Radiofrequency Electromagnetic Field Exposure Report

KVLB Bend, OR

FIN: 90581

90.5 MHz

September 1, 2016

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Introduction

The permittee for the KVLB construction permit (file number BPED-20160330AAK) is Educational Media Foundation. Per special operating condition #5, upon completion of construction and during the equipment test period the permittee shall make proper radiofrequency electromagnetic (RF) field strength measurements throughout the transmitter site area to determine if there are any areas that exceed the FCC guidelines for human exposure to RF fields.. Stephen Wilde, an engineer employed by Educational Media Foundation, completed the KVLB RF Exposure Study using a Narda SRM3000 instrument which properly analyzes and compensates for frequency dependent variables in 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 SRM-3000 Serial # B-0070
- Date of Calibration: 3/17/2014
- Antenna Type: 3AX-50M-3G Serial # B-0057
- Firmware: SRM-FW V1.5.6

Summary

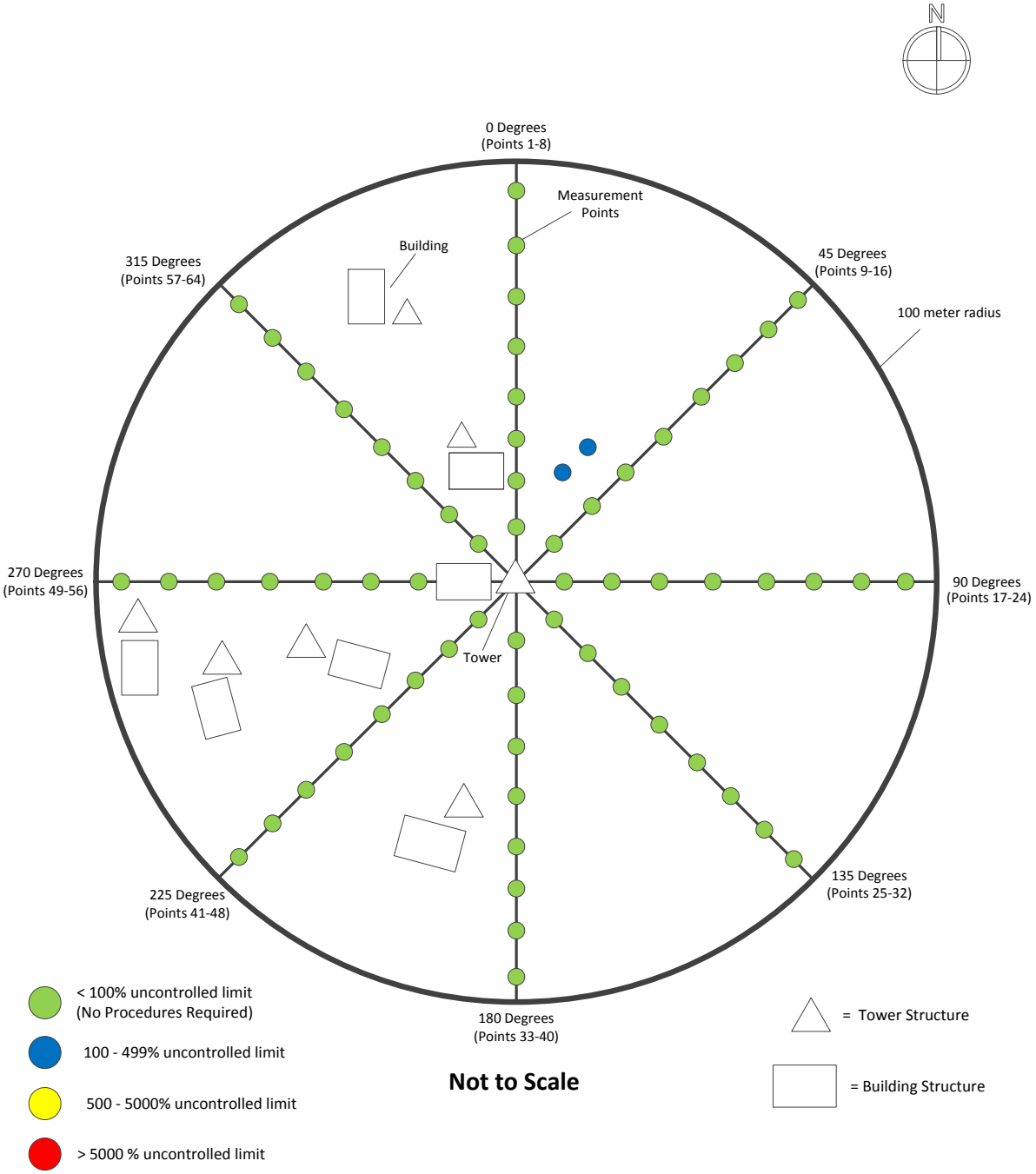
KVLB was confirmed to be operating at 100% ERP at the time of measurements. Measurement points were recorded along eight 100 meter walking radials, as well as throughout the accessible areas of the facility.

Most areas throughout the facility were measured to be below 100% of the uncontrolled limits of OET-65. One area north of the facility was measured to be 284.69% of the uncontrolled limit. This area is closed to the public and therefore falls under the worker (controlled) exposure limits. Educational Media Foundation has installed and will maintain proper signage to communicate the extent of the hazard.

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

Drawings

KVLB RF Exposure Measurement Area



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Measurement Points

General Public and Occupational RFR Measurements

Point	Total General Public RFR %	General Public RFR % at 90.5 MHz	Total Occupational RFR %	Occupational RFR % at 90.5 MHz
1	73.08	0.18	14.62	0.04
2	62.88	0.18	12.58	0.04
3	62.88	0.18	12.58	0.04
4	55.05	0.16	11.01	0.03
5	55.05	0.16	11.01	0.03
6	55.05	0.16	11.01	0.03
7	55.05	0.16	11.01	0.03
8	52.43	0.22	10.49	0.04
9	49.77	0.23	9.95	0.05
10	45.47	0.27	9.09	0.05
11	45.47	0.27	9.09	0.05
12	45.47	0.27	9.09	0.05
13	45.47	0.27	9.09	0.05
14	49.35	0.34	9.87	0.07
15	49.35	0.34	9.87	0.07
16	49.35	0.34	9.87	0.07
17	54.59	0.36	10.92	0.07
18	50.26	0.31	10.05	0.06
19	50.26	0.31	10.05	0.06
20	49.01	0.33	9.80	0.07
21	49.01	0.33	9.80	0.07
22	49.01	0.33	9.80	0.07
23	49.01	0.22	9.80	0.04
24	53.42	0.41	10.68	0.08
25	50.53	0.36	10.11	0.07
26	50.53	0.36	10.11	0.07
27	50.53	0.36	10.11	0.07
28	45.66	0.35	9.13	0.07
29	45.66	0.35	9.13	0.07
30	45.66	0.35	9.13	0.07
31	45.66	0.35	9.13	0.07
32	43.53	0.37	8.71	0.07

33	39.57	0.33	7.91	0.07
34	39.57	0.33	7.91	0.07
35	39.57	0.33	7.91	0.07
36	37.67	0.32	7.53	0.06
37	37.67	0.32	7.53	0.06
38	37.67	0.32	7.53	0.06
39	37.67	0.32	7.53	0.06
40	48.47	0.32	9.69	0.06
41	45.91	0.35	9.18	0.07
42	45.91	0.35	9.18	0.07
43	45.91	0.35	9.18	0.07
44	39.96	0.30	7.99	0.06
45	39.96	0.30	7.99	0.06
46	39.96	0.30	7.99	0.06
47	39.96	0.30	7.99	0.06
48	39.96	0.30	7.99	0.06
49	61.23	0.50	12.25	0.10
50	61.23	0.50	12.25	0.10
51	60.30	0.39	12.06	0.08
52	60.30	0.39	12.06	0.08
53	60.30	0.39	12.06	0.08
54	60.05	0.45	12.01	0.09
55	60.05	0.45	12.01	0.09
56	61.31	0.41	12.26	0.08
57	66.19	0.61	13.24	0.12
58	72.15	0.48	14.43	0.10
59	72.15	0.48	14.43	0.10
60	84.56	0.49	16.91	0.10
61	84.56	0.49	16.91	0.10
62	84.30	0.52	16.86	0.10
63	84.30	0.52	16.86	0.10
64	72.15	0.48	14.43	0.10
65	231.56	0.60	46.31	0.12
66	284.69	0.71	56.94	0.14