

# Radiofrequency Electromagnetic Field Exposure Report

KNIX (Auxiliary) Phoenix, AZ

FIN: 7698

102.5 MHz

January 24, 2024

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## Introduction

The permittee for the KNIX-AUX construction permit (file number 0000134016) is IHM Licenses, LLC. The Radiofrequency Exposure Study was completed on January 24th, 2024. 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 KNIX-AUX 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 measurements recorded at the 102.5 MHz frequency were measured to be below 100% of the uncontrolled limits of OET-65.

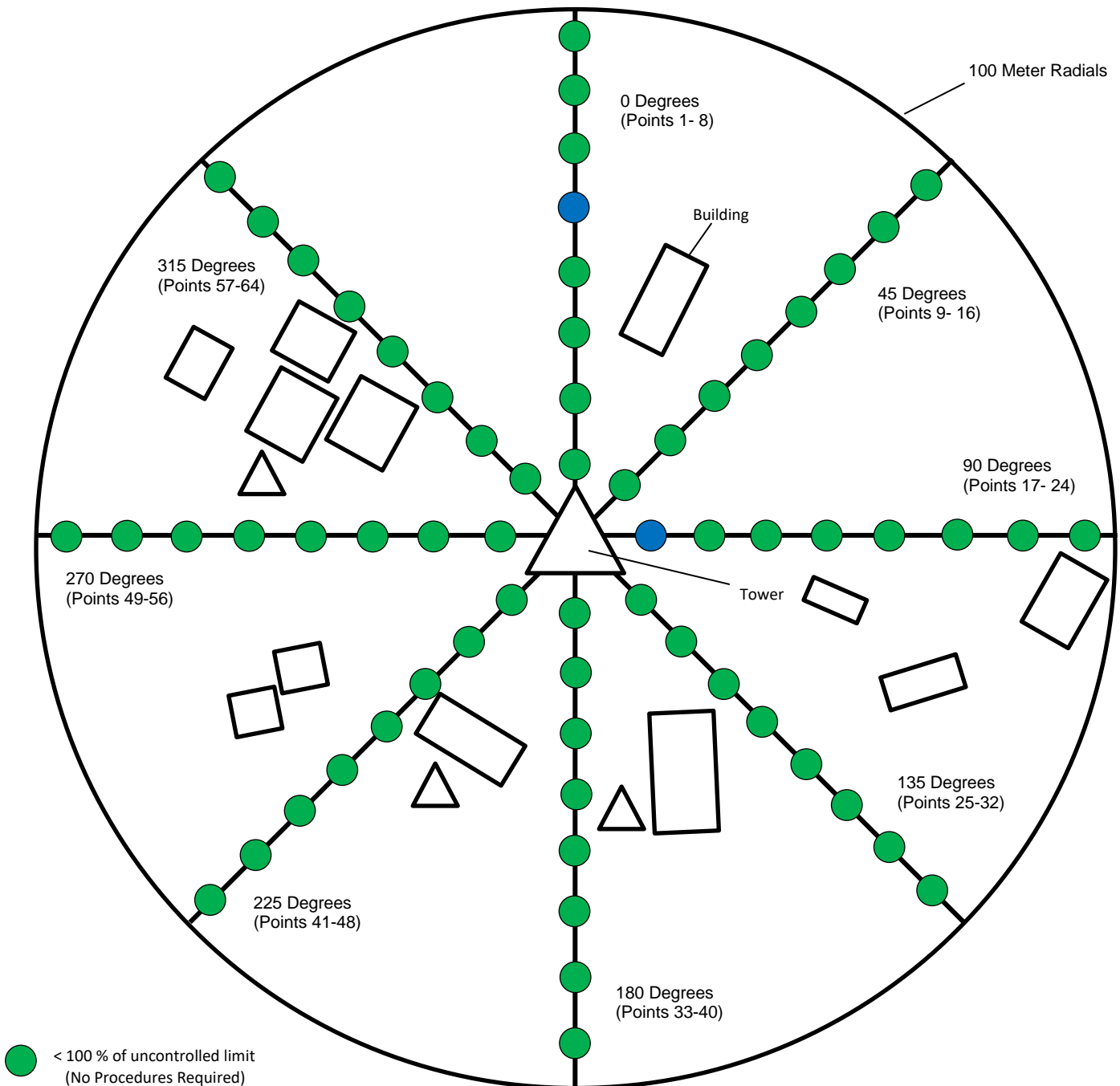
The highest overall (wideband) measurement recorded throughout the 100 meter radial area was 135.32 % of the public (uncontrolled) exposure limits of OET-65. The permittee has ensured access to this area is restricted from the public. Therefore, the facility will use the worker (controlled) exposure limits of OET-65. The highest overall (wideband) controlled measurement recorded throughout the 100 meter radial area was 27.06 % of the worker (controlled) exposure limits of OET-65. The permittee has installed and will maintain appropriate signage throughout the areas of the facility.

Therefore, the KNIX-AUX 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

## RF Exposure Measurement Area



# Measurement Points

## General Public and Occupational Exposure Measurement Points

Point	Total General Public %	General Public % 102.5 MHz	Total Occupational %	Occupational % 102.5 MHz
<b>1</b>	24.78	4.49	4.96	0.90
<b>2</b>	51.51	5.06	10.30	1.01
<b>3</b>	31.83	5.76	6.37	1.15
<b>4</b>	24.08	2.78	4.82	0.56
<b>5</b>	134.16	24.78	26.83	4.96
<b>6</b>	87.90	13.72	17.58	2.74
<b>7</b>	75.45	16.66	15.09	3.33
<b>8</b>	22.92	3.98	4.58	0.80
<b>9</b>	32.67	5.17	6.53	1.03
<b>10</b>	30.97	5.63	6.19	1.13
<b>11</b>	45.62	6.99	9.12	1.40
<b>12</b>	36.93	6.19	7.39	1.24
<b>13</b>	31.29	7.93	6.26	1.59
<b>14</b>	45.48	5.11	9.10	1.02
<b>15</b>	78.15	5.44	15.63	1.09
<b>16</b>	64.14	16.00	12.83	3.20
<b>17</b>	135.32	26.29	27.06	5.26
<b>18</b>	43.59	12.55	8.72	2.51
<b>19</b>	40.46	5.02	8.09	1.00
<b>20</b>	37.10	4.77	7.42	0.95
<b>21</b>	48.53	9.21	9.71	1.84
<b>22</b>	59.15	8.58	11.83	1.72
<b>23</b>	53.60	3.24	10.72	0.65
<b>24</b>	39.69	3.89	7.94	0.78
<b>25</b>	38.09	3.85	7.62	0.77
<b>26</b>	67.44	17.61	13.49	3.52
<b>27</b>	40.50	6.03	8.10	1.21
<b>28</b>	36.17	3.44	7.23	0.69
<b>29</b>	38.12	7.04	7.62	1.41
<b>30</b>	32.26	5.38	6.45	1.08
<b>31</b>	50.58	7.95	10.12	1.59
<b>32</b>	37.65	6.92	7.53	1.38
<b>33</b>	31.25	4.03	6.25	0.81
<b>34</b>	42.85	7.28	8.57	1.46

**SWE Services, LLC**

<b>35</b>	38.68	6.31	7.74	1.26
<b>36</b>	26.68	4.13	5.34	0.83
<b>37</b>	25.87	3.58	5.17	0.72
<b>38</b>	52.44	14.05	10.49	2.81
<b>39</b>	31.04	7.02	6.21	1.40
<b>40</b>	21.46	4.48	4.29	0.90
<b>41</b>	29.75	3.88	5.95	0.78
<b>42</b>	39.19	11.07	7.84	2.21
<b>43</b>	22.16	4.31	4.43	0.86
<b>44</b>	24.29	5.15	4.86	1.03
<b>45</b>	36.78	8.51	7.36	1.70
<b>46</b>	31.44	4.18	6.29	0.84
<b>47</b>	61.94	4.09	12.39	0.82
<b>48</b>	53.42	7.49	10.68	1.50
<b>49</b>	43.94	6.71	8.79	1.34
<b>50</b>	45.96	5.98	9.19	1.20
<b>51</b>	27.92	1.96	5.58	0.39
<b>52</b>	31.67	5.44	6.33	1.09
<b>53</b>	34.68	10.79	6.94	2.16
<b>54</b>	72.89	19.73	14.58	3.95
<b>55</b>	81.07	11.61	16.21	2.32
<b>56</b>	85.65	5.94	17.13	1.19
<b>57</b>	58.88	8.22	11.78	1.64
<b>58</b>	72.36	14.43	14.47	2.89
<b>59</b>	38.30	5.73	7.66	1.15
<b>60</b>	32.33	6.30	6.47	1.26
<b>61</b>	43.29	7.57	8.66	1.51
<b>62</b>	36.10	3.81	7.22	0.76
<b>63</b>	46.98	6.39	9.40	1.28
<b>64</b>	58.99	6.89	11.80	1.38