

***COMPREHENSIVE TECHNICAL EXHIBIT
APPLICATION FOR CHANNEL SHARE
CONSTRUCTION PERMIT***

**WTGL - LEESBURG, FLORIDA
FACILITY ID: 9881**

GOOD LIFE BROADCASTING, INC.

OCTOBER, 2017

JEREMY RUCK & ASSOCIATES, INC.

**P.O. Box 415
221 S. 1st Avenue
Canton, IL 61520**

**Tel: 309.647.1200
Fax: 855.332.9537
jeremyruck.com**

10.20.2017

APPLICATION FOR CHANNEL SHARE CONSTRUCTION PERMIT

The following engineering statement and attached exhibits have been prepared for **Good Life Broadcasting, Inc.** ("Good Life"), licensee of digital television station WTGL at Leesburg, Florida, and are in support of their application for construction permit to channel share.¹ Good Life has entered into a channel sharing agreement with the University of Central Florida Board of Trustees ("UCF"). This application is the initial construction permit application for WTGL to implement channel sharing with UCF. The technical parameters associated with this application are in agreement with those authorized for WUCF-TV on the most recent construction permit.²

The current license for WTGL specifies operation on television channel 46. That channel will be vacated under the incentive auction. WTGL will continue operation on channel 34 with WUCF-TV. The facilities are currently authorized to operate on that channel with a maximum effective radiated power of 1000 kW horizontally polarized at a center of radiation of 391.8 meters above mean sea level. This elevation corresponds to a height of 372 meters above ground level, or 379.7 meters above average terrain.

A directional antenna is authorized for use under the current technical parameters. The required technical data for the antenna was uploaded as an attachment to the WUCF-TV construction permit application. That data is appended to this technical exhibit for submission under this application.³

¹ The Facility ID for WTGL at Leesburg, Florida is 9881.

² See WUCF-TV construction permit under LMS File No. 000027156.

³ Antenna data is that submitted with WUCF-TV application plus a vertical plane plot in dBk at azimuths of relative field value of 1.0 in the horizontal plane.

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The authorized technical parameters comply with the city of license coverage requirements of Section 73.625(a) of the Commission's Rules. Exhibits E-1 and E-2 illustrate the predicted 48 dBu F(50,90) service contour for the authorized technical parameters. As these two maps demonstrate, this contour would fully encompass Leesburg, Florida, the WTGL community of license.

The main studio for WTGL would comply with the provisions of Section 73.1125 of the Commission's Rules. Exhibit E-3 illustrates the location of the main studio, which is at an address of 31 Skyline Drive in Lake Mary, Florida. This location is within the 48 dBu F(50,90) service contour of the transmission facility.

The technical parameters specified under this application are identical to those specified in the WUCF-TV CP application, and as authorized under the WUCF-TV construction permit. Compliance with all appropriate sections of the Commission's Rules was demonstrated under that application. Good Life will coordinate with UCF to ensure that compliance with all relevant Commission Rules is maintained, including, but not limited to, the reduction of transmitter power or cessation of operation to protect workers and other personnel from exposure to levels of radiofrequency radiation in excess of limits permitted under the Commission's safety standards.

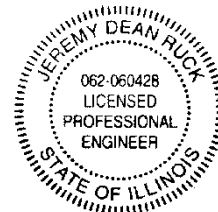
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10.20.2017

The preceding statement and attached exhibits have been prepared by me, or under my direction, and are true and accurate to the best of my belief and knowledge.



Above signature is digitized copy of actual signature
License Expires November 30, 2019

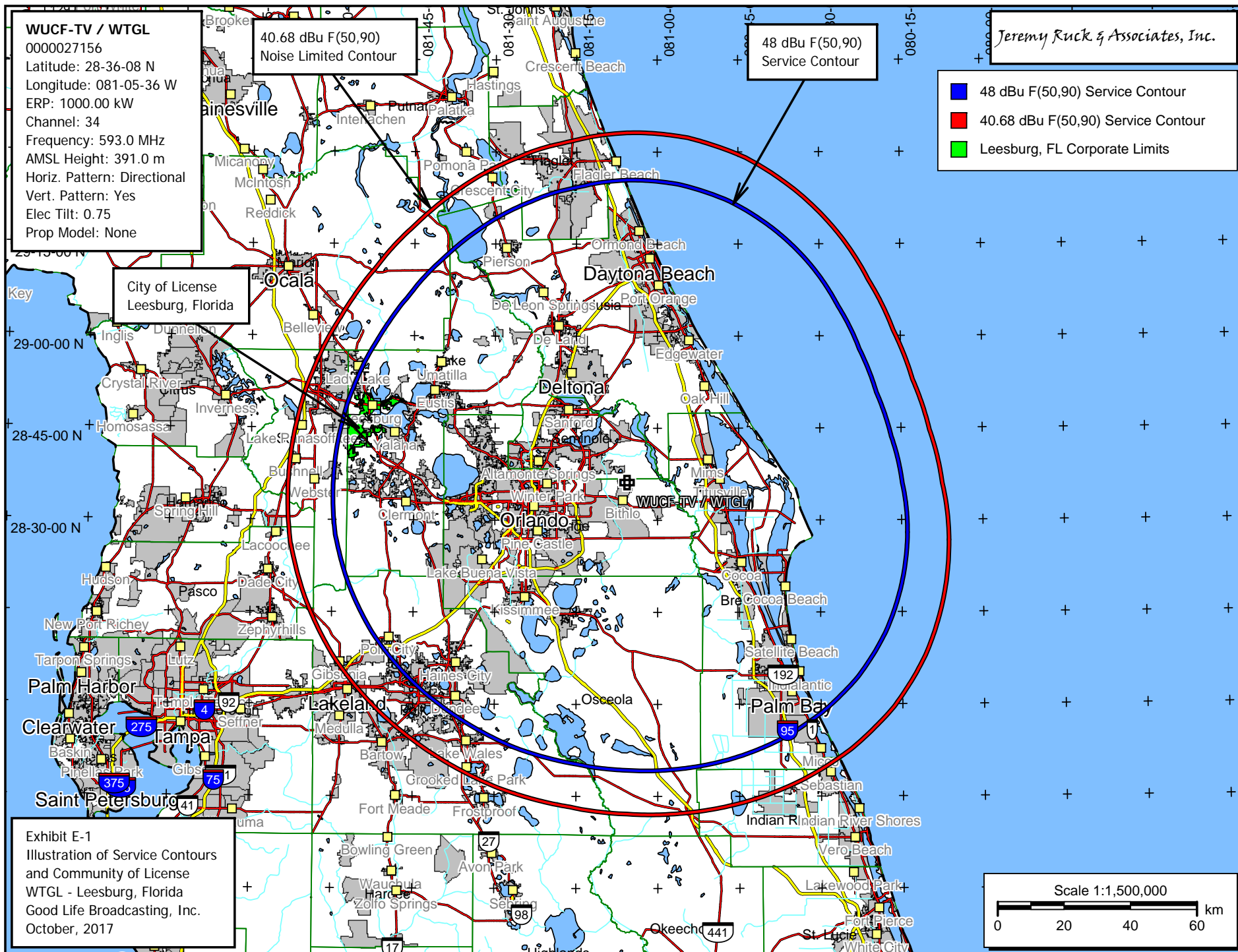
Jeremy D. Ruck, PE
October 20, 2017

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10.20.2017



WUCF-TV / WTGL

0000027156

Latitude: 28-36-08 N

Longitude: 081-05-36 W

ERP: 1000.00 kW

Channel: 34

Frequency: 593.0 MHz

AMSLL Height: 391.0 m

Horiz. Pattern: Directional

Vert. Pattern: Yes

Elec Tilt: 0.75

Prop Model: None

Jeremy Ruck & Associates, Inc.

- 48 dBu F(50,90) Service Contour
- 40.68 dBu F(50,90) Service Contour
- Leesburg, FL Corporate Limits

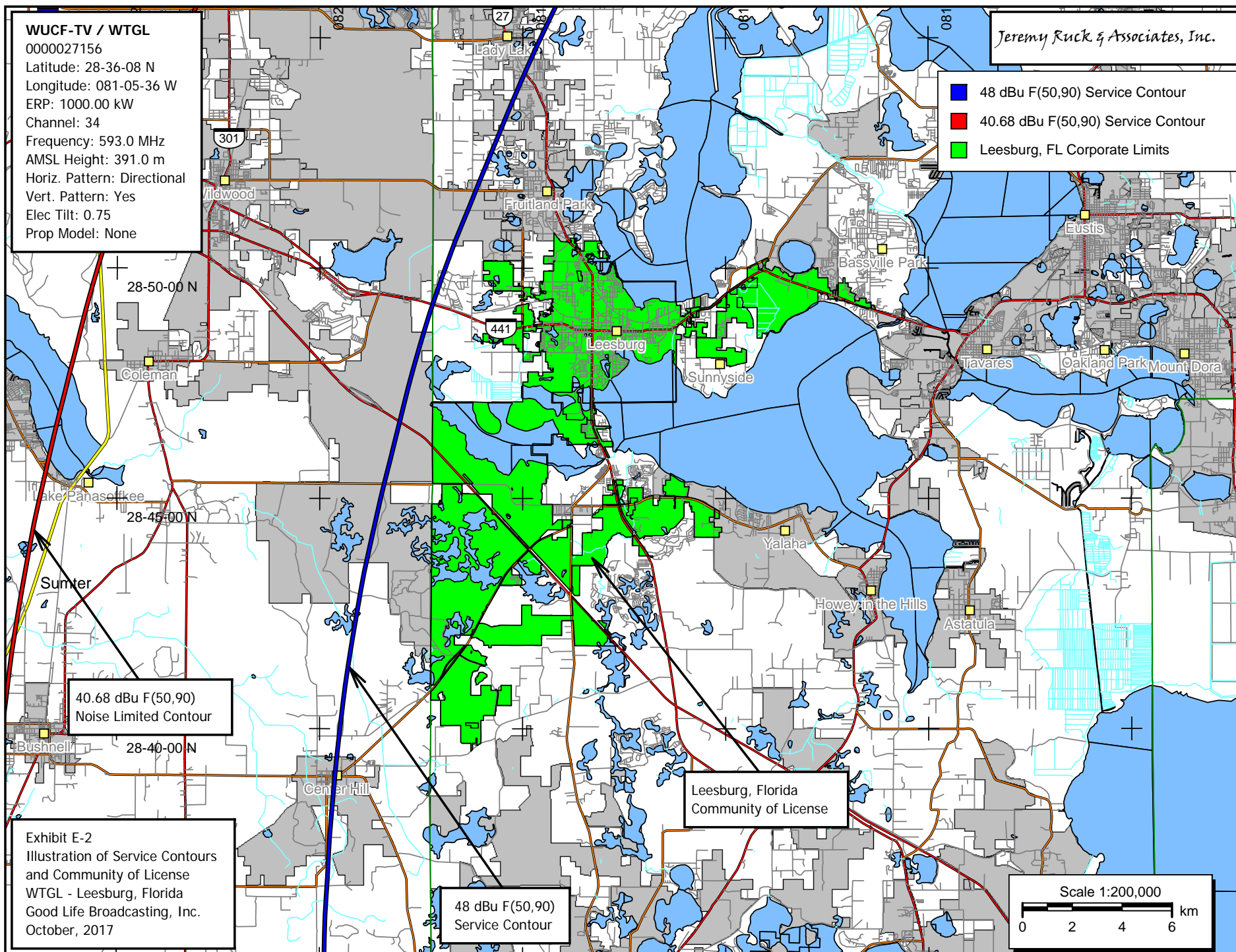


Exhibit E-2

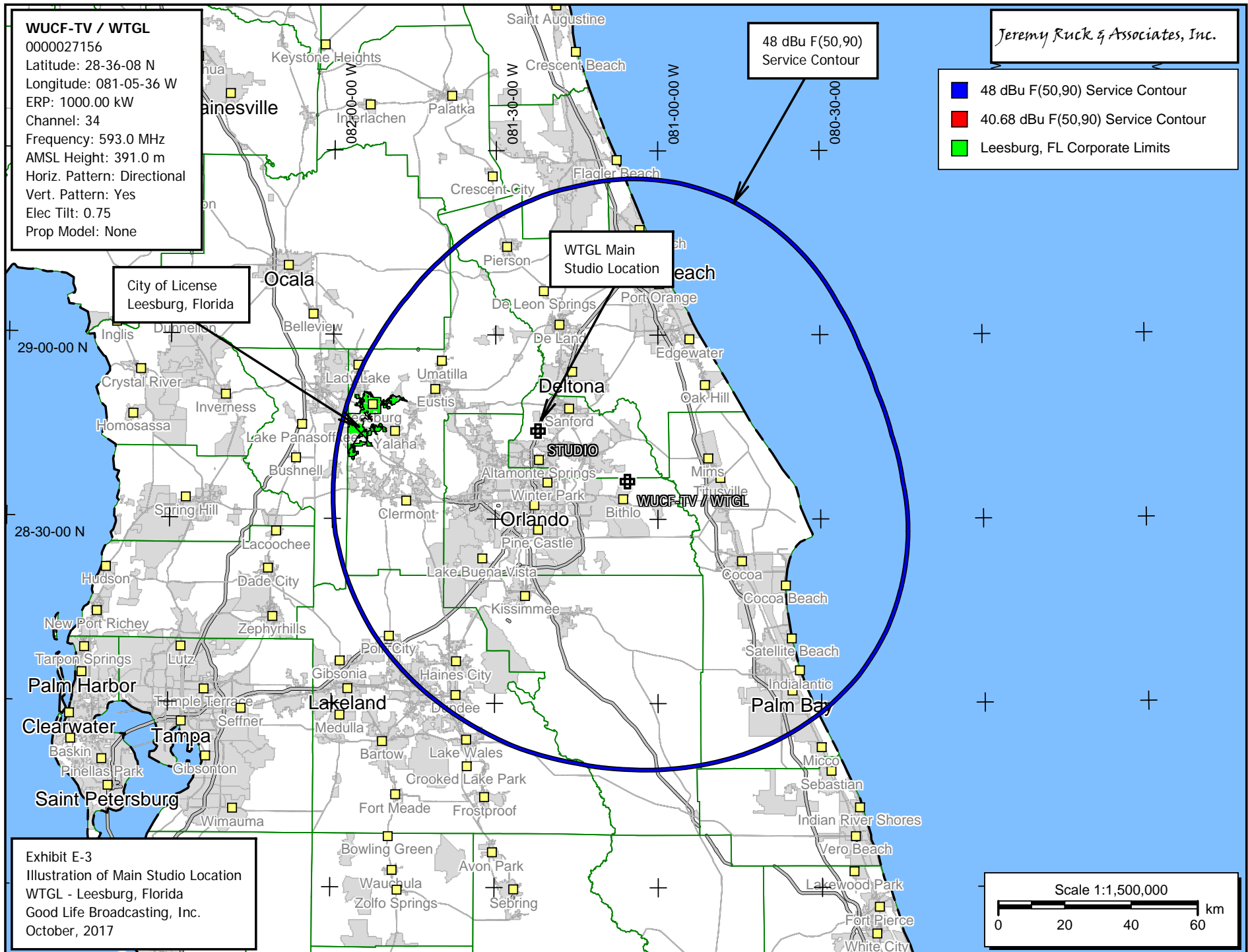
Illustration of Service Contours

and Community of License

WTGL - Leesburg, Florida

Good Life Broadcasting, Inc.

October, 2017



**Antenna Model:****TFU-30DSC-R 3C150**

Proposal Number: **C-70565**
Date: **21-Mar-17**
Customer: **University of Central Florida**
Location: **Orlando, FL**

Electrical Specifications

Polarization: **Horizontal**
Azimuth Pattern: **Directional**
Antenna Input: **6-1/8"** **75 Ohm** **EIA/DCA**
VSWR: **Channel** **1.08 : 1**
Bandwidth: **6 MHz**
Rated Input Power: **35 kW** **(15.44 dBk)** **Maximum Average Power**

Mechanical Specifications

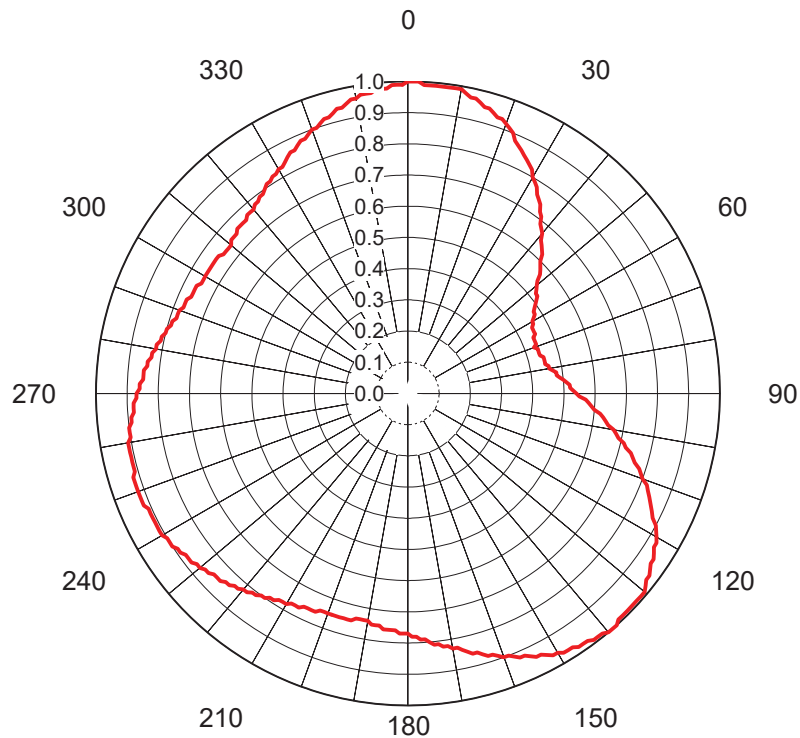
Mounting: **Side Mounted**
Environmental Protection: **Full Radome**
Height: **55.1 ft (16.8m)**
Weight: **1300 lb (0.6t)** **Excludes Mounts**
Effective Projected Area: **84.7 ft² (7.9m²)** **TIA/EIA-222-F** **Basic Wind Speed: 100 m/h (160.9 km/h)**

Channel Specifications

| Call | CH | Freq | Hpol ERP | TPO | Peak Main Lobe Hpol Gain | Peak at Horizontal Hpol Gain |
|------|----|---------|------------------------|------------------------|--------------------------------|------------------------------------|
| WUCF | 34 | 593 MHz | 1000 kW (30.00 dBk) | 40.2 kW (16.04 dBk) | 35.94 (15.56dB) | 21.31 (13.29dB) |

Andre J Skalina
I have reviewed this document
'00'04- 14:20:45 2017.03.27

QSP



AZIMUTH PATTERN Horizontal Polarization

In Free Space

Proposal No. **C-70565**
 Date **21-Mar-17**
 Call Letters **WUCF**
 Channel **34**
 Frequency **593 MHz**
 Antenna Type **TFU-30DSC-R 3C150**
 Gain **1.51 (1.8dB)**
 Calculated

| Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value | Deg | Value |
|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|-----|-------|
| 0 | 1.000 | 36 | 0.720 | 72 | 0.440 | 108 | 0.780 | 144 | 0.980 | 180 | 0.770 | 216 | 0.800 | 252 | 0.920 | 288 | 0.780 |
| 1 | 1.000 | 37 | 0.710 | 73 | 0.440 | 109 | 0.790 | 145 | 0.980 | 181 | 0.770 | 217 | 0.810 | 253 | 0.920 | 289 | 0.780 |
| 2 | 1.000 | 38 | 0.690 | 74 | 0.440 | 110 | 0.800 | 146 | 0.980 | 182 | 0.770 | 218 | 0.810 | 254 | 0.910 | 290 | 0.780 |
| 3 | 0.990 | 39 | 0.680 | 75 | 0.450 | 111 | 0.820 | 147 | 0.970 | 183 | 0.760 | 219 | 0.820 | 255 | 0.910 | 291 | 0.770 |
| 4 | 0.990 | 40 | 0.670 | 76 | 0.450 | 112 | 0.830 | 148 | 0.970 | 184 | 0.760 | 220 | 0.820 | 256 | 0.910 | 292 | 0.770 |
| 5 | 0.990 | 41 | 0.650 | 77 | 0.450 | 113 | 0.840 | 149 | 0.970 | 185 | 0.760 | 221 | 0.830 | 257 | 0.910 | 293 | 0.770 |
| 6 | 0.990 | 42 | 0.640 | 78 | 0.450 | 114 | 0.850 | 150 | 0.960 | 186 | 0.760 | 222 | 0.830 | 258 | 0.910 | 294 | 0.760 |
| 7 | 0.990 | 43 | 0.630 | 79 | 0.460 | 115 | 0.860 | 151 | 0.960 | 187 | 0.750 | 223 | 0.840 | 259 | 0.910 | 295 | 0.760 |
| 8 | 0.990 | 44 | 0.620 | 80 | 0.460 | 116 | 0.870 | 152 | 0.950 | 188 | 0.750 | 224 | 0.840 | 260 | 0.910 | 296 | 0.760 |
| 9 | 0.990 | 45 | 0.600 | 81 | 0.470 | 117 | 0.880 | 153 | 0.940 | 189 | 0.750 | 225 | 0.850 | 261 | 0.900 | 297 | 0.760 |
| 10 | 0.990 | 46 | 0.590 | 82 | 0.480 | 118 | 0.900 | 154 | 0.940 | 190 | 0.740 | 226 | 0.850 | 262 | 0.900 | 298 | 0.750 |
| 11 | 0.980 | 47 | 0.580 | 83 | 0.480 | 119 | 0.910 | 155 | 0.930 | 191 | 0.740 | 227 | 0.850 | 263 | 0.900 | 299 | 0.750 |
| 12 | 0.970 | 48 | 0.570 | 84 | 0.490 | 120 | 0.920 | 156 | 0.920 | 192 | 0.740 | 228 | 0.860 | 264 | 0.890 | 300 | 0.750 |
| 13 | 0.970 | 49 | 0.550 | 85 | 0.500 | 121 | 0.930 | 157 | 0.920 | 193 | 0.740 | 229 | 0.860 | 265 | 0.890 | 301 | 0.750 |
| 14 | 0.960 | 50 | 0.540 | 86 | 0.510 | 122 | 0.930 | 158 | 0.910 | 194 | 0.750 | 230 | 0.870 | 266 | 0.880 | 302 | 0.750 |
| 15 | 0.950 | 51 | 0.530 | 87 | 0.520 | 123 | 0.940 | 159 | 0.900 | 195 | 0.750 | 231 | 0.870 | 267 | 0.880 | 303 | 0.750 |
| 16 | 0.950 | 52 | 0.520 | 88 | 0.520 | 124 | 0.950 | 160 | 0.900 | 196 | 0.750 | 232 | 0.880 | 268 | 0.880 | 304 | 0.750 |
| 17 | 0.940 | 53 | 0.520 | 89 | 0.530 | 125 | 0.950 | 161 | 0.890 | 197 | 0.750 | 233 | 0.880 | 269 | 0.870 | 305 | 0.750 |
| 18 | 0.930 | 54 | 0.510 | 90 | 0.540 | 126 | 0.960 | 162 | 0.880 | 198 | 0.750 | 234 | 0.880 | 270 | 0.870 | 306 | 0.750 |
| 19 | 0.930 | 55 | 0.500 | 91 | 0.550 | 127 | 0.970 | 163 | 0.880 | 199 | 0.750 | 235 | 0.890 | 271 | 0.860 | 307 | 0.740 |
| 20 | 0.920 | 56 | 0.490 | 92 | 0.570 | 128 | 0.970 | 164 | 0.870 | 200 | 0.750 | 236 | 0.890 | 272 | 0.860 | 308 | 0.740 |
| 21 | 0.910 | 57 | 0.480 | 93 | 0.580 | 129 | 0.980 | 165 | 0.860 | 201 | 0.750 | 237 | 0.900 | 273 | 0.850 | 309 | 0.740 |
| 22 | 0.900 | 58 | 0.480 | 94 | 0.590 | 130 | 0.990 | 166 | 0.860 | 202 | 0.750 | 238 | 0.900 | 274 | 0.850 | 310 | 0.740 |
| 23 | 0.880 | 59 | 0.470 | 95 | 0.600 | 131 | 0.990 | 167 | 0.850 | 203 | 0.760 | 239 | 0.900 | 275 | 0.850 | 311 | 0.750 |
| 24 | 0.870 | 60 | 0.460 | 96 | 0.620 | 132 | 0.990 | 168 | 0.840 | 204 | 0.760 | 240 | 0.910 | 276 | 0.840 | 312 | 0.750 |
| 25 | 0.860 | 61 | 0.460 | 97 | 0.630 | 133 | 0.990 | 169 | 0.830 | 205 | 0.760 | 241 | 0.910 | 277 | 0.840 | 313 | 0.750 |
| 26 | 0.850 | 62 | 0.450 | 98 | 0.640 | 134 | 0.990 | 170 | 0.830 | 206 | 0.760 | 242 | 0.910 | 278 | 0.830 | 314 | 0.760 |
| 27 | 0.840 | 63 | 0.450 | 99 | 0.650 | 135 | 0.990 | 171 | 0.820 | 207 | 0.770 | 243 | 0.910 | 279 | 0.830 | 315 | 0.760 |
| 28 | 0.830 | 64 | 0.450 | 100 | 0.670 | 136 | 0.990 | 172 | 0.820 | 208 | 0.770 | 244 | 0.910 | 280 | 0.820 | 316 | 0.760 |
| 29 | 0.820 | 65 | 0.450 | 101 | 0.680 | 137 | 0.990 | 173 | 0.810 | 209 | 0.770 | 245 | 0.910 | 281 | 0.820 | 317 | 0.760 |
| 30 | 0.800 | 66 | 0.440 | 102 | 0.690 | 138 | 1.000 | 174 | 0.810 | 210 | 0.780 | 246 | 0.910 | 282 | 0.810 | 318 | 0.770 |
| 31 | 0.790 | 67 | 0.440 | 103 | 0.710 | 139 | 1.000 | 175 | 0.800 | 211 | 0.780 | 247 | 0.920 | 283 | 0.810 | 319 | 0.770 |
| 32 | 0.780 | 68 | 0.440 | 104 | 0.720 | 140 | 1.000 | 176 | 0.790 | 212 | 0.780 | 248 | 0.920 | 284 | 0.800 | 320 | 0.770 |
| 33 | 0.760 | 69 | 0.440 | 105 | 0.740 | 141 | 0.990 | 177 | 0.790 | 213 | 0.790 | 249 | 0.920 | 285 | 0.800 | 321 | 0.780 |
| 34 | 0.750 | 70 | 0.430 | 106 | 0.750 | 142 | 0.990 | 178 | 0.780 | 214 | 0.790 | 250 | 0.920 | 286 | 0.790 | 322 | 0.780 |
| 35 | 0.740 | 71 | 0.440 | 107 | 0.760 | 143 | 0.990 | 179 | 0.780 | 215 | 0.800 | 251 | 0.920 | 287 | 0.790 | 323 | 0.790 |

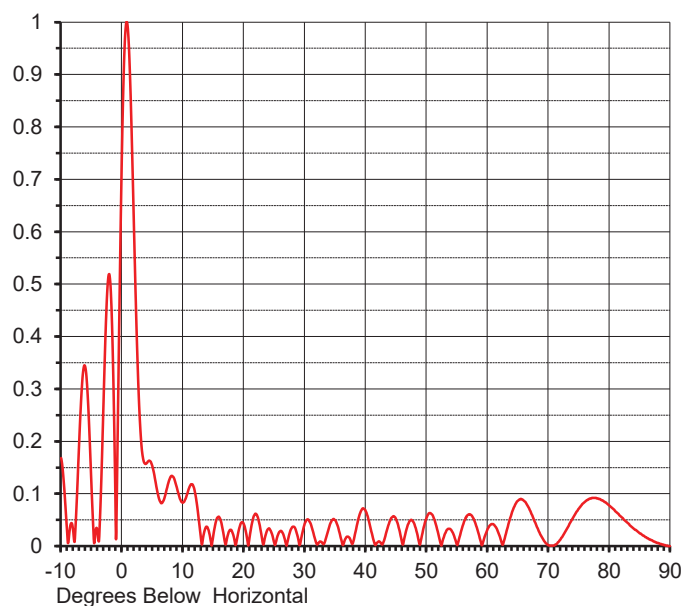
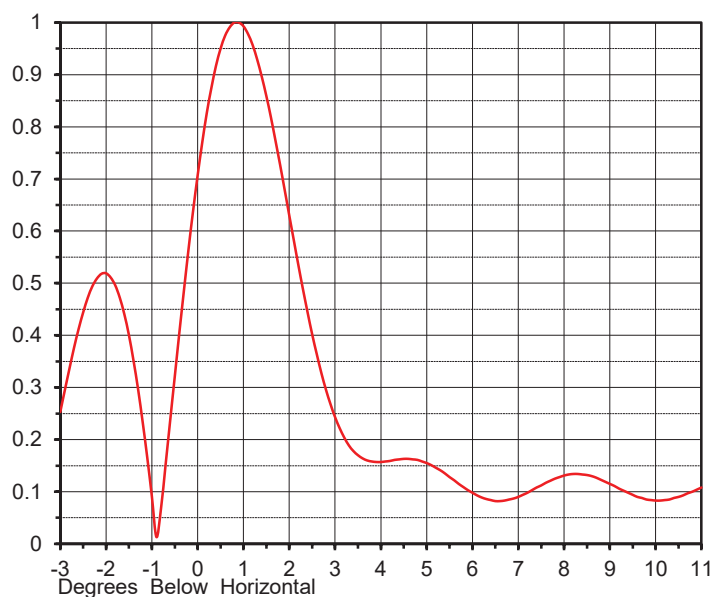
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ELEVATION PATTERN

Proposal No. **C-70565**
 Date **21-Mar-17**
 Call Letters **WUCF**
 Channel **34**
 Frequency **593 MHz**
 Antenna Type **TFU-30DSC-R 3C150**

RMS Directivity at Main Lobe **23.8 (13.76 dB)**
 RMS Directivity at Horizontal **14.1 (11.49 dB)**
Calculated

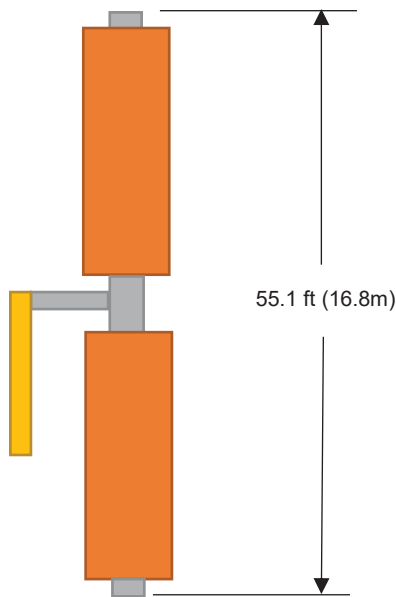
Beam Tilt **0.75 deg**
 Pattern Number **30Q238075**



| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.168 | 10.0 | 0.083 | 30.0 | 0.044 | 50.0 | 0.055 | 70.0 | 0.002 |
| -9.0 | 0.023 | 11.0 | 0.111 | 31.0 | 0.041 | 51.0 | 0.058 | 71.0 | 0.002 |
| -8.0 | 0.026 | 12.0 | 0.100 | 32.0 | 0.003 | 52.0 | 0.018 | 72.0 | 0.014 |
| -7.0 | 0.211 | 13.0 | 0.009 | 33.0 | 0.004 | 53.0 | 0.024 | 73.0 | 0.033 |
| -6.0 | 0.339 | 14.0 | 0.036 | 34.0 | 0.037 | 54.0 | 0.031 | 74.0 | 0.054 |
| -5.0 | 0.107 | 15.0 | 0.023 | 35.0 | 0.049 | 55.0 | 0.002 | 75.0 | 0.072 |
| -4.0 | 0.024 | 16.0 | 0.054 | 36.0 | 0.011 | 56.0 | 0.042 | 76.0 | 0.085 |
| -3.0 | 0.295 | 17.0 | 0.003 | 37.0 | 0.018 | 57.0 | 0.061 | 77.0 | 0.091 |
| -2.0 | 0.511 | 18.0 | 0.029 | 38.0 | 0.011 | 58.0 | 0.043 | 78.0 | 0.091 |
| -1.0 | 0.013 | 19.0 | 0.022 | 39.0 | 0.061 | 59.0 | 0.002 | 79.0 | 0.086 |
| 0.0 | 0.770 | 20.0 | 0.041 | 40.0 | 0.066 | 60.0 | 0.033 | 80.0 | 0.077 |
| 1.0 | 0.978 | 21.0 | 0.023 | 41.0 | 0.024 | 61.0 | 0.041 | 81.0 | 0.066 |
| 2.0 | 0.582 | 22.0 | 0.061 | 42.0 | 0.008 | 62.0 | 0.018 | 82.0 | 0.055 |
| 3.0 | 0.222 | 23.0 | 0.012 | 43.0 | 0.011 | 63.0 | 0.024 | 83.0 | 0.044 |
| 4.0 | 0.158 | 24.0 | 0.033 | 44.0 | 0.049 | 64.0 | 0.065 | 84.0 | 0.033 |
| 5.0 | 0.151 | 25.0 | 0.005 | 45.0 | 0.050 | 65.0 | 0.087 | 85.0 | 0.024 |
| 6.0 | 0.093 | 26.0 | 0.029 | 46.0 | 0.004 | 66.0 | 0.086 | 86.0 | 0.017 |
| 7.0 | 0.094 | 27.0 | 0.001 | 47.0 | 0.043 | 67.0 | 0.067 | 87.0 | 0.011 |
| 8.0 | 0.133 | 28.0 | 0.037 | 48.0 | 0.041 | 68.0 | 0.039 | 88.0 | 0.006 |
| 9.0 | 0.111 | 29.0 | 0.008 | 49.0 | 0.009 | 69.0 | 0.015 | 89.0 | 0.002 |
| | | | | | | | | 90.0 | 0.000 |

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MECHANICAL SPECIFICATIONS



Proposal No. **C-70565**
 Date **21-Mar-17**
 Call Letters **WUCF**
 Channel **34**
 Frequency **593 MHz**
 Antenna Type **TFU-30DSC-R 3C150**

Preliminary Specifications

Side Mounted

Without ice TIA/EIA-222-F

Height AGL 1220.5 ft (372 m)
 Basic Wind Speed 100 m/h (160.9 km/h)

Mechanical Specifications

| | | | |
|-------------------------------|------|-------------------------------------------|-----------------|
| Height | H2 | 55.1 ft (16.8m) | |
| Height of Center of Radiation | H3 | 27.55 ft (8.4m) | |
| Force Coeff. x Projected Area | CaAc | 84.7 ft ² (7.9m ²) | Mounts Excluded |
| Weight | W | 1300 lb (0.6t) | Mounts Excluded |

Antenna designed in accordance with AISC specifications for design of structural steel as prescribed by TIA/EIA-222-F

Prepared by: DLS

Date: 21-Mar-17

ME:

EE:

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Summary

| | |
|--------------|--------------------------|
| Proposal No. | C-70565 |
| Date | 21-Mar-17 |
| Call Letters | WUCF |
| Channel | 34 |
| Frequency | 593 MHz |
| Antenna Type | TFU-30DSC-R 3C150 |

Antenna

| | | |
|-------------|----------------|----------------------|
| | | Hpol |
| ERP: | 1000 kW | (30.00 dBk) |
| Peak Gain* | 35.94 | (15.56 dB) |

| | | |
|----------------------------|----------------|----------------------|
| Antenna Input Power | 27.8 kW | (14.44 dBk) |
|----------------------------|----------------|----------------------|

Transmission Line

| | | | |
|------------|----------------|----------------|--------------------|
| Type: | Rigid | Attenuation: | (1.59 dB) |
| Size: | 6-1/8" | Efficiency: | 69.3% |
| Impedance: | 75 Ohm | | |
| Length: | 1340 ft | 408.4 m | |

Transmitter Output

| | |
|----------------|----------------------|
| 40.2 kW | (16.04 dBk) |
|----------------|----------------------|

Transmitter filter losses not included

* Directivity and Gain are with respect to half wave dipole. The gain includes feed system losses

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WUCF-TV/WTGL Vertical Pattern ERP in dBk at 0-2 & 138-140 Degrees True

| Angle | EREL | dBk ERP |
|-------|--------|---------|
| -4.00 | 0.0240 | -2.40 |
| -3.00 | 0.2950 | 19.40 |
| -2.00 | 0.5110 | 24.17 |
| -1.00 | 0.0130 | -7.72 |
| 0.00 | 0.7700 | 27.73 |
| 1.00 | 0.9780 | 29.81 |
| 2.00 | 0.5820 | 25.30 |
| 3.00 | 0.2220 | 16.93 |
| 4.00 | 0.1580 | 13.97 |
| 5.00 | 0.1510 | 13.58 |
| 6.00 | 0.0930 | 9.37 |
| 7.00 | 0.0940 | 9.46 |
| 8.00 | 0.1330 | 12.48 |
| 9.00 | 0.1110 | 10.91 |
| 10.00 | 0.0830 | 8.38 |
| 11.00 | 0.1110 | 10.91 |
| 12.00 | 0.1000 | 10.00 |
| 13.00 | 0.0900 | 9.08 |
| 14.00 | 0.0360 | 1.13 |
| 15.00 | 0.0230 | -2.77 |
| 16.00 | 0.0540 | 4.65 |
| 17.00 | 0.0030 | -20.46 |
| 18.00 | 0.0290 | -0.75 |
| 19.00 | 0.0220 | -3.15 |
| 20.00 | 0.0410 | 2.26 |
| 21.00 | 0.0230 | -2.77 |
| 22.00 | 0.0610 | 5.71 |
| 23.00 | 0.0120 | -8.42 |
| 24.00 | 0.0330 | 0.37 |
| 25.00 | 0.0050 | -16.02 |
| 26.00 | 0.0290 | -0.75 |
| 27.00 | 0.0010 | -30.00 |
| 28.00 | 0.0370 | 1.36 |
| 29.00 | 0.0080 | -11.94 |
| 30.00 | 0.0440 | 2.87 |
| 31.00 | 0.0410 | 2.26 |
| 32.00 | 0.0030 | -20.46 |
| 34.00 | 0.0040 | -17.96 |
| 36.00 | 0.0110 | -9.17 |
| 38.00 | 0.0110 | -9.17 |
| 40.00 | 0.0660 | 6.39 |
| 42.00 | 0.0080 | -11.94 |
| 44.00 | 0.0490 | 3.80 |
| 46.00 | 0.0040 | -17.96 |
| 48.00 | 0.0410 | 2.26 |
| 50.00 | 0.0550 | 4.81 |
| 52.00 | 0.0180 | -4.89 |
| 54.00 | 0.0310 | -0.17 |
| 56.00 | 0.0420 | 2.46 |
| 58.00 | 0.0430 | 2.67 |
| 60.00 | 0.0330 | 0.37 |
| 62.00 | 0.0180 | -4.89 |
| 64.00 | 0.0650 | 6.26 |
| 66.00 | 0.0860 | 8.69 |
| 68.00 | 0.0390 | 1.82 |
| 70.00 | 0.0020 | -23.98 |
| 72.00 | 0.0140 | -7.08 |
| 74.00 | 0.0540 | 4.65 |
| 76.00 | 0.0850 | 8.59 |
| 78.00 | 0.0910 | 9.18 |
| 80.00 | 0.0770 | 7.73 |
| 82.00 | 0.0550 | 4.81 |
| 84.00 | 0.0330 | 0.37 |
| 86.00 | 0.0170 | -5.39 |
| 88.00 | 0.0060 | -14.44 |

Effective Radiated Power in dBk.

