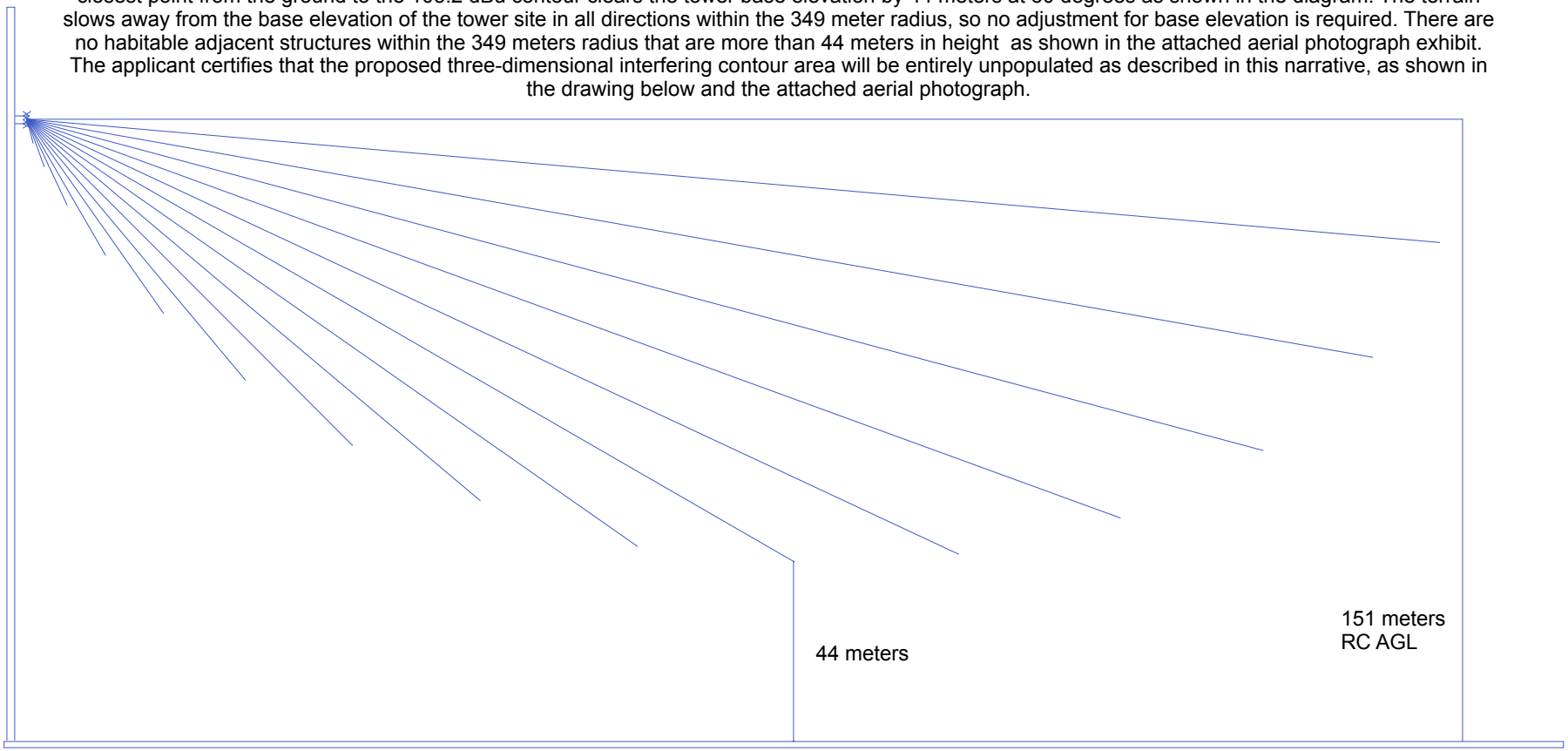
Proposed Permit Modification of W243DG, Winchester, KY
Elevation-Pattern-Based Vertical Plan ExhibitScale Drawing Depicting Distance to 105.2 dBu
Contour Shively 6812b 2-Bay Half Wave Spaced Antenna - 82 Watts ERP - 96.5 MHz - 151 meters AGL

Below is a diagram showing a scale-model elevation depiction of the area of the proposed antenna location. The antenna radiation center above the ground is proposed to be 151 meters. At 83 watts, the maximum distance to contour is 349 meters at 00 degrees. Each radial is plotted in 5 degree increments. The closest point from the ground to the 105.2 dBu contour clears the tower base elevation by 44 meters at 30 degrees as shown in the diagram. The terrain slows away from the base elevation of the tower site in all directions within the 349 meter radius, so no adjustment for base elevation is required. There are no habitable adjacent structures within the 349 meters radius that are more than 44 meters in height as shown in the attached aerial photograph exhibit. The applicant certifies that the proposed three-dimensional interfering contour area will be entirely unpopulated as described in this narrative, as shown in the drawing below and the attached aerial photograph.



Angle (Deg)	Relative Field	ERP (Watts)	105.2 dBu Contour Distance (m)
90	0.001	0.001	<1
85	0.001	0.001	<1
80	0.005	0.002	1.72
75	0.016	0.016	5.59
70	0.035	0.100	12.2
65	0.066	0.357	23.1
60	0.109	0.974	38.0
55	0.166	2.260	57.9
50	0.237	4.606	82.8
45	0.320	8.397	112

Angle (Deg)	Relative Field	ERP (Watts)	105.2 dBu Contour Distance (m)
40	0.414	14.05	144
35	0.514	21.66	181
30	0.617	31.22	215
25	0.718	42.27	250
20	0.810	53.80	283
15	0.889	64.81	311
10	0.949	73.85	332
05	0.987	79.88	345
00	1.000	82.00	349