

# RFR Measurement Report

KCHQ Driggs, ID

FIN: 87925

102.1 MHz

October 28, 2014

Steve Wilde  
8024 Lesser Way  
Citrus Heights, CA 95621  
530-574-3474  
Steve@sweservices.net

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## Introduction

The objective of this project was to provide General Public (controlled) and Occupational (uncontrolled) RFR measurements adhering to the OET-65 requirements.

## Equipment

- Narda SRM-3000
- Calibration Date: 3/17/2014
- Antenna Type: 3AX-50M-3G
- Firmware: SRM-FW V1.5.6
- Measurement Method: Human body averaging, two pass, probe placed 90 degrees from the operator's body.

## Summary

On October 28, 2014 RFR measurements were recorded using a Narda SRM3000 instrument which properly analyzes and compensates for frequency depended variables in the requirements of OET-65.

KCHQ was confirmed to be operating at 100% ERP at the time of measurements. The site layout was documented prior to completing measurements. A total of eight 100 meter walking radials were used surrounding the KCHQ tower. Sixty-four measurement points were recorded, eight measurement points per radial. If the radial lengths were obstructed due to fences or terrain then eight equally spaced points were recorded between the KCHQ tower and the obstruction.

After thoroughly measuring eight radials and all accessible areas within the 100 meter radius, no areas were measured that exceed 100% of the uncontrolled (general public) exposure limits of OET-65. Therefore, KCHQ fully complies with the FCC's maximum permissible radiofrequency electromagnetic exposure limits for uncontrolled and controlled environments.

# DRAWINGS

Figure 1: Measurement Area

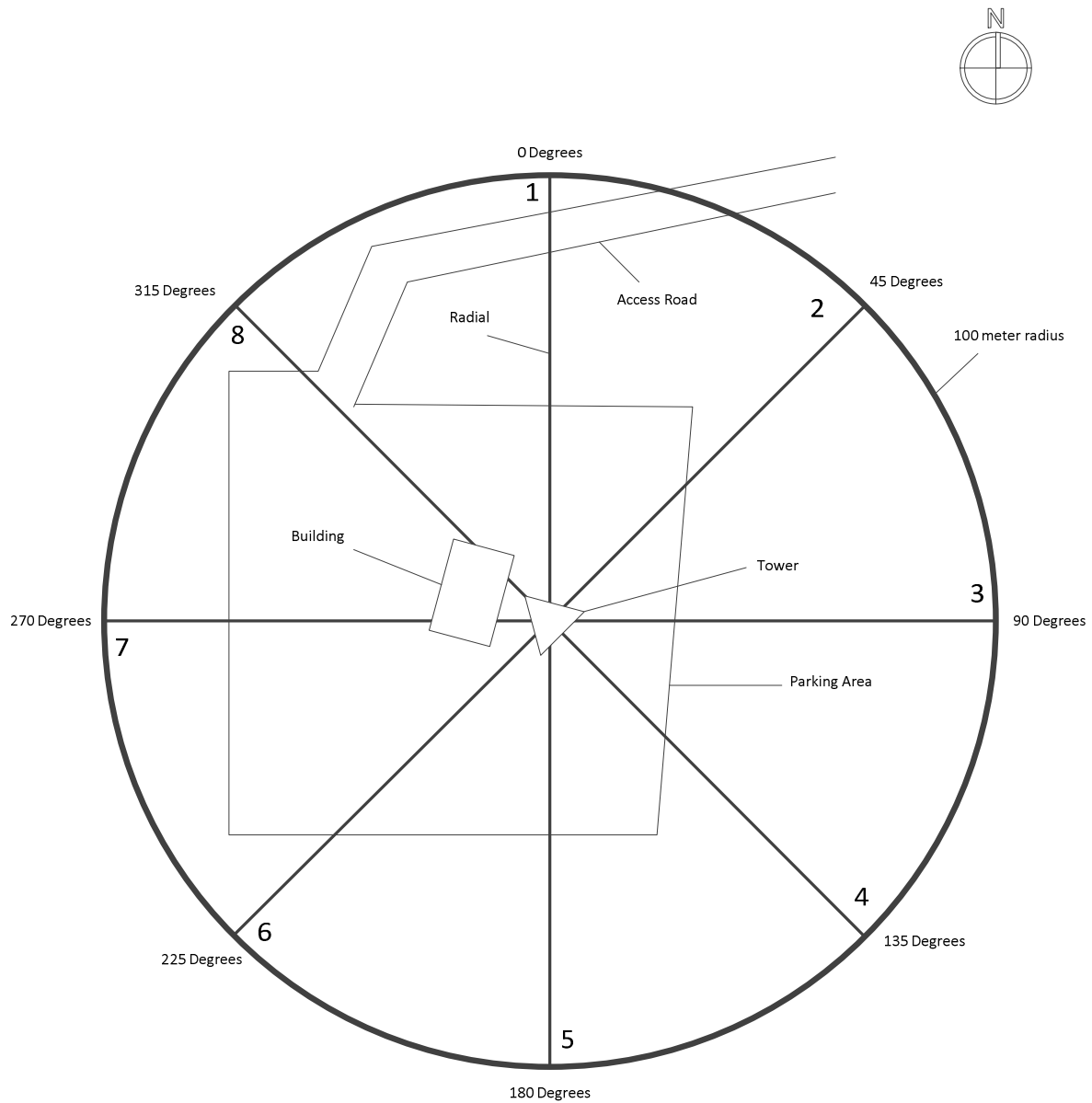
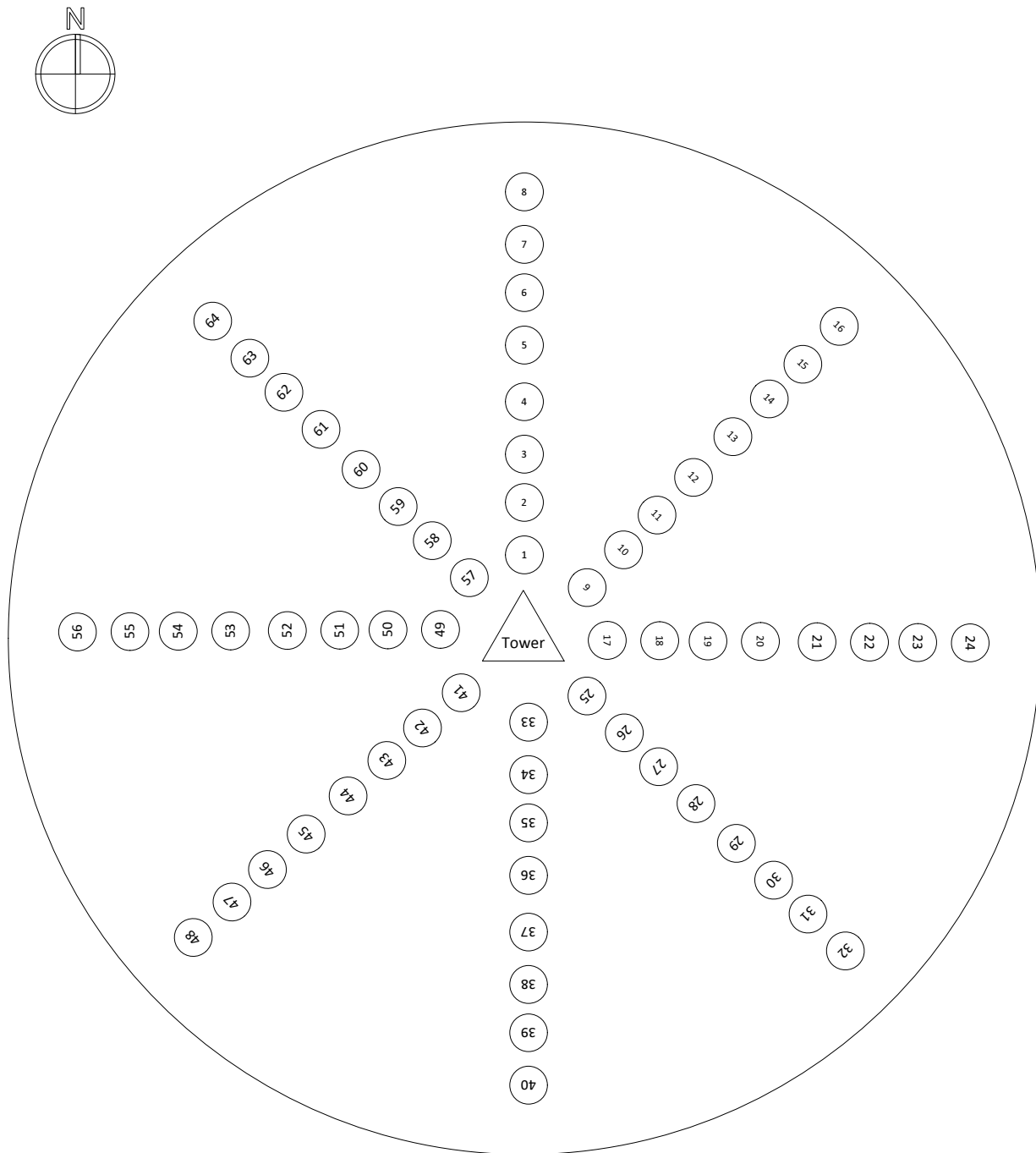


Figure 2: Walking Radials and Measurement Points



# MEASUREMENTS

## General Public and Occupational RFR Measurements

Point	Total General Public RFR %	Total Occupational RFR %	General Public RFR % at 102.1 MHz	Occupational RFR % at 102.1 MHz
1	<b>17.7</b>	3.54	0.8	0.16
2	<b>17.7</b>	3.54	0.8	0.16
3	<b>17.4</b>	3.48	3.0	0.60
4	<b>17.4</b>	3.48	3.0	0.60
5	<b>17.4</b>	3.48	3.0	0.60
6	<b>24.0</b>	4.80	4.1	0.82
7	<b>24.0</b>	4.80	4.1	0.82
8	<b>22.5</b>	4.50	3.0	0.60
9	<b>20.8</b>	4.16	2.6	0.52
10	<b>23.8</b>	4.76	2.6	0.52
11	<b>23.8</b>	4.76	2.6	0.52
12	<b>23.8</b>	4.76	2.6	0.52
13	<b>23.8</b>	4.76	2.6	0.52
14	<b>23.8</b>	4.76	2.6	0.52
15	<b>23.8</b>	4.76	2.6	0.52
16	<b>17.3</b>	3.46	1.5	0.30
17	<b>18.6</b>	3.72	1.8	0.36
18	<b>18.6</b>	3.72	1.8	0.36
19	<b>24.0</b>	4.80	11.2	2.24
20	<b>24.0</b>	4.80	11.2	2.24
21	<b>24.0</b>	4.80	11.2	2.24
22	<b>24.0</b>	4.80	11.2	2.24
23	<b>24.0</b>	4.80	11.2	2.24
24	<b>17.9</b>	3.58	5.8	1.16
25	<b>25.4</b>	5.08	11.6	2.32
26	<b>33.3</b>	6.66	17.3	3.46
27	<b>33.3</b>	6.66	17.3	3.46
28	<b>33.3</b>	6.66	17.3	3.46
29	<b>33.3</b>	6.66	17.3	3.46
30	<b>24.0</b>	4.80	11.1	2.22
31	<b>24.0</b>	4.80	11.1	2.22
32	<b>24.0</b>	4.80	11.1	2.22
33	<b>38.6</b>	7.72	2.06	0.41

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34	<b>50.7</b>	10.14	6.7	1.34
35	<b>48.7</b>	9.74	2.2	0.44
36	<b>31.9</b>	6.38	2.2	0.44
37	<b>20.6</b>	4.12	2.1	0.42
38	<b>26.8</b>	5.36	0.8	0.16
39	<b>26.8</b>	5.36	0.8	0.16
40	<b>26.8</b>	5.36	0.8	0.16
41	<b>65.4</b>	13.08	50.7	10.14
42	<b>65.4</b>	13.08	50.7	10.14
43	<b>65.4</b>	13.08	50.7	10.14
44	<b>63.0</b>	12.60	45.5	9.10
45	<b>63.0</b>	12.60	45.5	9.10
46	<b>63.0</b>	12.60	45.5	9.10
47	<b>63.0</b>	12.60	45.5	9.10
48	<b>65.0</b>	13.00	50.3	10.06
49	<b>63.0</b>	12.60	45.5	9.10
50	<b>20.8</b>	4.16	2.2	0.44
51	<b>20.8</b>	4.16	2.2	0.44
52	<b>20.8</b>	4.16	2.2	0.44
53	<b>20.8</b>	4.16	2.2	0.44
54	<b>20.8</b>	4.16	2.2	0.44
55	<b>65.4</b>	13.08	50.1	10.02
56	<b>63.0</b>	12.60	45.5	9.10
57	<b>18.8</b>	3.76	3.0	0.60
58	<b>18.8</b>	3.76	3.0	0.60
59	<b>18.8</b>	3.54	3.0	0.16
60	<b>20.8</b>	3.54	2.2	0.16
61	<b>20.8</b>	3.48	2.2	0.60
62	<b>20.8</b>	3.48	2.2	0.60
63	<b>20.8</b>	3.48	2.2	0.60
64	<b>20.8</b>	4.80	2.2	0.82