop and no ladder is left in place which would allow inadvertent access to the rooftop.

Pictures of the building and rooftop tower are included in this license application. The upper antenna is the transmit antenna. The lower identical antenna is a receive only antenna utilized to receive the primary station audio.

Educational Media Foundation

5700 West Oaks Boulevard
Rocklin, CA 95765

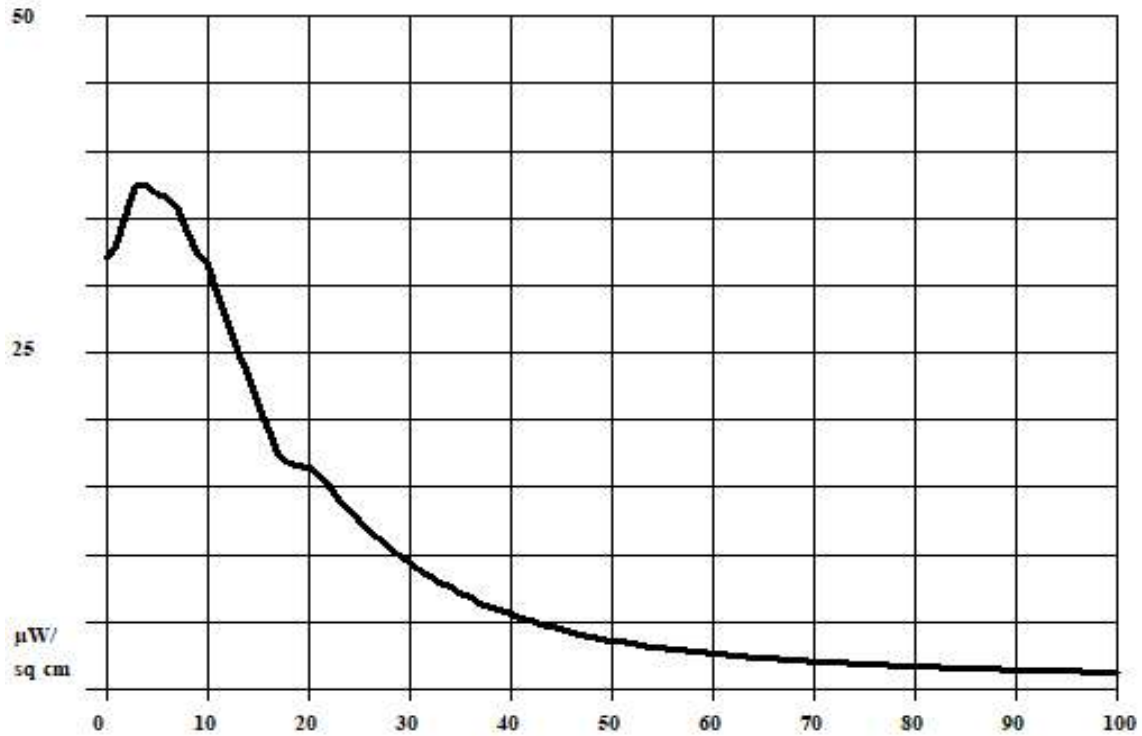
K234BS
Las Vegas, NV

The rooftop elevation above ground at the base of the tower is 21 feet. At no point on the rooftop is there a higher elevation than at the base of the tower. Taking into consideration the Center of Radiation above ground of 23 meters (75 feet) minus the rooftop elevation of 21 feet equals 54 feet. Allowing for the height of human being of 6 feet would place the antenna center of radiation 48 feet (14.6 meters) above head height.

Using a height of 14.6 meters as a basis for the RF Study and 250w Vertical Polarization with a Worst-Case Ring Stub EPA Type 1 antenna results in a maximum RF level of $37.32\mu\text{w}/\text{cm}^2$ or 18.66% of the uncontrolled environment. This maximum level is located 3 meters from the base of the rooftop tower. The K234BS transmit antenna utilizes a Vertically Polarized Scala YA7-FML yagi style antenna with much less downward radiation than the "worst-case" Ring Stub EPA Type 1 used in this calculation. The study results are included in this license application.

At no point on the inaccessible rooftop does the RF level exceed that which is allowed for an uncontrolled environment. At no point is the rooftop accessible to the general public. Therefore, EMF believes that K234BS is in full compliance with the RF Radiation Guidelines of OET 65.

Environment = Uncontrolled, Maximum = 200 $\mu\text{W}/\text{sq cm}$
 Phelps-Dodge "Ring Stub" (EPA)-Type 1, 1 Bay, Spac= 1, H=0 kW, V=.25 kW, 14.6 MAG



HORZ. DISTANCE FROM FM RADIATOR VS POWER DENSITY (Microwatt/Square cm)
 Dist(Meters) PD (H) PD (V) Total(uW/cm2) Percent Max.

0	0.00	31.74	31.74	15.9
1	0.00	32.81	32.81	16.4
2	0.00	35.45	35.45	17.7
3	0.00	37.32	37.32	18.7
4	0.00	37.25	37.25	18.6
5	0.00	36.59	36.59	18.3
6	0.00	36.29	36.29	18.1
7	0.00	35.68	35.68	17.8
8	0.00	33.75	33.75	16.9
9	0.00	32.36	32.36	16.2
10	0.00	31.28	31.28	15.6
11	0.00	29.20	29.20	14.6
12	0.00	26.98	26.98	13.5
13	0.00	24.91	24.91	12.5
14	0.00	23.01	23.01	11.5
15	0.00	21.05	21.05	10.5
16	0.00	19.00	19.00	9.5
17	0.00	17.18	17.18	8.6
18	0.00	16.46	16.46	8.2
19	0.00	16.31	16.31	8.2
20	0.00	16.09	16.09	8.0
21	0.00	15.71	15.71	7.9
22	0.00	14.74	14.74	7.4
23	0.00	13.84	13.84	6.9
24	0.00	13.02	13.02	6.5
25	0.00	12.26	12.26	6.1

Dist(Meters)	PD (H)	PD (V)	Total(uW/cm2)	Percent Max.
26	0.00	11.52	11.52	5.8
27	0.00	10.82	10.82	5.4
28	0.00	10.18	10.18	5.1
29	0.00	9.59	9.59	4.8
30	0.00	9.05	9.05	4.5
31	0.00	8.54	8.54	4.3
32	0.00	8.05	8.05	4.0
33	0.00	7.58	7.58	3.8
34	0.00	7.15	7.15	3.6
35	0.00	6.75	6.75	3.4
36	0.00	6.38	6.38	3.2
37	0.00	6.04	6.04	3.0
38	0.00	5.73	5.73	2.9
39	0.00	5.43	5.43	2.7
40	0.00	5.16	5.16	2.6
41	0.00	4.90	4.90	2.5
42	0.00	4.66	4.66	2.3
43	0.00	4.43	4.43	2.2
44	0.00	4.22	4.22	2.1
45	0.00	4.03	4.03	2.0
46	0.00	3.84	3.84	1.9
47	0.00	3.67	3.67	1.8
48	0.00	3.51	3.51	1.8
49	0.00	3.36	3.36	1.7
50	0.00	3.22	3.22	1.6
51	0.00	3.08	3.08	1.5
52	0.00	2.96	2.96	1.5
53	0.00	2.84	2.84	1.4
54	0.00	2.73	2.73	1.4
55	0.00	2.63	2.63	1.3
56	0.00	2.54	2.54	1.3
57	0.00	2.45	2.45	1.2
58	0.00	2.37	2.37	1.2
59	0.00	2.30	2.30	1.1
60	0.00	2.22	2.22	1.1
61	0.00	2.15	2.15	1.1
62	0.00	2.09	2.09	1.0
63	0.00	2.02	2.02	1.0
64	0.00	1.96	1.96	1.0
65	0.00	1.90	1.90	1.0
66	0.00	1.85	1.85	0.9
67	0.00	1.79	1.79	0.9
68	0.00	1.74	1.74	0.9
69	0.00	1.69	1.69	0.8
70	0.00	1.65	1.65	0.8
71	0.00	1.60	1.60	0.8
72	0.00	1.56	1.56	0.8
73	0.00	1.51	1.51	0.8
74	0.00	1.47	1.47	0.7
75	0.00	1.44	1.44	0.7
76	0.00	1.40	1.40	0.7
77	0.00	1.36	1.36	0.7

Dist (Meters)	PD (H)	PD (V)	Total (uW/cm2)	Percent Max.
78	0.00	1.33	1.33	0.7
79	0.00	1.30	1.30	0.6
80	0.00	1.26	1.26	0.6
81	0.00	1.23	1.23	0.6
82	0.00	1.20	1.20	0.6
83	0.00	1.18	1.18	0.6
84	0.00	1.15	1.15	0.6
85	0.00	1.12	1.12	0.6
86	0.00	1.10	1.10	0.5
87	0.00	1.07	1.07	0.5
88	0.00	1.05	1.05	0.5
89	0.00	1.03	1.03	0.5
90	0.00	1.00	1.00	0.5
91	0.00	0.98	0.98	0.5
92	0.00	0.96	0.96	0.5
93	0.00	0.94	0.94	0.5
94	0.00	0.92	0.92	0.5
95	0.00	0.90	0.90	0.5
96	0.00	0.89	0.89	0.4
97	0.00	0.87	0.87	0.4
98	0.00	0.85	0.85	0.4
99	0.00	0.83	0.83	0.4
100	0.00	0.82	0.82	0.4



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Receive Antenna