

Ritmo Broadcasting, LLC Identification of Facilities Burlington, NJ

The proposed translator will broadcast on 225, which is within the 60 dBu contour of second adjacent stations WXTU on channel 223 and WMMR on channel 227. The WXTU interfering contour at the translator site is 65.4 dBu F(50,50) and the WMMR interfering contour at the translator site is 67.4 dBu F(50,50). Using the ratio of 100:1 (translator to WXTU and WMMR) on the second adjacent channel, the population within the proposed translator 104.5 and 107.4 dBu contour is zero. Applying the antenna manufacturer's vertical radiation pattern the area of interference is able to be more accurately calculated geometrically than just by using the free space equation alone. This particular antenna is a Half Wave spaced four bay PSI FML. It was determined from the manufacturer's vertical plan that at 15 degrees below horizontal the interference area would reach down 81.8 meters and extend 305.2 meters horizontally. We have proposed the antenna radiation center will be 85 meters above ground with an Effective Radiated Power of 190 watts. There are no occupied structures or elevated roadways within the interference area of the translator.

Therefore, the application is in compliance with the following: §74.1204 (d) "The provisions of this section concerning prohibited overlap will not apply where the area of such overlap lies entirely over water. In addition, an application otherwise precluded by this section will be accepted if it can be demonstrated that no actual interference will occur due to intervening terrain, lack of population or such other factors as may be applicable."

Figure 1
Minimum Ground Clearance

ERP: 190

ARC: 85

| Depression Angle Below Horizontal | Antenna Relative Field | ERP (Watts) | Distance to interfering Contour from Antenna (m) | Horizontal Distance of Interfering contour from tower (m) | Vertical Clearance of Interfering contour above TGL (m) |
|---|---------------------------|----------------|--|---|---|
| 5 | 0.950 | 171.5 | 493 | 491.1 | 42.0 |
| 10 | 0.810 | 124.7 | 421 | 414.6 | 11.9 |
| 15 | 0.609 | 70.5 | 316 | 305.2 | 3.2 |
| 20 | 0.384 | 28.0 | 199 | 187.0 | 16.9 |
| 25 | 0.171 | 5.6 | 89 | 80.7 | 47.4 |
| 30 | 0.001 | 0.0 | 0 | 0.0 | 85.0 |
| 35 | 0.117 | 2.6 | 61 | 50.0 | 50.0 |
| 40 | 0.177 | 6.0 | 92 | 70.5 | 25.9 |
| 45 | 0.190 | 6.9 | 99 | 70.0 | 15.0 |
| 50 | 0.171 | 5.6 | 89 | 57.2 | 16.8 |
| 55 | 0.135 | 3.5 | 70 | 40.2 | 27.7 |
| 60 | 0.095 | 1.7 | 49 | 24.5 | 42.6 |
| 65 | 0.059 | 0.7 | 32 | 13.5 | 56.0 |
| 70 | 0.032 | 0.2 | 17 | 5.8 | 69.0 |
| 75 | 0.013 | 0.0 | 0 | 0.0 | 85.0 |
| 80 | 0.004 | 0.0 | 0 | 0.0 | 85.0 |
| 85 | 0.001 | 0.0 | 0 | 0.0 | 85.0 |
| 90 | 0.001 | 0.0 | 0 | 0.0 | 85.0 |
| Minimum Clearance above TGL: | | | | | 3.2 m |

Figure 2 Page 1
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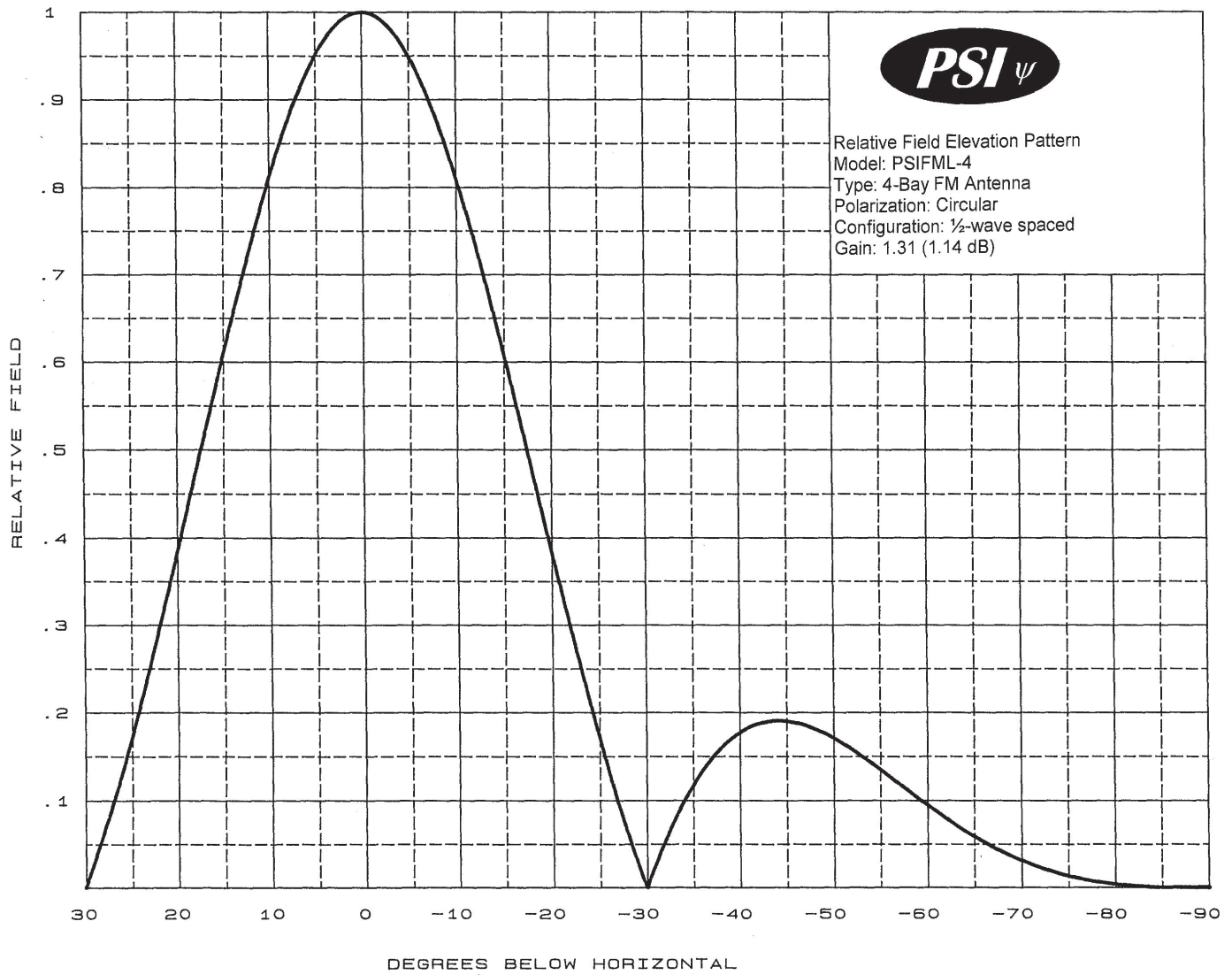


Figure 2 Page 2

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Propagation Systems Inc.

Elevation Pattern Tabulation

Antenna: PSIFM-4-HWS

Bay spacing: 1/2 wave

| Angle | Field | dB | Angle | Field | dB | Angle | Field | dB |
|-------|-------|---------|-------|-------|---------|-------|-------|---------|
| -90.0 | 0.001 | -60.000 | -50.0 | 0.171 | -15.329 | -10.0 | 0.810 | -1.825 |
| -89.0 | 0.001 | -60.000 | -49.0 | 0.177 | -15.049 | -9.0 | 0.844 | -1.469 |
| -88.0 | 0.001 | -60.000 | -48.0 | 0.182 | -14.814 | -8.0 | 0.876 | -1.154 |
| -87.0 | 0.001 | -60.000 | -47.0 | 0.186 | -14.628 | -7.0 | 0.904 | -0.880 |
| -86.0 | 0.001 | -60.000 | -46.0 | 0.188 | -14.494 | -6.0 | 0.928 | -0.645 |
| -85.0 | 0.001 | -60.000 | -45.0 | 0.190 | -14.418 | -5.0 | 0.950 | -0.446 |
| -84.0 | 0.001 | -60.000 | -44.0 | 0.191 | -14.397 | -4.0 | 0.968 | -0.285 |
| -83.0 | 0.001 | -58.329 | -43.0 | 0.190 | -14.439 | -3.0 | 0.982 | -0.161 |
| -82.0 | 0.002 | -54.112 | -42.0 | 0.187 | -14.558 | -2.0 | 0.992 | -0.071 |
| -81.0 | 0.003 | -50.816 | -41.0 | 0.183 | -14.757 | -1.0 | 0.998 | -0.018 |
| -80.0 | 0.004 | -48.091 | -40.0 | 0.177 | -15.042 | 0.0 | 1.000 | 0.000 |
| -79.0 | 0.005 | -45.510 | -39.0 | 0.169 | -15.438 | 1.0 | 0.998 | -0.018 |
| -78.0 | 0.007 | -43.327 | -38.0 | 0.159 | -15.959 | 2.0 | 0.992 | -0.071 |
| -77.0 | 0.009 | -41.122 | -37.0 | 0.147 | -16.638 | 3.0 | 0.982 | -0.159 |
| -76.0 | 0.011 | -39.244 | -36.0 | 0.133 | -17.511 | 4.0 | 0.968 | -0.285 |
| -75.0 | 0.013 | -37.403 | -35.0 | 0.117 | -18.650 | 5.0 | 0.950 | -0.446 |
| -74.0 | 0.016 | -35.722 | -34.0 | 0.098 | -20.159 | 6.0 | 0.929 | -0.643 |
| -73.0 | 0.020 | -34.179 | -33.0 | 0.077 | -22.239 | 7.0 | 0.904 | -0.879 |
| -72.0 | 0.023 | -32.697 | -32.0 | 0.054 | -25.362 | 8.0 | 0.876 | -1.154 |
| -71.0 | 0.027 | -31.334 | -31.0 | 0.028 | -30.954 | 9.0 | 0.844 | -1.469 |
| -70.0 | 0.032 | -30.030 | -30.0 | 0.001 | -60.000 | 10.0 | 0.810 | -1.825 |
| -69.0 | 0.036 | -28.823 | -29.0 | 0.030 | -30.590 | 11.0 | 0.774 | -2.224 |
| -68.0 | 0.041 | -27.668 | -28.0 | 0.062 | -24.156 | 12.0 | 0.735 | -2.669 |
| -67.0 | 0.047 | -26.592 | -27.0 | 0.096 | -20.322 | 13.0 | 0.695 | -3.162 |
| -66.0 | 0.053 | -25.559 | -26.0 | 0.133 | -17.531 | 14.0 | 0.653 | -3.705 |
| -65.0 | 0.059 | -24.592 | -25.0 | 0.171 | -15.329 | 15.0 | 0.609 | -4.302 |
| -64.0 | 0.066 | -23.661 | -24.0 | 0.211 | -13.506 | 16.0 | 0.565 | -4.959 |
| -63.0 | 0.073 | -22.784 | -23.0 | 0.253 | -11.952 | 17.0 | 0.520 | -5.682 |
| -62.0 | 0.080 | -21.971 | -22.0 | 0.295 | -10.590 | 18.0 | 0.475 | -6.474 |
| -61.0 | 0.087 | -21.182 | -21.0 | 0.339 | -9.390 | 19.0 | 0.429 | -7.349 |
| -60.0 | 0.095 | -20.446 | -20.0 | 0.384 | -8.318 | 20.0 | 0.384 | -8.315 |
| -59.0 | 0.103 | -19.753 | -19.0 | 0.429 | -7.352 | 21.0 | 0.339 | -9.390 |
| -58.0 | 0.111 | -19.101 | -18.0 | 0.474 | -6.477 | 22.0 | 0.295 | -10.590 |
| -57.0 | 0.119 | -18.482 | -17.0 | 0.520 | -5.682 | 23.0 | 0.253 | -11.947 |
| -56.0 | 0.127 | -17.916 | -16.0 | 0.565 | -4.961 | 24.0 | 0.211 | -13.506 |
| -55.0 | 0.135 | -17.384 | -15.0 | 0.609 | -4.304 | 25.0 | 0.171 | -15.329 |
| -54.0 | 0.143 | -16.891 | -14.0 | 0.653 | -3.705 | 26.0 | 0.133 | -17.531 |
| -53.0 | 0.151 | -16.434 | -13.0 | 0.695 | -3.162 | 27.0 | 0.097 | -20.308 |
| -52.0 | 0.158 | -16.025 | -12.0 | 0.735 | -2.669 | 28.0 | 0.062 | -24.156 |
| -51.0 | 0.165 | -15.658 | -11.0 | 0.774 | -2.224 | 29.0 | 0.030 | -30.546 |
| | | | | | | 30.0 | 0.001 | -60.000 |

file: FML 4-bay elevation tabulation

revision: A

Date: 1/28/08

Figure 3
Aerial Photo of the 305.2 Meter Vicinity Surrounding the Proposed Tower Site

