

# Radiofrequency Electromagnetic Field Exposure Report

KOLC (Auxiliary) Carson City, NV

FIN: 53706

97.3 MHz

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**TABLE OF CONTENTS**

Introduction ..... 3

Test Equipment ..... 3

Summary ..... 3

Drawings ..... 4

    KOLC RF Exposure Measurement Area ..... 4

Measurement Points ..... 5

    General Public and Occupational RFR Measurements ..... 5

## Introduction

The permittee for the KOLC Auxiliary construction permit (file number BXPB-20170605ABV) is Americom Limited Partnership. Per special operating condition #3, 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 RF engineer employed by SWE Services, LLC, completed the KOLC Auxiliary 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.

## Test Equipment

- Narda SRM-3000
- Antenna Type: 3AX-50M-3G

## Summary

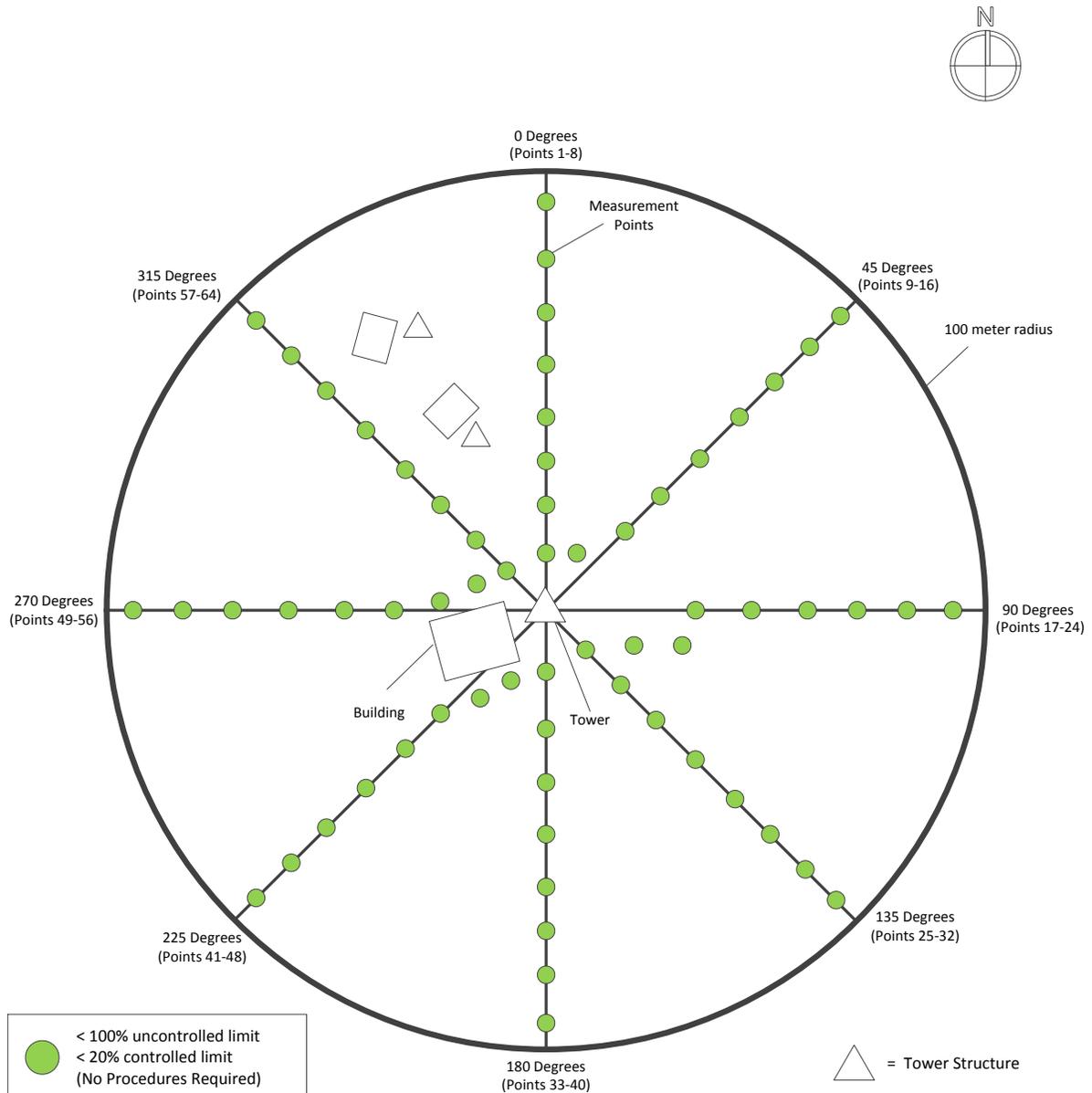
KOLC (Auxiliary) was confirmed to be operating at 100% ERP at the time of measurements. Measurement points were recorded along eight 100 meter walking radials, as well as throughout the accessible areas of the facility.

All areas throughout the facility were measured to be below 100% of the uncontrolled limits of OET-65.

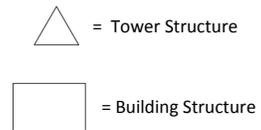
Therefore, KOLC (Auxiliary) fully complies with the FCC's maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

# Drawings

## KOLC (Aux) RF Exposure Measurement Area



	< 100% uncontrolled limit < 20% controlled limit (No Procedures Required)
	100 - 499% uncontrolled limit 20 - 99% controlled limit
	500 - 5000% uncontrolled limit 100 - 1000% controlled limit
	> 5000 % uncontrolled limit > 1000% controlled limit



# Measurement Points

## General Public and Occupational RFR Measurements

Point	Total General Public RFR %	General Public RFR % at 97.3 MHz	Total Occupational RFR %	Occupational RFR % at 97.3 MHz
<b>1</b>	9.94	0.38	1.99	0.08
<b>2</b>	10.13	0.56	2.03	0.11
<b>3</b>	10.13	0.56	2.03	0.11
<b>4</b>	10.13	0.56	2.03	0.11
<b>5</b>	12.65	4.06	2.53	0.81
<b>6</b>	12.65	4.06	2.53	0.81
<b>7</b>	20.28	10.71	4.06	2.14
<b>8</b>	13.01	3.06	2.60	0.61
<b>9</b>	10.88	2.32	2.18	0.46
<b>10</b>	10.88	2.32	2.18	0.46
<b>11</b>	10.56	0.50	2.11	0.10
<b>12</b>	10.77	0.33	2.15	0.07
<b>13</b>	10.77	0.33	2.15	0.07
<b>14</b>	11.44	0.36	2.29	0.07
<b>15</b>	11.44	0.36	2.29	0.07
<b>16</b>	10.39	0.50	2.08	0.10
<b>17</b>	12.31	0.04	2.46	0.01
<b>18</b>	12.31	0.04	2.46	0.01
<b>19</b>	12.31	0.04	2.46	0.01
<b>20</b>	12.31	0.04	2.46	0.01
<b>21</b>	11.45	0.37	2.29	0.07
<b>22</b>	11.45	0.37	2.29	0.07
<b>23</b>	11.45	0.37	2.29	0.07
<b>24</b>	11.45	0.37	2.29	0.07
<b>25</b>	11.25	1.68	2.25	0.34
<b>26</b>	10.00	0.68	2.00	0.14
<b>27</b>	10.00	0.68	2.00	0.14
<b>28</b>	10.00	0.68	2.00	0.14
<b>29</b>	10.00	0.68	2.00	0.14
<b>30</b>	10.42	1.56	2.08	0.31
<b>31</b>	10.42	1.56	2.08	0.31
<b>32</b>	10.42	1.56	2.08	0.31
<b>33</b>	9.98	0.66	2.00	0.13

**SWE Services, LLC**

<b>34</b>	9.98	0.66	2.00	0.13
<b>35</b>	9.16	0.51	1.83	0.10
<b>36</b>	9.16	0.51	1.83	0.10
<b>37</b>	9.16	0.51	1.83	0.10
<b>38</b>	10.22	2.48	2.04	0.50
<b>39</b>	10.22	2.48	2.04	0.50
<b>40</b>	7.85	0.05	1.57	0.01
<b>41</b>	9.12	1.20	1.82	0.24
<b>42</b>	9.12	1.20	1.82	0.24
<b>43</b>	8.02	0.29	1.60	0.06
<b>44</b>	8.02	0.29	1.60	0.06
<b>45</b>	8.02	0.29	1.60	0.06
<b>46</b>	8.02	0.29	1.60	0.06
<b>47</b>	8.01	0.48	1.60	0.10
<b>48</b>	9.01	1.23	1.80	0.25
<b>49</b>	9.01	1.23	1.80	0.25
<b>50</b>	12.74	4.91	2.55	0.98
<b>51</b>	12.74	4.91	2.55	0.98
<b>52</b>	12.74	4.91	2.55	0.98
<b>53</b>	12.74	4.91	2.55	0.98
<b>54</b>	16.60	8.97	3.32	1.79
<b>55</b>	16.60	8.97	3.32	1.79
<b>56</b>	9.65	1.69	1.93	0.34
<b>57</b>	9.65	1.69	1.93	0.34
<b>58</b>	9.65	1.69	1.93	0.34
<b>59</b>	9.12	0.48	1.82	0.10
<b>60</b>	9.12	0.48	1.82	0.10
<b>61</b>	9.12	0.48	1.82	0.10
<b>62</b>	9.12	0.48	1.82	0.10
<b>63</b>	16.25	8.49	3.25	1.70
<b>64</b>	16.25	8.49	3.25	1.70