

Radiofrequency Electromagnetic Field Exposure Report

K256CH Wasilla, AK

FIN: 141059

99.1 MHz

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Introduction

The permittee for the K256CH construction permit (file number BMPFT-20160603ABC) is Educational Media Foundation. Per special operating condition #3 warning signs which describe the radiofrequency electromagnetic field 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. The permittee shall submit documentation of compliance with this special operating condition when filing FCC Form 350, application for license. Paul Jewusiak, a consulting engineer, completed the K256CH RF Exposure Study using a Narda NRM 550 instrument which properly analyzes and compensates for the requirements of OET-65. Measurements were taken while slowly moving the probe between approximately 2 and 8 feet above ground, as well as side-to-side while walking to and from each measurement point. If an area had higher than average readings, further investigation was conducted to determine the extent of the area.

Equipment

- Narda NRM-550 Serial # B-0760
- Date of Calibration: 01/21/2015
- Antenna Type: 2402/07

Summary

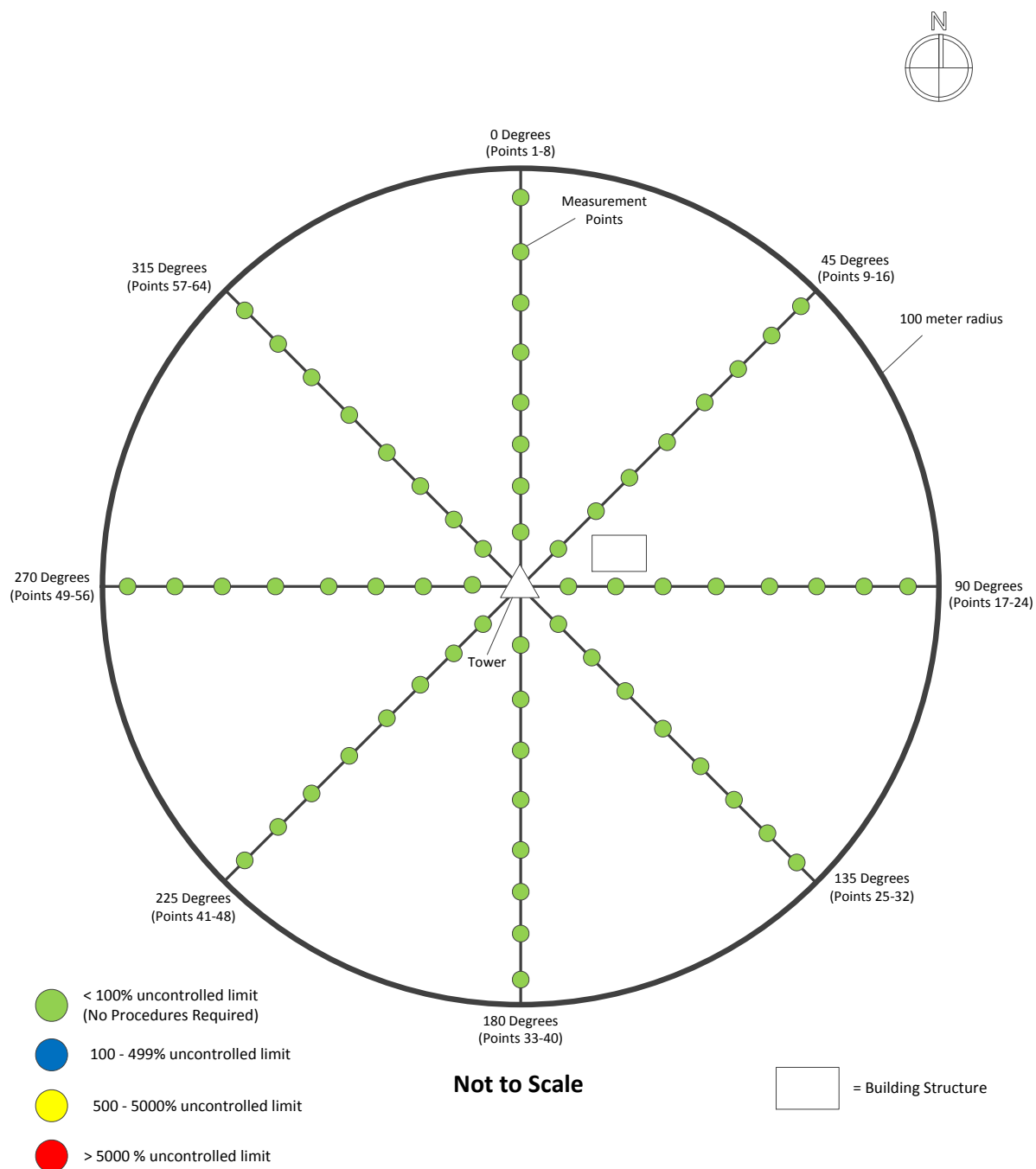
K256CH was confirmed to be operating at 100% ERP at the time of measurements. Measurement points were recorded along eight 100 meter walking radials, as well as throughout the accessible areas of the facility.

All accessible areas throughout the facility were measured to be below 100% of the uncontrolled limits of OET-65. Since all areas throughout the facility were measured to be below 100% of the uncontrolled limits of OET-65 no signage was installed. Fencing and gating have been installed to prevent public access to the facility.

Therefore, K256CH fully complies with the FCC's maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

Drawings

K256CH RF Exposure Measurement Area



Measurement Points

General Public and Occupational RFR Measurements

Point	Date & Time	Occupational %	General Public %
1	10/16/2016 18:01:32	6.95	34.73
2	10/16/2016 18:01:37	6.92	34.58
3	10/16/2016 18:01:42	7.05	35.24
4	10/16/2016 18:01:47	4.19	20.96
5	10/16/2016 18:01:52	5.05	25.27
6	10/16/2016 18:01:57	7.97	39.86
7	10/16/2016 18:02:02	8.38	41.88
8	10/16/2016 18:02:07	5.01	25.07
9	10/16/2016 18:02:12	9.13	45.66
10	10/16/2016 18:02:17	6.29	31.44
11	10/16/2016 18:02:22	6.05	30.26
12	10/16/2016 18:02:27	7.99	39.95
13	10/16/2016 18:02:32	9.14	45.68
14	10/16/2016 18:02:37	7.41	37.04
15	10/16/2016 18:02:42	6.56	32.82
16	10/16/2016 18:02:47	6.10	30.51
17	10/16/2016 18:02:52	4.32	21.60
18	10/16/2016 18:02:57	3.63	18.16
19	10/16/2016 18:03:02	3.83	19.15
20	10/16/2016 18:03:07	4.07	20.33
21	10/16/2016 18:03:12	3.99	19.96
22	10/16/2016 18:03:17	3.20	16.01
23	10/16/2016 18:03:22	2.36	11.79
24	10/16/2016 18:03:27	2.33	11.67
25	10/16/2016 18:03:32	2.22	11.11
26	10/16/2016 18:03:37	2.73	13.66
27	10/16/2016 18:03:42	2.39	11.97
28	10/16/2016 18:03:47	2.43	12.17
29	10/16/2016 18:03:52	2.65	13.25
30	10/16/2016 18:03:57	2.50	12.52
31	10/16/2016 18:04:02	2.45	12.23
32	10/16/2016 18:04:07	2.64	13.19

33	10/16/2016 18:04:12	2.41	12.06
34	10/16/2016 18:04:17	2.20	11.01
35	10/16/2016 18:04:22	2.75	13.73
36	10/16/2016 18:04:27	2.49	12.43
37	10/16/2016 18:04:32	1.99	9.93
38	10/16/2016 18:04:37	1.86	9.32
39	10/16/2016 18:04:42	1.80	8.99
40	10/16/2016 18:04:47	1.84	9.20
41	10/16/2016 18:04:52	2.04	10.20
42	10/16/2016 18:04:57	1.94	9.72
43	10/16/2016 18:05:02	2.26	11.31
44	10/16/2016 18:05:07	2.02	10.09
45	10/16/2016 18:05:12	2.09	10.44
46	10/16/2016 18:05:17	2.09	10.44
47	10/16/2016 18:05:22	2.61	13.04
48	10/16/2016 18:05:27	3.13	15.67
49	10/16/2016 18:05:32	3.80	18.98
50	10/16/2016 18:05:37	4.74	23.71
51	10/16/2016 18:05:42	4.77	23.86
52	10/16/2016 18:05:47	4.20	21.00
53	10/16/2016 18:05:52	4.91	24.53
54	10/16/2016 18:05:57	6.52	32.61
55	10/16/2016 18:06:02	6.12	30.61
56	10/16/2016 18:06:07	6.64	33.20
57	10/16/2016 18:06:12	5.57	27.83
58	10/16/2016 18:06:17	5.66	28.29
59	10/16/2016 18:06:22	10.20	51.00
60	10/16/2016 18:06:27	9.31	46.54
61	10/16/2016 18:06:32	8.57	42.83
62	10/16/2016 18:06:37	6.14	30.68
63	10/16/2016 18:06:42	5.01	25.07
64	10/16/2016 18:06:47	5.76	28.79
65	10/16/2016 18:06:52	5.91	29.56
66	10/16/2016 18:06:57	5.59	27.97
67	10/16/2016 18:07:02	5.41	27.05
68	10/16/2016 18:07:07	5.51	27.56
69	10/16/2016 18:07:12	5.81	29.06
70	10/16/2016 18:07:17	5.86	29.32
71	10/16/2016 18:07:22	5.17	25.85
72	10/16/2016 18:07:27	6.37	31.86

73	10/16/2016 18:07:32	5.92	29.58
74	10/16/2016 18:07:37	5.95	29.74
75	10/16/2016 18:07:42	7.62	38.12
76	10/16/2016 18:07:47	7.17	35.83
77	10/16/2016 18:07:52	6.97	34.83
78	10/16/2016 18:07:57	6.88	34.39
79	10/16/2016 18:08:02	12.63	63.15
80	10/16/2016 18:08:07	13.31	66.55
81	10/16/2016 18:08:12	12.82	64.10
82	10/16/2016 18:08:17	11.54	57.70
83	10/16/2016 18:08:22	11.45	57.25
84	10/16/2016 18:08:27	10.11	50.55
85	10/16/2016 18:08:32	10.68	53.40
86	10/16/2016 18:08:37	11.41	57.05
87	10/16/2016 18:08:42	12.04	60.20
88	10/16/2016 18:08:47	12.60	63.00
89	10/16/2016 18:08:52	15.92	79.60
90	10/16/2016 18:08:57	13.38	66.90
91	10/16/2016 18:09:02	9.66	48.29
92	10/16/2016 18:09:07	7.72	38.62
93	10/16/2016 18:09:12	9.08	45.40
94	10/16/2016 18:09:17	8.00	40.00
95	10/16/2016 18:09:22	12.35	61.75
96	10/16/2016 18:09:27	13.40	67.00
97	10/16/2016 18:09:32	11.39	56.95
98	10/16/2016 18:09:37	6.83	34.16
99	10/16/2016 18:09:42	4.34	21.71
100	10/16/2016 18:09:47	2.53	12.66
101	10/16/2016 18:09:52	2.99	14.95
102	10/16/2016 18:09:57	2.52	12.61
103	10/16/2016 18:10:02	4.61	23.04
104	10/16/2016 18:10:07	7.79	38.96
105	10/16/2016 18:10:12	8.98	44.88
106	10/16/2016 18:10:17	9.39	46.94
107	10/16/2016 18:10:22	10.53	52.65
108	10/16/2016 18:10:27	11.73	58.65
109	10/16/2016 18:10:32	9.45	47.25
110	10/16/2016 18:10:37	11.60	58.00
111	10/16/2016 18:10:42	11.23	56.15
112	10/16/2016 18:10:47	8.94	44.68

113	10/16/2016 18:10:52	4.74	23.68
114	10/16/2016 18:10:57	6.35	31.75
115	10/16/2016 18:11:02	5.24	26.22
116	10/16/2016 18:11:07	13.92	69.60
117	10/16/2016 18:11:12	5.67	28.35
118	10/16/2016 18:11:17	5.71	28.56
119	10/16/2016 18:11:22	8.07	40.35
120	10/16/2016 18:11:27	5.45	27.26