

Radiofrequency Electromagnetic Field Exposure Report

KLUU (Auxiliary) Wahiawa, HI

FIN: 164206

103.5 MHz

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Introduction

The permittee for the KLUU auxiliary construction permit (file number BXPED-20160205AEZ) is Educational Media Foundation. Stephen Wilde is an RF Engineer employed by Education Media Foundation. Stephen Wilde completed the RFR Study on January 20, 2017. RFR measurements were recorded at the facility 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
- Antenna Type: 3AX-50M-3G Serial # B-0057
- Firmware: SRM-FW V1.5.6

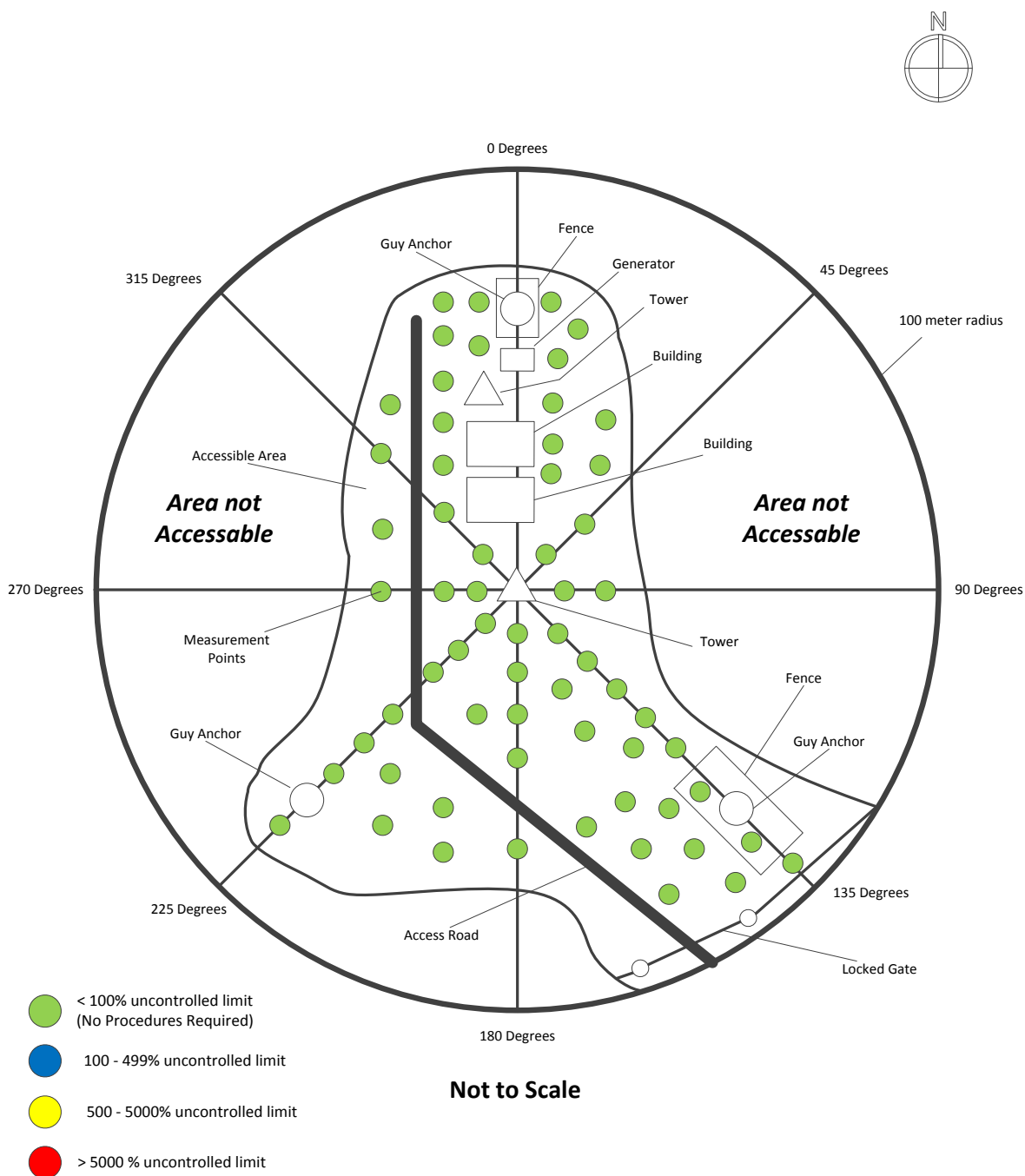
Summary

The KLUU auxiliary facility was confirmed to be operating at 100% ERP at the time of measurements. A total of 64 measurement points were recorded throughout the accessible areas of the facility.

No areas were measured to be over 100% of the uncontrolled limits of OET-65. Therefore, the KLUU auxiliary facility fully complies with the FCC's maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

Drawings

KLUU RFR Measurement Area



Measurements

General Public and Occupational RFR Measurements

Point	Total General Public RFR %	Total Occupational RFR %	General Public RFR % at 103.5 MHz	Occupational RFR % at 103.5 MHz
1	21.15	4.23	0.25	0.05
2	20.30	4.06	0.25	0.05
3	20.30	4.06	0.25	0.05
4	19.85	3.97	0.31	0.06
5	19.85	3.97	3.50	0.70
6	19.85	3.97	0.35	0.07
7	19.45	3.89	0.45	0.09
8	19.45	3.89	0.45	0.09
9	18.60	3.72	0.40	0.08
10	18.95	3.79	2.65	0.53
11	18.95	3.79	0.45	0.09
12	18.95	3.79	0.45	0.09
13	18.95	3.79	0.45	0.09
14	19.60	3.92	0.60	0.12
15	19.60	3.92	0.60	0.12
16	19.60	3.92	0.60	0.12
17	20.25	4.05	0.50	0.10
18	19.20	3.84	0.45	0.09
19	19.20	3.84	0.45	0.09
20	19.20	3.84	0.45	0.09
21	19.20	3.84	0.45	0.09
22	19.20	3.84	0.45	0.09
23	18.40	3.68	0.40	0.08
24	18.40	3.68	0.40	0.08
25	18.40	3.68	0.40	0.08
26	17.75	3.55	0.35	0.07
27	17.25	3.45	2.70	0.54
28	17.30	3.46	0.30	0.06
29	17.30	3.46	0.30	0.06
30	17.30	3.46	0.30	0.06

31	17.30	3.46	0.30	0.06
32	17.30	3.46	0.30	0.06
33	21.15	4.23	0.45	0.09
34	19.85	3.97	0.45	0.09
35	19.85	3.97	0.45	0.09
36	19.85	3.97	0.45	0.09
37	19.85	3.97	0.45	0.09
38	19.85	3.97	0.45	0.09
39	19.45	3.89	0.50	0.10
40	19.45	3.89	0.50	0.10
41	28.00	5.60	1.10	0.22
42	29.30	5.86	1.30	0.26
43	29.30	5.86	1.30	0.26
44	29.30	5.86	1.30	0.26
45	29.30	5.86	1.30	0.26
46	27.45	5.49	1.05	0.21
47	27.45	5.49	1.05	0.21
48	27.45	5.49	1.05	0.21
49	28.85	5.77	1.70	0.34
50	28.85	5.77	1.70	0.34
51	28.85	5.77	1.70	0.34
52	28.80	5.76	1.60	0.32
53	27.50	5.50	1.30	0.26
54	27.50	5.50	1.30	0.26
55	27.50	5.50	1.30	0.26
56	27.50	5.50	1.30	0.26
57	25.00	5.00	1.10	0.22
58	25.00	5.00	1.10	0.22
59	25.50	5.10	1.15	0.23
60	25.50	5.10	1.15	0.23
61	25.50	5.10	1.15	0.23
62	25.50	5.10	1.15	0.23
63	23.75	4.75	1.00	0.20
64	23.75	4.75	1.00	0.20