

Compliance with Special Operating Conditions

The KMKV-Aux Construction Permit (File Number BXPED-20171206ABB) contains Five Special Operating Conditions:

1. *THE AUTOMATIC PROGRAM TEST PROVISIONS OF 47 C.F.R. SECTION 73.1620 DO NOT APPLY IN THIS CASE. A FORMAL REQUEST FOR PROGRAM TEST AUTHORITY MUST BE FILED IN CONJUNCTION WITH FCC FORM 302-FM, APPLICATION FOR LICENSE, BEFORE PROGRAM TESTS WILL BE AUTHORIZED. This request must contain documentation which demonstrates compliance with the following special operating condition(s):*
2. *The permittee/licensee shall, upon completion of construction and during the equipment test period, 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. If necessary, a fence must be erected at such distances and in such a manner as to prevent the exposure of humans to RF fields in excess of the FCC Guidelines (OET Bulletin No. 65, Edition 97-01, August 1997). The fence must be a type which will preclude casual or inadvertent access, and must include signage at appropriate intervals which describe the nature of the hazard. Any areas within the fence found to exceed the recommended guidelines must be clearly marked with appropriate warning signs.*
3. *Documentation demonstrating compliance with the special operating condition(s) may be submitted in advance of the filing of FCC Form 302-FM, Application for License.*
4. *Program tests for KMKV(FS) (Facility ID No. 189544) will not commence on channel 264C0 with the facilities specified herein until program tests for KMKV(FM) (Facility ID No. 189544) commence on channel 264C0 with the facilities specified in BPED-20170811AAI and a license will not be granted for KMKV(FS) on channel 264C0 with the facilities specified herein until a license is granted for KMKV(FM) on channel 264C0 with the facilities specified in BPED-20170811AAI.*
5. *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.*

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

1. A formal request for test authority has been specified in the license application.
2. Radiofrequency electromagnetic (RF) field strength measurements have been taken throughout the transmitter site area to determine if there are any areas that exceed the FCC guidelines for human exposure to RF fields. The transmitter site is securely fenced on all sides with locked gates to prevent casual access. The RF Measurements are seen in Exhibit 1-A. Note the measurements show no areas to be over the limits for uncontrolled population. In the abundance of caution, RF Warning Signs have been installed at appropriate intervals to warn of the potential hazard of high RF Levels. Exhibit 1-B shows pictures of these signs mounted at the KMKV-Aux transmitter site.
3. Documentation demonstrating compliance with the special operating condition(s) is included in this Application for License.
4. The KMKV(FM) facilities specified in file number BPED-20170811AAI have been constructed and a license granted as seen in file number BLED- 20190917AAD.
5. 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.

Radiofrequency Electromagnetic Field Exposure Report

KMKV(Auxiliary) Kihei, HI

FIN: 189544

100.7 MHz

June 16, 2019

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Introduction

The permittee for the KMKV(Auxiliary) construction permit (file number BXPED-20171206ABB) is Educational Media Foundation. The Radio Frequency Exposure Study was completed on June 16th, 2019. Measurements were recorded at the facility using a Narda SRM 3000 instrument which properly analyzes and compensates for frequency dependent variables in the requirements of OET-65. Measurements were taken while slowly moving the instrument probe between approximately two and eight 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
- SN: N-0010
- Firmware: SRM-FW V1.5.6

Summary

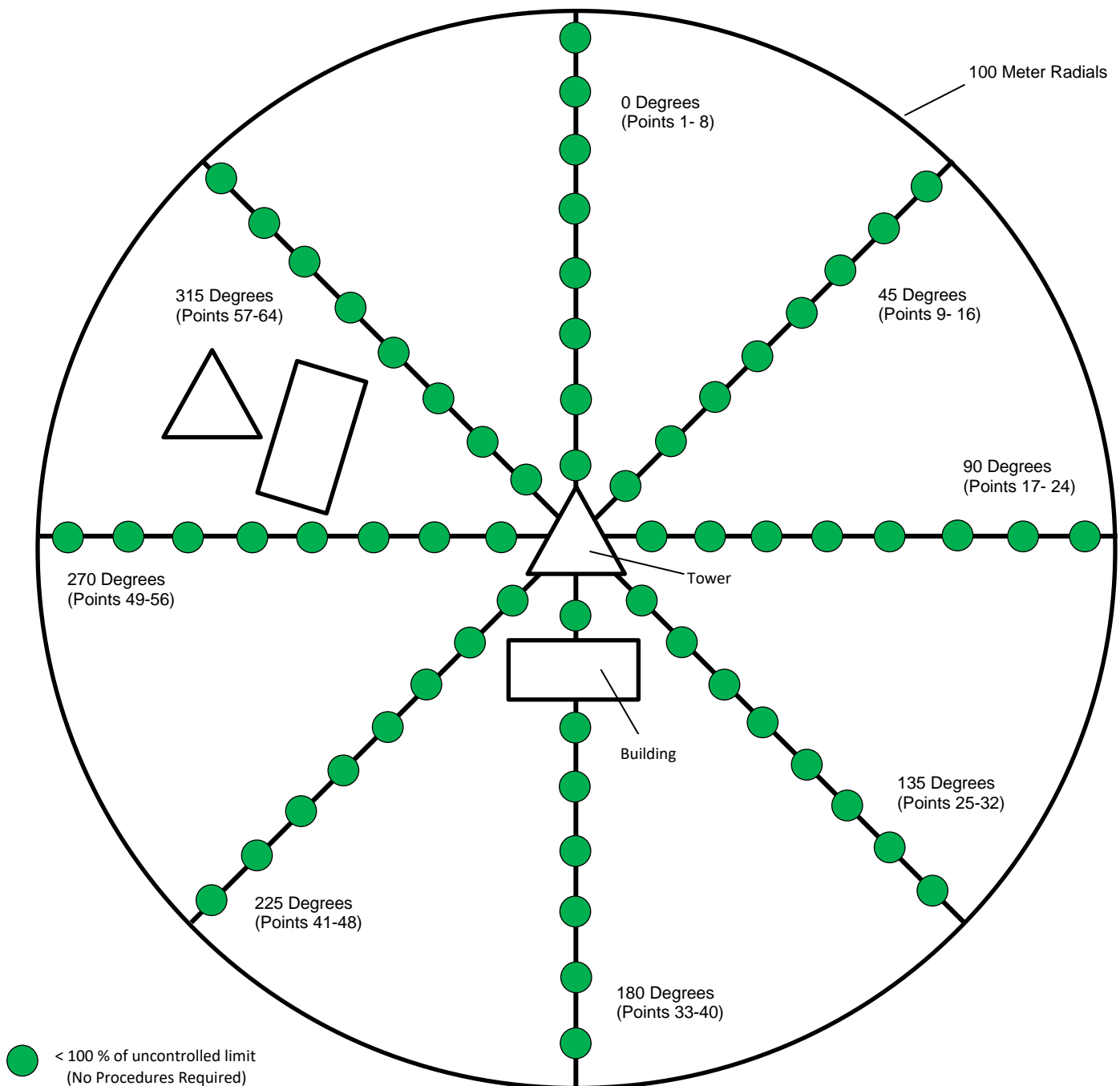
The KMKV(Auxiliary) transmissions were confirmed to be operating at 100% ERP prior to recording measurements. Measurement points were recorded along eight equally spaced radials as well as throughout the accessible areas of the facility.





All measurement points and areas throughout the KMKV (Auxiliary) facility were measured to be below 100% of the uncontrolled limits of OET-65. Therefore, the KMKV(Auxiliary) facility fully complies with the FCC's maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

Lastly, though the site will fully comply with the FCC's controlled and uncontrolled exposure limits, access to the site will be restricted and appropriately marked with signage. When it becomes necessary for workers to ascend the antenna structure, the permittee 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.

Drawings

KMKV(Auxiliary) RF Exposure Measurement Area



-  < 100 % of uncontrolled limit
(No Procedures Required)
-  100 – 499 % of uncontrolled limit
-  500 – 5000 % of uncontrolled limit
-  > 5000 % of uncontrolled limit

Not to Scale

Measurement Points

General Public and Occupational Exposure Measurement Points

Point	Total General Public %	General Public % 100.7 MHz	Total Occupational %	Occupational % 100.7 MHz
1	78.23	15.65	32.13	6.43
2	58.30	11.66	15.63	3.13
3	58.30	11.66	15.63	3.13
4	16.48	3.30	3.60	0.72
5	25.71	5.14	8.47	1.69
6	37.43	7.49	13.52	2.70
7	37.66	7.53	7.41	1.48
8	32.34	6.47	6.60	1.32
9	32.34	6.47	6.60	1.32
10	28.71	5.74	6.89	1.38
11	33.62	6.72	11.89	2.38
12	34.80	6.96	6.84	1.37
13	34.80	6.96	6.84	1.37
14	30.15	6.03	10.40	2.08
15	33.86	6.77	11.94	2.39
16	28.47	5.69	7.92	1.58
17	28.47	5.69	7.92	1.58
18	32.77	6.55	10.36	2.07
19	32.77	6.55	10.36	2.07
20	31.68	6.34	15.65	3.13
21	31.68	6.34	15.65	3.13
22	12.29	2.46	1.15	0.23
23	26.57	5.31	2.10	0.42
24	29.00	5.80	9.44	1.89
25	29.00	5.80	9.44	1.89
26	26.40	5.28	10.94	2.19
27	15.49	3.10	1.16	0.23
28	16.46	3.29	2.24	0.45
29	16.46	3.29	2.24	0.45
30	16.46	3.29	2.24	0.45
31	20.86	4.17	0.41	0.08
32	20.86	4.17	0.41	0.08
33	12.44	2.49	0.10	0.02
34	17.28	3.46	0.31	0.06

SWE Services, LLC

35	17.28	3.46	0.31	0.06
36	14.57	2.91	1.36	0.27
37	14.57	2.91	1.36	0.27
38	12.39	2.48	0.51	0.10
39	21.07	4.21	4.00	0.80
40	21.07	4.21	4.00	0.80
41	21.07	4.21	4.00	0.80
42	42.69	8.54	13.05	2.61
43	44.15	8.83	16.52	3.30
44	19.36	3.87	2.76	0.55
45	19.36	3.87	2.76	0.55
46	19.36	3.87	2.76	0.55
47	33.29	6.66	9.75	1.95
48	33.29	6.66	9.75	1.95
49	30.98	6.20	8.44	1.69
50	30.98	6.20	8.44	1.69
51	31.23	6.25	18.45	3.69
52	57.77	11.55	9.27	1.85
53	57.77	11.55	9.27	1.85
54	50.16	10.03	21.75	4.35
55	41.82	8.36	19.00	3.80
56	41.82	8.36	19.00	3.80
57	41.82	8.36	19.00	3.80
58	35.22	7.04	16.23	3.25
59	32.51	6.50	18.73	3.75
60	32.51	6.50	18.73	3.75
61	31.57	6.31	12.62	2.52
62	31.57	6.31	12.62	2.52
63	45.24	9.05	18.30	3.66
64	45.24	9.05	18.30	3.66



NOTICE



Radio frequency fields
beyond this point may
exceed the FCC general
public exposure limit.

Use all control eyes and all guidelines for
working in radio frequency environments.
FCC Part 15.107-15.109





Radio Frequency fields
beyond this point may
exceed the FCC general
public exposure limit.

Stay at least eight feet away from antennas for
receiving or transmitting radio frequency waves.
FCC Enforcement Order 4-10-12-000000

EXIT



NOTICE



Radio Frequency Fields
Exceed the FCC limit
Warning: The FCC limit
Warning: The FCC limit
Warning: The FCC limit

FOR INFO OR SITE RENTAL

 **MAIRA TOWERS**
of Australia
VIC: MICHAEL 970-669-6000
www.mairatowers.com
michael@mairatowers.com

CAUTION



Warning: Radio Frequency Fields
Exceed the FCC limit
Warning: The FCC limit
Warning: The FCC limit

NOTICE



Radio Frequency Fields
Exceed the FCC limit
Warning: The FCC limit
Warning: The FCC limit



NOTICE

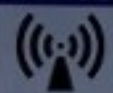


Radio Frequency fields
beyond this point may
exceed the FCC general
public exposure limit.

Users of mobile phones and other portable
radio frequency equipment should
avoid prolonged use in areas with
RF fields exceeding the FCC limit.




NOTICE



Radio Frequency Signals
transmitted from this tower may
interfere with the operation of
certain electronic equipment.



NOTICE



Radio Frequency fields
around this antenna may
exceed the FCC permitted
public exposure limit.