

Compliance with 47 C.F.R. §73.807(e)(1)

All Authorized second adjacent stations with which the proposed LPFM's contour overlaps their service contour are listed below. The table lists the minimum signal level of the primary station's service contour that reaches the proposed tower site for WYCO-LP.

Facility ID	Call Sign	Contour at Tower F(50,50)
52169	WQXA-FM	105.5 dBu

Minimum protected contour signal level at WYCO-LP's proposed tower site: **105.5 dBu**

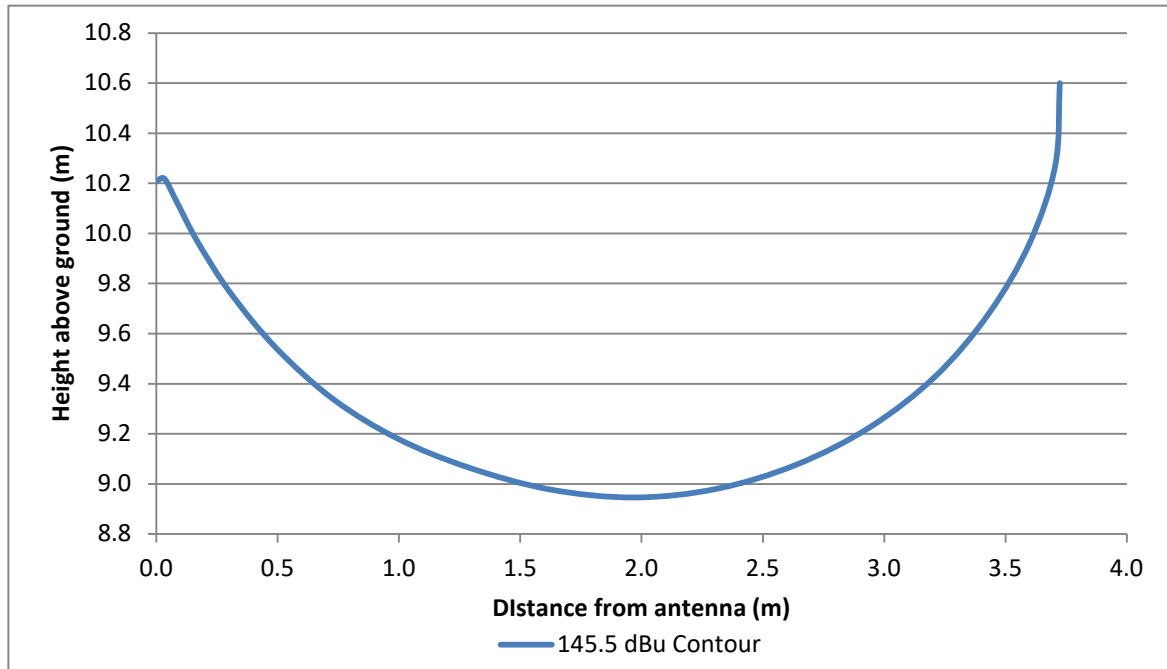
This study will use the minimum contour of 105.5 dBu to represent a worst-case potential interference level. At 40 dB above 105.5 dBu, the LPFM's interference contour is 145.5 dBu. Calculation of distance at this power and signal level requires the use of the free-space calculation due to the distance being less than 1.5 km.

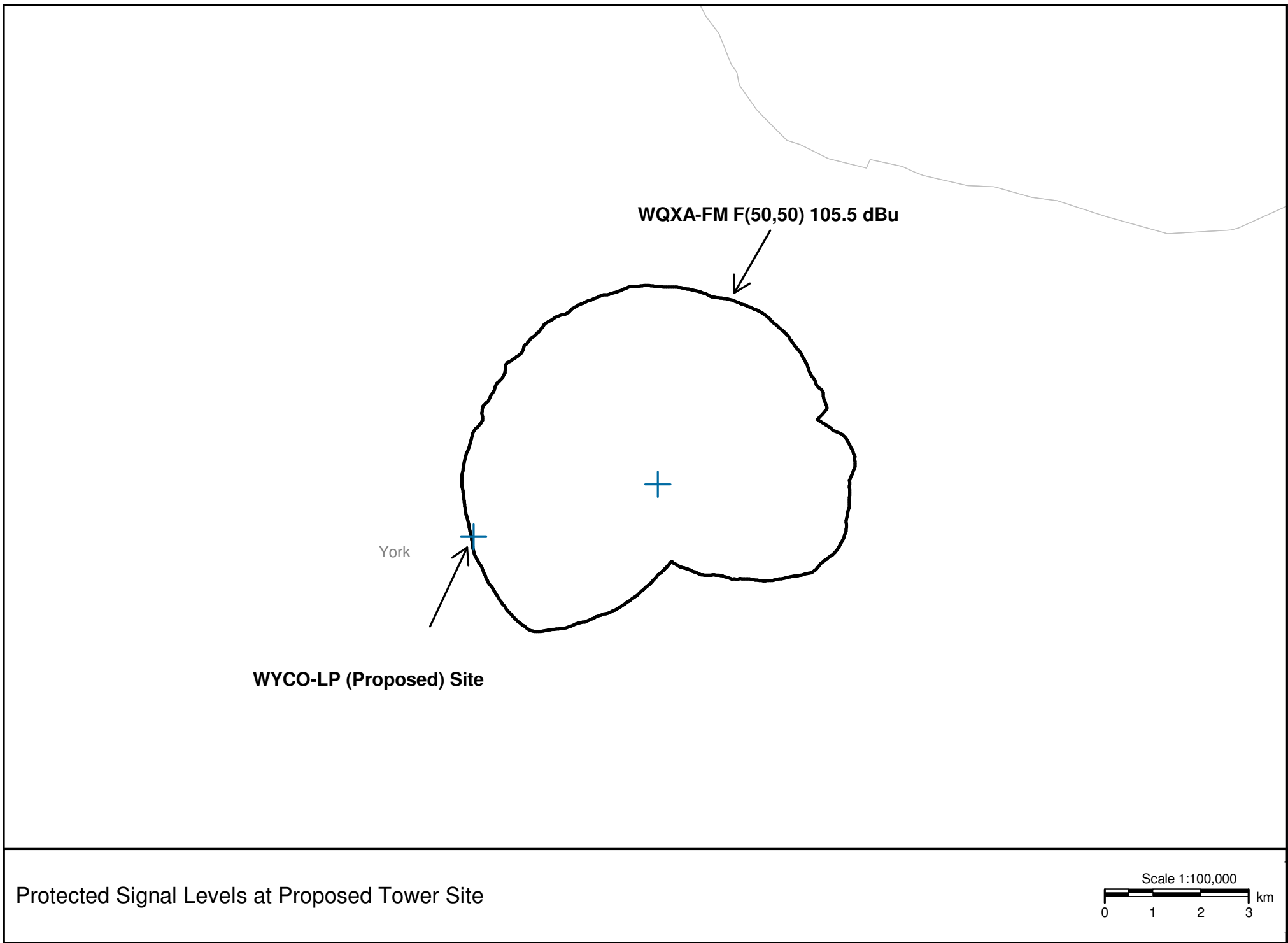
The following table uses the free space formula to calculate the worst-case height above ground level. At 145.5 dBu and 100 watts the interference is 8.9 m above ground. Therefore, no interference is predicted to occur.

§73.807(e)(1) Contour Protection Study WYCO-LP vs. WQXA-FM

Antenna: PSI - PSIFML Single Bay ERP (watts): 100
 Protected Contour at tower - F(50,50): 105.5 dBu RC-AGL (m): 10.6
 Interference Ratio: 40 dB Relative field at Azimuth: 1.000
 Interference Contour - F(50,10): 145.5 dBu ERP (watts) at Azimuth: 100

DEPRESSION ANGLE	RELATIVE FIELD	ERP (WATTS)	dBk	DISTANCE (m)		
				Contour	Horizontal	AGL
0	1.000	100.0	-10.00	3.7	3.7	10.6
5	0.999	99.8	-10.01	3.7	3.7	10.3
10	0.982	96.4	-10.16	3.7	3.6	10.0
15	0.954	91.0	-10.41	3.6	3.4	9.7
20	0.918	84.3	-10.74	3.4	3.2	9.4
25	0.872	76.0	-11.19	3.2	2.9	9.2
30	0.818	66.9	-11.74	3.0	2.6	9.1
35	0.758	57.5	-12.41	2.8	2.3	9.0
40	0.691	47.7	-13.21	2.6	2.0	8.9
45	0.616	37.9	-14.21	2.3	1.6	9.0
50	0.538	28.9	-15.38	2.0	1.3	9.1
55	0.465	21.6	-16.65	1.7	1.0	9.2
60	0.391	15.3	-18.16	1.5	0.7	9.3
65	0.313	9.8	-20.09	1.2	0.5	9.5
70	0.239	5.7	-22.43	0.9	0.3	9.8
75	0.176	3.1	-25.09	0.7	0.2	10.0
80	0.129	1.7	-27.79	0.5	0.1	10.1
85	0.103	1.1	-29.74	0.4	0.0	10.2
90	0.105	1.1	-29.58	0.4	0.0	10.2
WORST CASE HEIGHT AGL (m)						8.9





Protected Signal Levels at Proposed Tower Site