



# **Radiofrequency Electromagnetic Field Exposure Report**

**WJTG FORT VALLEY, GA**

**FIN: 32358**

**91.9 MHZ**

**4.15.2020**

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### **Purpose:**

The applicant for this construction permit (BPED-20190910AFF) for WJTG is Family Life Broadcasting INC. The RFR study was performed on the 10<sup>th</sup> of April 2020. The measurements were recorded at this site using a NARD - NBM – 550 – S which was designed and calibrated to properly analyze and compensate for frequency dependent variables in the requirements of OET – 65. The measurements were taken slowly moving the probe between 2 and 8 feet vertically above the ground. Also, horizontal side to side measurements were taken between the measuring points. Higher than average measurement points were further investigated by the engineer to determine the extent of the area.

### **Equipment Used:**

NARDA NARD – NBM – 550 – S

S/N : H – 1040

FIRMWARE : V3.0.1

CALIBRATION EXPIRATION DATE: 11.21.2021

### **Findings:**

The WJTG facility was confirmed to be operational at 100% ERP prior to recording measurements.

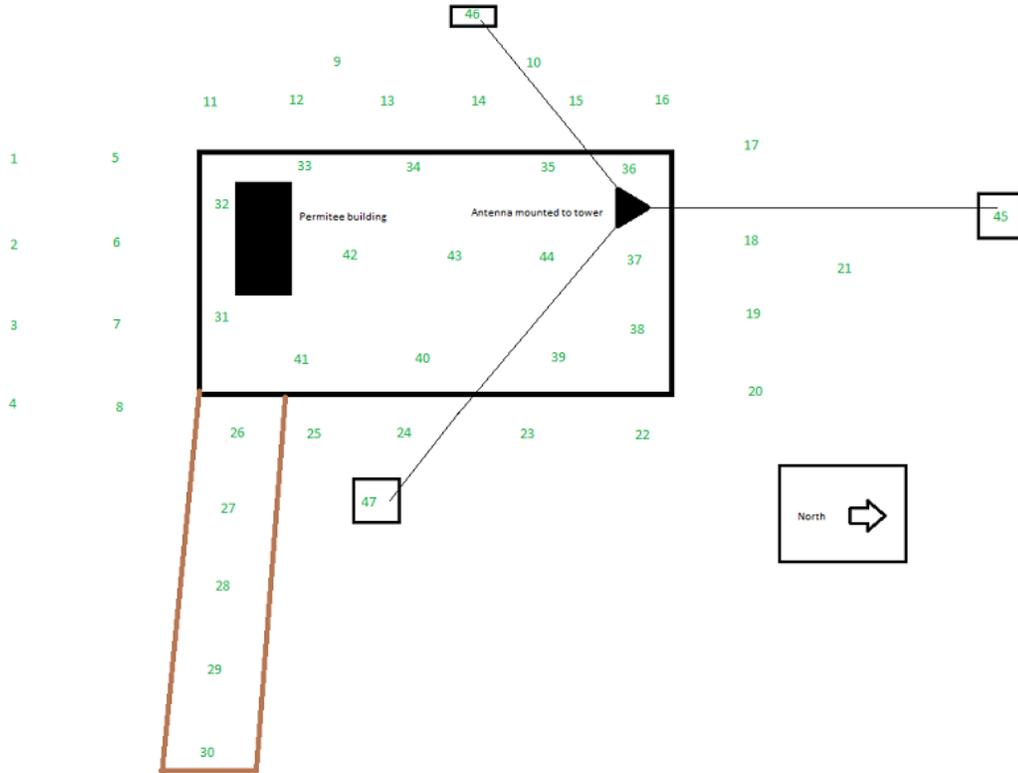
Measurement points were recorded throughout the accessible areas of the compound. As well as inside the building.

All measurements points and areas throughout the WJGT were measured bellow 100% of the noncontrolled limits of OET-65. Therefore, the WJGT facility fully complies with the FCC's maximum permissible radiofrequency electromagnetic exposure limits for controlled and uncontrolled environments.

Finally, 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:

### WJGT RF Exposure Measurement Area



Green numbers = < 100% of uncontrolled limit.

Yellow numbers = 100 – 499 % uncontrolled limit.

Red numbers = 500-500 % uncontrolled limit.

**Measurement Points:**

<b><u>Point</u></b>	<b><u>Total general public exposure %</u></b>	<b><u>Total occupational exposure %</u></b>
<b><u>1</u></b>	<b><u>7.25</u></b>	<b><u>1.45</u></b>
<b><u>2</u></b>	<b><u>7.51</u></b>	<b><u>1.502</u></b>
<b><u>3</u></b>	<b><u>8.17</u></b>	<b><u>1.634</u></b>
<b><u>4</u></b>	<b><u>8.36</u></b>	<b><u>1.762</u></b>
<b><u>5</u></b>	<b><u>8.49</u></b>	<b><u>1.698</u></b>
<b><u>6</u></b>	<b><u>9.55</u></b>	<b><u>1.91</u></b>
<b><u>7</u></b>	<b><u>9.66</u></b>	<b><u>1.932</u></b>
<b><u>8</u></b>	<b><u>9.28</u></b>	<b><u>1.856</u></b>
<b><u>9</u></b>	<b><u>8.88</u></b>	<b><u>1.776</u></b>
<b><u>10</u></b>	<b><u>9.02</u></b>	<b><u>1.804</u></b>
<b><u>11</u></b>	<b><u>9.74</u></b>	<b><u>1.948</u></b>
<b><u>12</u></b>	<b><u>10.51</u></b>	<b><u>2.102</u></b>
<b><u>13</u></b>	<b><u>13.3</u></b>	<b><u>2.66</u></b>
<b><u>14</u></b>	<b><u>13.3</u></b>	<b><u>2.66</u></b>
<b><u>15</u></b>	<b><u>12.3</u></b>	<b><u>2.46</u></b>
<b><u>16</u></b>	<b><u>11.9</u></b>	<b><u>2.38</u></b>
<b><u>17</u></b>	<b><u>10.67</u></b>	<b><u>2.134</u></b>
<b><u>18</u></b>	<b><u>10.91</u></b>	<b><u>2.134</u></b>
<b><u>19</u></b>	<b><u>11.4</u></b>	<b><u>2.28</u></b>
<b><u>20</u></b>	<b><u>13.2</u></b>	<b><u>2.64</u></b>
<b><u>21</u></b>	<b><u>11.9</u></b>	<b><u>2.38</u></b>
<b><u>22</u></b>	<b><u>14.1</u></b>	<b><u>2.82</u></b>
<b><u>23</u></b>	<b><u>6.9</u></b>	<b><u>1.38</u></b>
<b><u>24</u></b>	<b><u>7.7</u></b>	<b><u>1.54</u></b>
<b><u>25</u></b>	<b><u>8.4</u></b>	<b><u>1.68</u></b>
<b><u>26</u></b>	<b><u>12.72</u></b>	<b><u>2.544</u></b>
<b><u>27</u></b>	<b><u>11.33</u></b>	<b><u>2.266</u></b>
<b><u>28</u></b>	<b><u>10.86</u></b>	<b><u>2.172</u></b>
<b><u>29</u></b>	<b><u>10.3</u></b>	<b><u>2.06</u></b>
<b><u>30</u></b>	<b><u>1.25</u></b>	<b><u>.25</u></b>

<b>Point</b>	<b>Total general public exposure %</b>	<b>Total occupational exposure %</b>
<b><u>31</u></b>	<b><u>6.5</u></b>	<b><u>1.3</u></b>
<b><u>32</u></b>	<b><u>6.5</u></b>	<b><u>1.3</u></b>
<b><u>33</u></b>	<b><u>7.7</u></b>	<b><u>1.54</u></b>
<b><u>34</u></b>	<b><u>8.2</u></b>	<b><u>1.64</u></b>
<b><u>35</u></b>	<b><u>8.85</u></b>	<b><u>1.77</u></b>
<b><u>36</u></b>	<b><u>9.75</u></b>	<b><u>1.95</u></b>
<b><u>37</u></b>	<b><u>10.7</u></b>	<b><u>2.14</u></b>
<b><u>38</u></b>	<b><u>11.65</u></b>	<b><u>2.33</u></b>
<b><u>39</u></b>	<b><u>13</u></b>	<b><u>2.6</u></b>
<b><u>40</u></b>	<b><u>14</u></b>	<b><u>2.8</u></b>
<b><u>41</u></b>	<b><u>14.7</u></b>	<b><u>2.94</u></b>
<b><u>42</u></b>	<b><u>14.05</u></b>	<b><u>2.81</u></b>
<b><u>43</u></b>	<b><u>14.55</u></b>	<b><u>2.91</u></b>
<b><u>44</u></b>	<b><u>11.5</u></b>	<b><u>2.3</u></b>
<b><u>45</u></b>	<b><u>13.65</u></b>	<b><u>2.73</u></b>
<b><u>46</u></b>	<b><u>6.15</u></b>	<b><u>1.23</u></b>
<b><u>47</u></b>	<b><u>7.55</u></b>	<b><u>1.51</u></b>