

RFR Measurement Report

K214DF Golden Valley, MN

FIN: 90816

90.7 MHz

February 6, 2015

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Introduction

The licensee for the K214DF Construction Permit is Educational Media Foundation. Steve Wilde is a Broadcast Engineer employed by Education Media Foundation. Steve Wilde completed the K214DF RFR Study on February 06, 2015. RFR measurements were recorded at the K214DF site 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

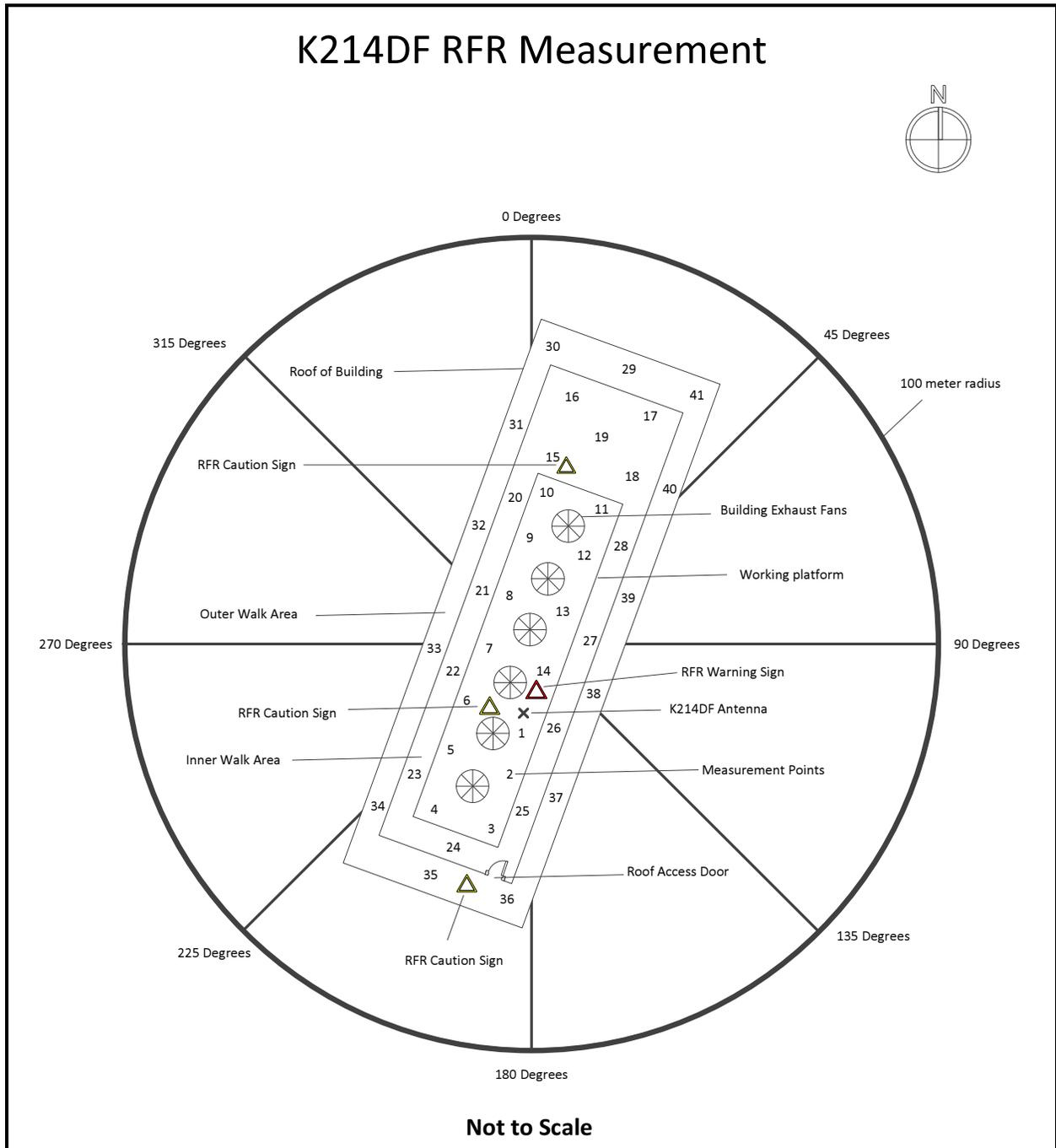
Summary

K214DF was confirmed to be operating at 100% ERP at the time of measurements. A total of 41 measurement points were recorded throughout the accessible areas of the facility's roof.

Areas were found that are over 100% of the uncontrolled limits of OET-65, but all are within areas that restrict access to the public, and therefore fall under the worker (controlled) exposure limits. Educational Media Foundation has installed and will maintain appropriate signage to prevent inadvertent access to areas that exceed the uncontrolled limits. Therefore, K214DF fully complies with the FCC's maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

Drawings

K214DF RFR Measurement Area



Measurements

General Public and Occupational RFR Measurements

Point	Total General Public RFR %	Total Occupational RFR %	General Public RFR % at 90.7 MHz	Occupational RFR % at 90.7 MHz
1	249.0	49.8	44.8	9.0
2	240.0	48.0	95.6	19.1
3	265.0	53.0	93.4	18.7
4	166.0	33.2	37.9	7.6
5	54.3	10.9	18.9	3.8
6	124.0	24.8	32.6	6.5
7	317.0	63.4	101.3	20.3
8	98.0	19.6	28.6	5.7
9	98.0	19.6	28.6	5.7
10	124.0	24.8	32.6	6.5
11	88.4	17.7	32.1	6.4
12	63.4	12.7	13.0	2.6
13	249.0	49.8	44.8	9.0
14	618.0	123.6	246.0	49.2
15	70.2	14.0	13.4	2.7
16	32.1	6.4	3.1	0.6
17	54.5	10.9	3.8	0.8
18	53.1	10.6	16.5	3.3
19	53.1	10.6	16.5	3.3
20	31.8	6.4	9.4	1.9
21	13.7	2.7	1.0	0.2
22	13.7	2.7	2.0	0.4
23	13.7	2.7	1.0	0.2
24	20.6	4.1	1.2	0.2
25	23.0	4.6	0.4	0.1
26	23.0	4.6	0.4	0.1
27	16.2	3.2	0.1	0.0
28	15.6	3.1	0.6	0.1
29	13.9	2.8	0.3	0.1
30	13.5	2.7	0.3	0.1
31	13.2	2.6	0.3	0.1
32	12.9	2.6	0.1	0.0

33	12.3	2.5	0.1	0.0
34	22.6	4.5	2.8	0.6
35	15.4	3.1	1.2	0.2
36	14.5	2.9	0.3	0.1
37	16.3	3.3	0.2	0.0
38	15.6	3.1	0.4	0.1
39	12.9	2.6	0.2	0.0
40	12.1	2.4	0.2	0.0
41	22.3	4.5	1.9	0.4

Photography

Working Platform RFR Caution Signage



- Caution signage located at the base of the K214DF antenna to prevent inadvertent access to the working platform that may exceed the uncontrolled limits of OET-65.

K214DF Antenna Location RFR Warning Signage



- Warning signage located at the base of the K214DF antenna to prevent inadvertent access to antenna mast that may exceed the uncontrolled limits of OET-65.