

# Radiofrequency Electromagnetic Field Exposure Report

KNCQ Weaverville, CA

FIN: 40828

97.3 MHz

August 16, 2019

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## **Introduction**

The permittee for the KNCQ construction permit (file number BPH-20140828ACE) is Results Radio of Redding Licensee, LLC. The Radio Frequency Exposure Study was completed on August 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**

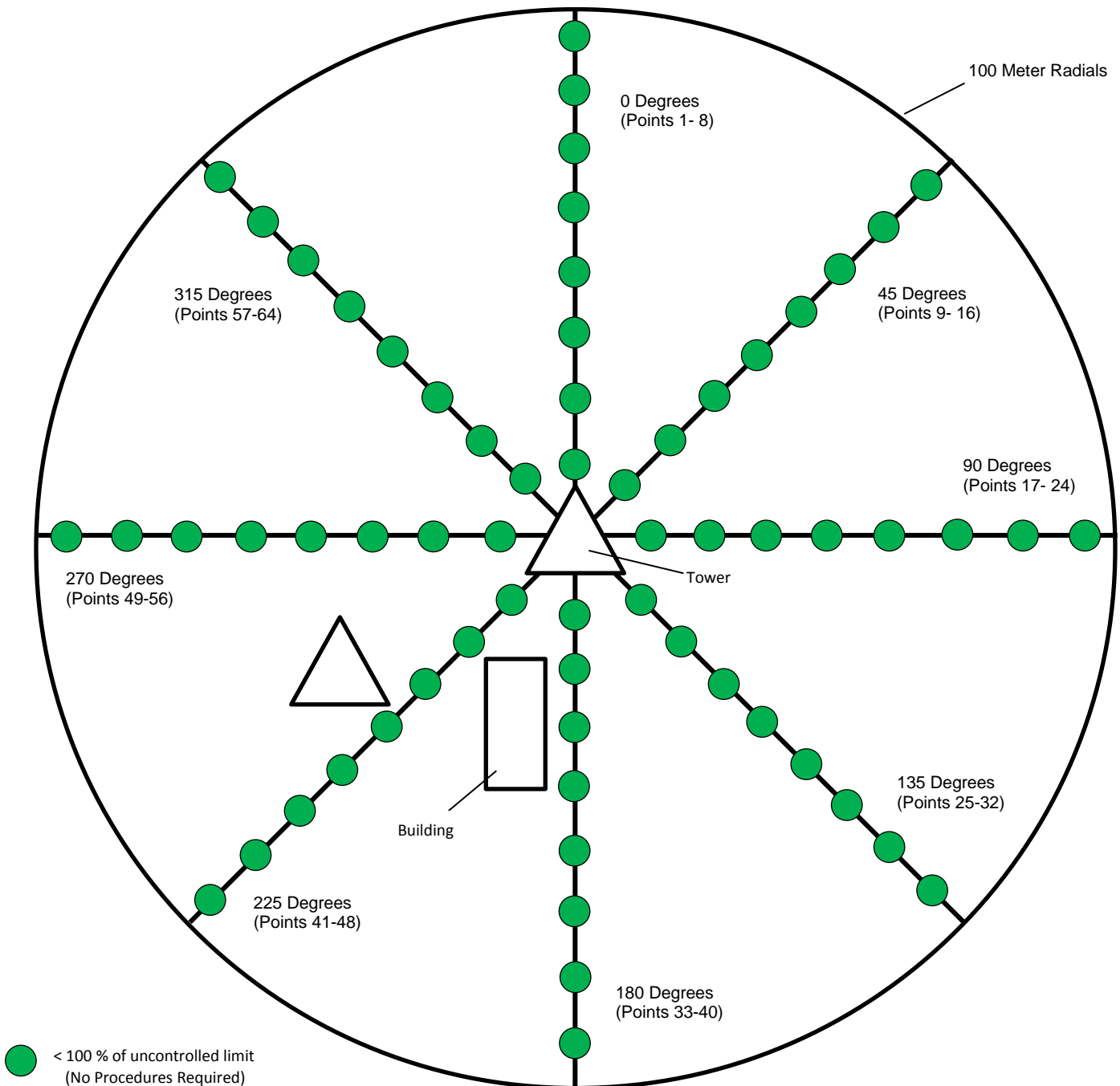
The KNCQ transmissions were confirmed to be operating at 100% ERP prior to recording measurements. Measurement points were recorded along eight equally spaced radials as well as throughout the accessible areas of the facility.

All measurement points and areas throughout the KNCQ facility were measured to be below 100% of the uncontrolled limits of OET-65. Therefore, the KNCQ 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

## KNCQ RF Exposure Measurement Area



Not to Scale

# Measurement Points

## General Public and Occupational Exposure Measurement Points

| Point     | Total General Public % | General Public % 97.3 MHz | Total Occupational % | Occupational % 97.3 MHz |
|-----------|------------------------|---------------------------|----------------------|-------------------------|
| <b>1</b>  | 14.67                  | 2.93                      | 6.19                 | 1.24                    |
| <b>2</b>  | 10.26                  | 2.05                      | 1.50                 | 0.30                    |
| <b>3</b>  | 21.78                  | 4.36                      | 8.13                 | 1.63                    |
| <b>4</b>  | 21.78                  | 4.36                      | 8.13                 | 1.63                    |
| <b>5</b>  | 21.78                  | 4.36                      | 8.13                 | 1.63                    |
| <b>6</b>  | 35.31                  | 7.06                      | 24.08                | 4.82                    |
| <b>7</b>  | 20.97                  | 4.19                      | 10.39                | 2.08                    |
| <b>8</b>  | 20.97                  | 4.19                      | 10.39                | 2.08                    |
| <b>9</b>  | 14.63                  | 2.93                      | 3.96                 | 0.79                    |
| <b>10</b> | 16.41                  | 3.28                      | 3.25                 | 0.65                    |
| <b>11</b> | 53.64                  | 10.73                     | 44.42                | 8.88                    |
| <b>12</b> | 77.89                  | 15.58                     | 68.64                | 13.73                   |
| <b>13</b> | 76.21                  | 15.24                     | 66.07                | 13.21                   |
| <b>14</b> | 81.71                  | 16.34                     | 71.45                | 14.29                   |
| <b>15</b> | 68.07                  | 13.61                     | 57.32                | 11.46                   |
| <b>16</b> | 82.33                  | 16.47                     | 71.73                | 14.35                   |
| <b>17</b> | 18.81                  | 3.76                      | 9.01                 | 1.80                    |
| <b>18</b> | 18.81                  | 3.76                      | 9.01                 | 1.80                    |
| <b>19</b> | 12.73                  | 2.55                      | 3.42                 | 0.68                    |
| <b>20</b> | 24.13                  | 4.83                      | 13.92                | 2.78                    |
| <b>21</b> | 24.13                  | 4.83                      | 13.92                | 2.78                    |
| <b>22</b> | 13.54                  | 2.71                      | 3.63                 | 0.73                    |
| <b>23</b> | 18.13                  | 3.63                      | 7.07                 | 1.41                    |
| <b>24</b> | 18.13                  | 3.63                      | 7.07                 | 1.41                    |
| <b>25</b> | 13.41                  | 2.68                      | 4.30                 | 0.86                    |
| <b>26</b> | 13.41                  | 2.68                      | 4.30                 | 0.86                    |
| <b>27</b> | 13.41                  | 2.68                      | 4.30                 | 0.86                    |
| <b>28</b> | 13.41                  | 2.68                      | 4.30                 | 0.86                    |
| <b>29</b> | 32.08                  | 6.42                      | 22.59                | 4.52                    |
| <b>30</b> | 32.08                  | 6.42                      | 22.59                | 4.52                    |
| <b>31</b> | 85.51                  | 17.10                     | 75.47                | 15.09                   |
| <b>32</b> | 68.84                  | 13.77                     | 56.90                | 11.38                   |
| <b>33</b> | 68.84                  | 13.77                     | 56.90                | 11.38                   |
| <b>34</b> | 73.98                  | 14.80                     | 61.69                | 12.34                   |

**SWE Services, LLC**

|           |       |       |       |       |
|-----------|-------|-------|-------|-------|
| <b>35</b> | 59.64 | 11.93 | 49.90 | 9.98  |
| <b>36</b> | 55.71 | 11.14 | 46.10 | 9.22  |
| <b>37</b> | 55.71 | 11.14 | 46.10 | 9.22  |
| <b>38</b> | 66.31 | 13.26 | 57.22 | 11.44 |
| <b>39</b> | 73.59 | 14.72 | 65.01 | 13.00 |
| <b>40</b> | 73.59 | 14.72 | 65.01 | 13.00 |
| <b>41</b> | 70.13 | 14.03 | 61.21 | 12.24 |
| <b>42</b> | 30.26 | 6.05  | 23.63 | 4.73  |
| <b>43</b> | 41.23 | 8.25  | 32.33 | 6.47  |
| <b>44</b> | 31.55 | 6.31  | 25.66 | 5.13  |
| <b>45</b> | 35.33 | 7.07  | 29.56 | 5.91  |
| <b>46</b> | 21.59 | 4.32  | 37.56 | 7.51  |
| <b>47</b> | 28.55 | 5.71  | 38.66 | 7.73  |
| <b>48</b> | 27.64 | 5.53  | 38.66 | 7.73  |
| <b>49</b> | 21.23 | 4.25  | 32.22 | 6.44  |
| <b>50</b> | 19.78 | 3.96  | 32.22 | 6.44  |
| <b>51</b> | 20.47 | 4.09  | 13.55 | 2.71  |
| <b>52</b> | 20.47 | 4.09  | 13.55 | 2.71  |
| <b>53</b> | 21.11 | 4.22  | 18.69 | 3.74  |
| <b>54</b> | 24.31 | 4.86  | 19.50 | 3.90  |
| <b>55</b> | 24.31 | 4.86  | 19.50 | 3.90  |
| <b>56</b> | 28.45 | 5.69  | 20.11 | 4.02  |
| <b>57</b> | 29.31 | 5.86  | 20.85 | 4.17  |
| <b>58</b> | 19.38 | 3.88  | 14.55 | 2.91  |
| <b>59</b> | 19.38 | 3.88  | 14.22 | 2.84  |
| <b>60</b> | 18.55 | 3.71  | 13.53 | 2.71  |
| <b>61</b> | 18.55 | 3.71  | 13.53 | 2.71  |
| <b>62</b> | 19.10 | 3.82  | 14.00 | 2.80  |
| <b>63</b> | 17.56 | 3.51  | 12.33 | 2.47  |
| <b>64</b> | 17.40 | 3.48  | 12.21 | 2.44  |