

**Compliance Evaluation with FCC Guidelines for Human Exposure to
Electromagnetic Fields for
KEAG-FM, Channel 247C1, Anchorage, AK**

On December 1, 2006 Radio Frequency Radiation (RFR) measurements were made at the multi-user site located at 11259 Tower Road, in Anchorage, AK (Klatt Site). These measurements were made to determine compliance with FCC Guidelines with regard to the 1997 limits for Maximum Permissible Exposure (MPE).

The Klatt Site is a multi-user communications site for the following broadcast facilities:

Klatt Tower 1	Frequency	Power	λ – AGL	Antenna
KHAR-AM	590 khz	5kw	.21 λ	
KUDO-AM	1080 khz	10kw	.38 λ	
KBRJ-FM	104.1 mhz	55kw	100m	DCRM-6
KDBZ-FM	102.1 mhz	23kw	100m	DCRM-6
KEAG-FM (CP)*	97.3 mhz	55kw	100m	DCRM-6
Klatt Tower 2				
KAKL-FM	88.5 mhz	11kw	67.8m	SWR FM10/2
KWHL-FM	106.5 mhz	100kw	97m	SHPX12AE (.5 λ)

*KEAG currently operates on STA facilities. The Licensed site for KEAG is no longer in operation. This study was undertaken using KEAG's CP (55kw ERP) facilities.

The entrance to the site is precluded by vehicular access by a locked gate across the access road. MCC Radio certifies that at both the Klatt 1 and Klatt 2 towers are surrounded by fence with a locked gate at their base which precludes casual or inadvertent access. Each fence is constructed a minimum of 2 meters from the base of each tower. Appropriate RFR warning signs are posted at intervals around the perimeter of the fences at the base of each tower.

Although the site is on private property, it is possible that a human could gain access to the uncontrolled areas of the Klatt Site. For the purposes of this study, the areas inside the locked fences at the base of the Klatt 1 and Klatt 2 towers as well as the transmitter buildings which are securely locked are considered to be "Controlled" environments. The areas outside the fences and buildings are considered to be uncontrolled. The readings were taken at different points in the uncontrolled areas nearest the tower fences and in areas along the access roads and trails.

A Narda Microwave model 8718B RFR meter (Serial # 1531) with a model A8742D E-Field probe (Serial # 13008) and a model A8732D H-Field Probe (Serial # 08003) were used for these measurements. The meter and probes were calibrated in September of 2005.

The probes used are "shaped" probes, with a frequency response that allows the meter to display in percentage of MPE for Occupational/Controlled Exposure. The 1997 FCC Standards were used for the purposes of this survey.

The measurements were taken according to the manufacturer's recommended procedures. Using these procedures, a peak reading was attained and recorded at each point. The results are shown in the table provided. The first row shows the actual Occupational/Controlled MPE as read on the meter taking into account all radiated frequencies between 300khz and 3 ghz (this column will also pertain directly to the AM field MPE for Population/Uncontrolled) the second column shows a factor for determining the Population/Uncontrolled field for the FM facilities on the Klatt Site. The third column is the calculated MPE for FM Population/Uncontrolled areas.

For the FM Readings, the MPE for General Population/Uncontrolled Exposure is 20% of the Occupational/Controlled Exposure limit. To calculate the MPE for the General

Population/Uncontrolled level, The MPE reading for Occupational/Controlled was multiplied by a factor of 5.

For the AM Readings, the MPE for General Population/Uncontrolled Exposure is 100% of the Occupational/Controlled Exposure limit. To determine readings for the General Population/Uncontrolled level, the reading is read directly on the meter.

In no instance were the 1997 FCC Limits for MPE for Population/Uncontrolled areas exceeded at the Klatt Site. Results are attached.

KEAG-FM, in coordination with other users of the site, will 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.

I certify that this RFR survey was conducted under my direct supervision and within the manufacturer's and FCC's guidelines and is true to the best of my knowledge and abilities.

A handwritten signature in black ink, appearing to read 'J. White', is centered on a white rectangular background.

James (Jay) White, CSRE
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Klatt 1

Station: KHAR-AM
KUDO-AM
KEAG-FM
KBRJ-FM
KDBZ-FM
KWHL-FM
KAKL-FM

Date: December 1, 2006

Point #	Controlled	Factor	Uncontrolled Calculated
	MPE % (E)		MPE %
1	6.00	5	30.00
2	6.30	5	31.50
3	5.60	5	28.00
4	6.20	5	31.00
5	1.60	5	8.00
6	1.30	5	6.50
7	0.69	5	3.45
8	0.98	5	4.90
9	1.62	5	8.10
10	2.43	5	12.15
11	2.34	5	11.70
12	1.72	5	8.60
13	2.08	5	10.40
14	1.52	5	7.60
15	1.00	5	5.00
16	1.00	5	5.00
17	0.70	5	3.50
18	0.62	5	3.10
19	0.00	5	0.00
20	0.50	5	2.50

Point #	MPE % (A)	Factor	MPE %
1	3.74	5	18.70
2	4.16	5	20.80
3	2.24	5	11.20
4	0.33	5	1.65
5	0.65	5	3.25
6	0.69	5	3.45
7	0.95	5	4.75
8	0.96	5	4.80
9	4.05	5	20.25
10	1.68	5	8.40
11	2.73	5	13.65
12	3.23	5	16.15
13	3.53	5	17.65
14	2.03	5	10.15
15	2.48	5	12.40
16	2.48	5	12.40
17	1.86	5	9.30
18	1.32	5	6.60
19	1.37	5	6.85
20	2.16	5	10.80

Klatt 2

Station: KHAR-AM
KUDO-AM
KEAG-FM
KBRJ-FM
KDBZ-FM
KWHL-FM
KAKL-FM

Date: December 1, 2006

Point #	Controlled		Uncontrolled Calculated
	MPE % (E)	Factor	MPE %
1	6.08	5	30.40
2	3.36	5	16.80
3	5.19	5	25.95
4	2.25	5	11.25
5	4.83	5	24.15
6	2.75	5	13.75
7	0.62	5	3.10
8	1.94	5	9.70
9	0.56	5	2.80
10	3.15	5	15.75
11	0.84	5	4.20
12	1.86	5	9.30
13	1.04	5	5.20
14	3.72	5	18.60
15	1.86	5	9.30
16	2.85	5	14.25

Point #	MPE % (A)	Factor	MPE %
1	2.38	5	11.90
2	4.63	5	23.15
3	1.92	5	9.60
4	8.71	5	43.55
5	2.27	5	11.35
6	0	5	0.00
7	1.84	5	9.20
8	4.26	5	21.30
9	2.73	5	13.65
10	9.64	5	48.20
11	2.72	5	13.60
12	3.68	5	18.40
13	2.47	5	12.35
14	0.82	5	4.10
15	2.05	5	10.25
16	2.74	5	13.70

