

Non-Interference Compliance Study

Alpha Media Licensee, LLC

K279CI (Facility ID: 156836)

This exhibit demonstrates compliance with all contour overlap and interference protection requirements and demonstrates full compliance with 47 C.F.R. §74.1204.

Applicant certifies that should any actual interference occur it will promptly cease operation in accordance with 47 C.F.R. §74.1203.

Below is a listing of area stations whose contours are less than 25 km clear of the proposed translator.

Callsign	State	City	Channel	ERP (kW)	Class	Status	Distance (km)	Clr (km)
AU9812609	TX	Mount Enterprise	279	6	A	VAC	70.4	-16.2
KMPA	TX	Pittsburg	276	10	C2	LIC	34.9	-11.4
KMHT	TX	Marshall	280	1.85	A	LIC	44	0.01
K279CF	TX	Carthage	279	0.25	D	LIC	67.6	4.4
K280FH	TX	Henderson	280	0.099	D	LIC	45.4	5.9
KKUS	TX	Tyler	281	50	C2	LIC	63	10.4
KZRB	TX	New Boston	278	50	C2	LIC	92.9	12.6
1632706	TX	Tyler	278	0.039	L1	APP	49.7	14.4
KTYL-FM	TX	Tyler	226	82	C1	LIC	39	17.5

The only station that is of concern is KMPA. KMPA is a second adjacent Class A that requires that a minimum of 40 dB separation exist between its service contour and K279CI's interference contour. The following pages demonstrate that this proposal is in compliance with these requirements.

Compliance with 47 C.F.R. §74.1204(d)

All Authorized second adjacent stations with which the proposed translator'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 K279CI.

Facility ID	Call Sign	Contour at Tower F(50,50)
8491	KMPA	65.6 dBu

Minimum protected contour signal level at K279CI's proposed tower site: **65.6 dBu**

This study will use the minimum contour of 65.6 dBu to represent a worst-case potential interference level. At 40 dB above 65.6 dBu, the translator interference contour is 105.6 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.

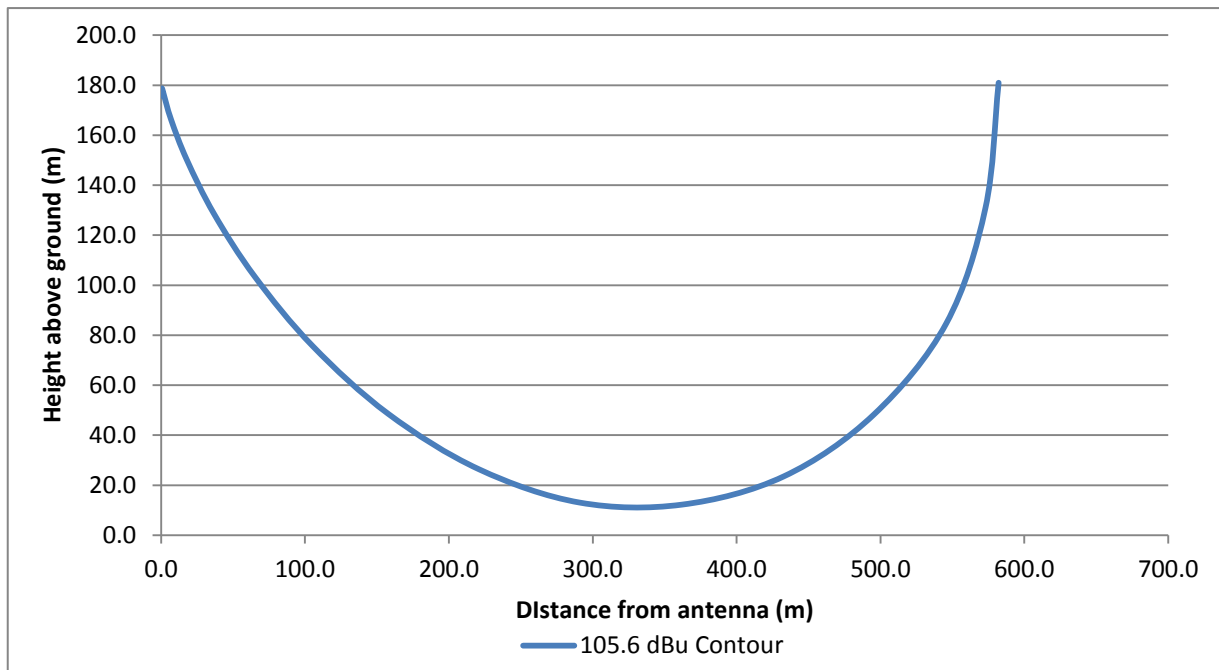
The following table uses the free space formula to calculate the worst-case height above ground level. At 105.6 dBu and 250 watts, the worst-case height is 12.3 meters.

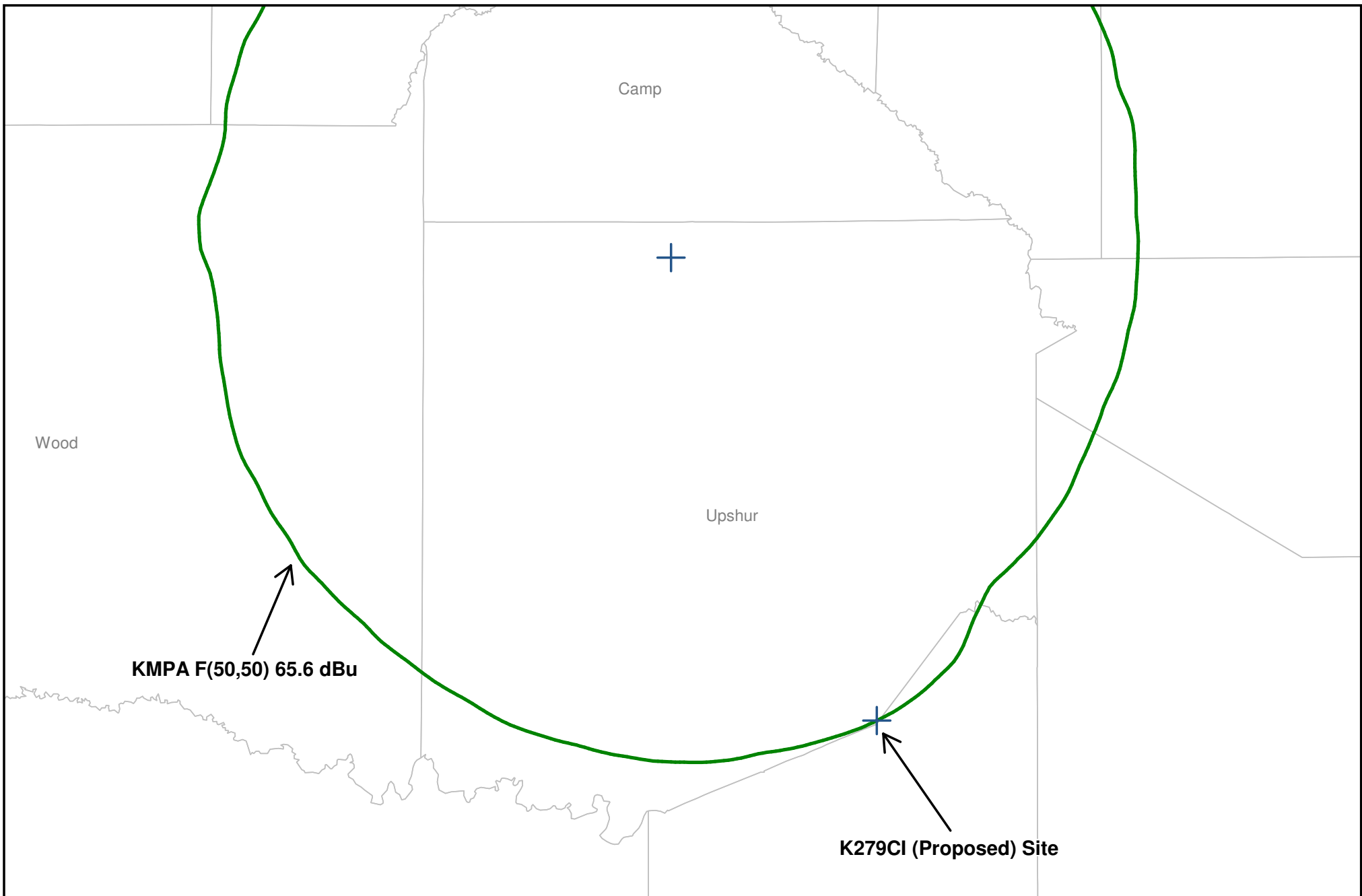
Therefore, no interference is predicted to reach the ground.

§74.1204(d) Contour Protection Study K279CI vs. KMPA

Antenna: Nicom BKG 77 - 2 Bay/Half-Wave ERP (watts): 250
 Protected Contour at tower - F(50,50): 65.6 dBu RC-AGL (m): 181
 Interference Ratio: 40 dB Relative field at Azimuth: 1.000
 Interference Contour - F(50,10): 105.6 dBu ERP (watts) at Azimuth: 250

DEPRESSION ANGLE	RELATIVE FIELD	ERP (WATTS)	dBk	DISTANCE (m)		
				Contour	Horizontal	AGL
0	1.000	250.0	-6.02	582.1	582.1	181.0
5	0.988	244.0	-6.13	575.1	572.9	130.9
10	0.952	226.6	-6.45	554.1	545.7	84.8
15	0.881	194.0	-7.12	512.8	495.3	48.3
20	0.791	156.4	-8.06	460.4	432.6	23.5
25	0.686	117.6	-9.29	399.3	361.9	12.3
30	0.577	83.2	-10.80	335.9	290.9	13.1
35	0.463	53.6	-12.71	269.5	220.8	26.4
40	0.354	31.3	-15.04	206.1	157.8	48.6
45	0.256	16.4	-17.86	149.0	105.4	75.6
50	0.174	7.6	-21.21	101.3	65.1	103.4
55	0.110	3.0	-25.19	64.0	36.7	128.6
60	0.061	0.9	-30.31	35.5	17.8	150.3
65	0.028	0.2	-37.08	16.3	6.9	166.2
70	0.007	0.0	-49.12	4.1	1.4	177.2
75	0.004	0.0	-53.98	2.3	0.6	178.8
80	0.008	0.0	-47.96	4.7	0.8	176.4
85	0.008	0.0	-47.96	4.7	0.4	176.4
90	0.009	0.0	-46.94	5.2	0.0	175.8
WORST CASE HEIGHT AGL (m)						12.3





Protected Signal Levels at Proposed Tower Site

