

# Radiofrequency Electromagnetic Field Exposure Measurements

KKSE Auxiliary Broomfield, CO

FIN: 59972

92.5 MHz

June 30, 2023

## **TABLE OF CONTENTS**

Introduction .....	3
Equipment .....	3
Summary .....	3
Drawings .....	4
RF Exposure Measurement Area .....	4
Measurement Points .....	5
General Public and Occupational Exposure Measurement Points .....	5

## **Introduction**

The permittee for the KKSE Auxiliary construction permit (file number 0000214181) is KSE Radio Venture, LLC. The Radiofrequency Exposure Study was completed on June 30th, 2023. 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**

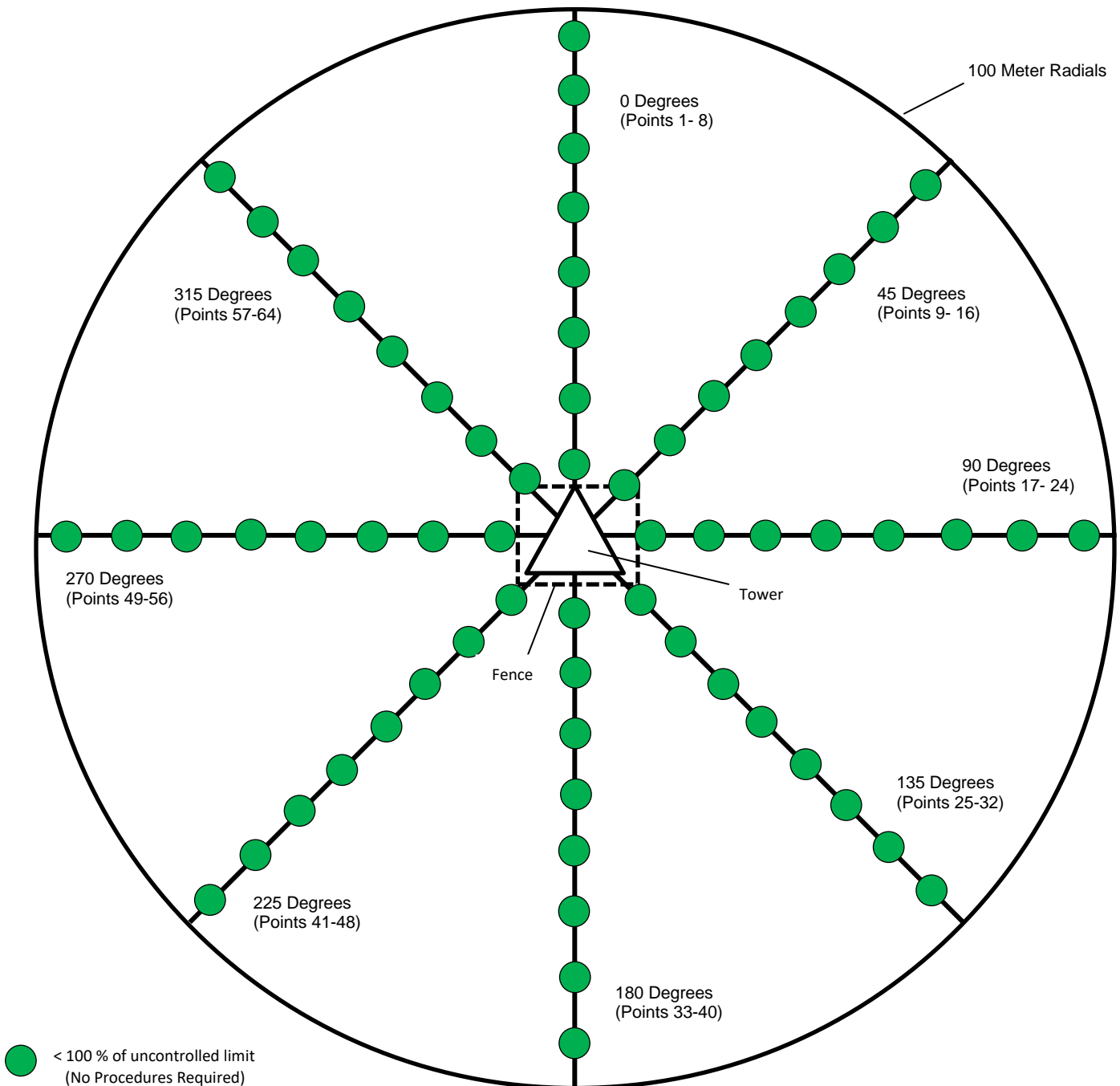
The KKSE Auxiliary transmissions were confirmed to be operating at 100% ERP prior to recording measurements. Measurement points were recorded along eight equally spaced radials as well as throughout the accessible areas of the facility.





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



-  < 100 % of uncontrolled limit  
(No Procedures Required)
-  100 – 499 % of uncontrolled limit
-  500 – 5000 % of uncontrolled limit
-  > 5000 % of uncontrolled limit

# Measurement Points

## General Public and Occupational Exposure Measurement Points

Point	Total General Public %	General Public % 92.5 MHz	Total Occupational %	Occupational % 92.5 MHz
<b>1</b>	16.32	0.61	3.26	0.12
<b>2</b>	29.22	0.51	5.84	0.10
<b>3</b>	61.64	1.50	12.33	0.30
<b>4</b>	15.77	4.85	3.15	0.97
<b>5</b>	18.88	0.97	3.78	0.19
<b>6</b>	9.43	0.47	1.89	0.09
<b>7</b>	50.82	2.22	10.16	0.44
<b>8</b>	20.78	0.27	4.16	0.05
<b>9</b>	58.51	0.44	11.70	0.09
<b>10</b>	77.80	2.39	15.56	1.08
<b>11</b>	72.50	2.70	14.50	1.94
<b>12</b>	39.95	5.92	7.99	1.18
<b>13</b>	17.39	0.94	3.48	0.19
<b>14</b>	9.79	0.74	1.96	0.15
<b>15</b>	27.03	1.61	5.41	0.32
<b>16</b>	13.12	0.25	2.62	0.05
<b>17</b>	41.24	0.66	8.25	0.13
<b>18</b>	49.09	1.43	9.82	0.29
<b>19</b>	26.81	2.16	5.36	0.43
<b>20</b>	21.01	1.38	4.20	0.28
<b>21</b>	32.14	1.79	6.43	0.36
<b>22</b>	20.90	0.99	4.18	0.20
<b>23</b>	18.40	2.12	3.68	0.42
<b>24</b>	9.63	0.12	1.93	0.02
<b>25</b>	28.55	0.46	5.71	0.09
<b>26</b>	28.55	0.46	5.71	0.09
<b>27</b>	25.58	0.75	5.12	0.15
<b>28</b>	16.38	0.73	3.28	0.15
<b>29</b>	15.99	1.45	3.20	0.29
<b>30</b>	18.59	0.26	3.72	0.05
<b>31</b>	16.44	0.16	3.29	0.03
<b>32</b>	13.58	0.30	2.72	0.06
<b>33</b>	27.94	0.39	5.59	0.08
<b>34</b>	33.36	0.35	6.67	0.07

**SWE Services, LLC**

<b>35</b>	12.26	0.20	2.45	0.04
<b>36</b>	10.83	0.31	2.17	0.06
<b>37</b>	13.16	0.40	2.63	0.08
<b>38</b>	21.56	0.62	4.31	0.12
<b>39</b>	8.70	0.32	1.74	0.06
<b>40</b>	9.65	0.34	1.93	0.07
<b>41</b>	13.16	0.62	2.63	0.12
<b>42</b>	15.16	0.32	3.03	0.06
<b>43</b>	11.07	0.36	2.21	0.07
<b>44</b>	18.50	0.37	3.70	0.07
<b>45</b>	12.55	0.49	2.51	0.10
<b>46</b>	10.59	0.34	2.12	0.07
<b>47</b>	12.97	0.60	2.59	0.12
<b>48</b>	12.21	1.11	2.44	0.22
<b>49</b>	17.60	1.27	3.52	0.25
<b>50</b>	9.58	0.39	1.92	0.08
<b>51</b>	13.11	0.75	2.62	0.15
<b>52</b>	17.71	0.98	3.54	0.20
<b>53</b>	16.12	0.64	3.22	0.13
<b>54</b>	13.21	0.41	2.64	0.08
<b>55</b>	12.46	0.85	2.49	0.17
<b>56</b>	15.66	0.37	3.13	0.07
<b>57</b>	38.93	1.70	7.79	0.34
<b>58</b>	68.48	2.59	13.70	0.52
<b>59</b>	20.82	1.69	4.16	0.34
<b>60</b>	19.12	0.47	3.82	0.09
<b>61</b>	10.29	0.56	2.06	0.11
<b>62</b>	9.38	0.24	1.88	0.05
<b>63</b>	9.85	0.15	1.97	0.03
<b>64</b>	12.80	0.20	2.56	0.04