

Non-Interference Compliance Study

Glory Communications, Inc.

W286CT (Facility ID: 147585)

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)
WNOK	SC	Columbia	284	90	C1	LIC	35.86	-38.6
W288CX	SC	Columbia	288	0.25	D	LIC	21.56	1.6
WGFG	SC	Branchville	287	12.5	C3	LIC	55.28	1.8
WWNQ	SC	Forest Acres	232 (I.F.)	2.55	A	LIC	15.74	6.2
WSCG	GA	Augusta	289	100	C0	LIC	84.31	7.9

The only station that is of concern is WNOK. WNOK is a second adjacent Class C1 that requires that a minimum of 40 dB separation exist between its service contour and W286CT'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 W286CT.

Facility ID	Call Sign	Contour at Tower F(50,50)
19472	WNOK	77.7 dBu

Minimum protected contour signal level at W286CT's proposed tower site: **77.7 dBu**

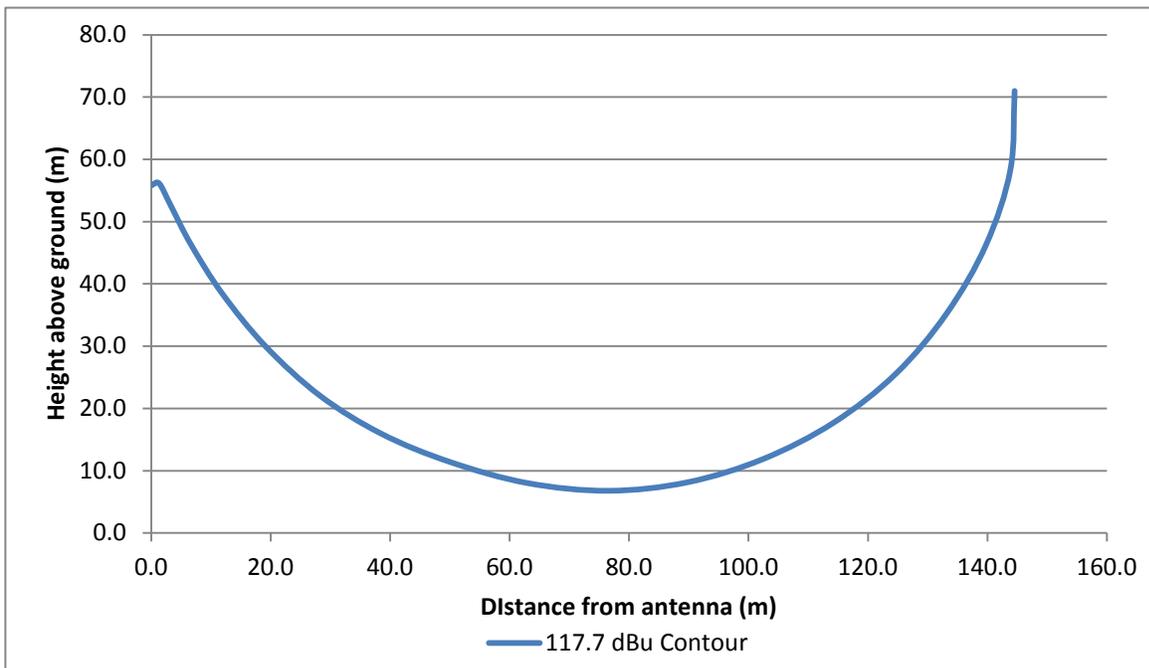
This study will use the minimum contour of 77.7 dBu to represent a worst-case potential interference level. At 40 dB above 77.7 dBu, the translator interference contour is 117.7 dBu. Calculation of distance at this power and signal level requires the use of the free-space calculation due to the distance being less than 1.5 km.

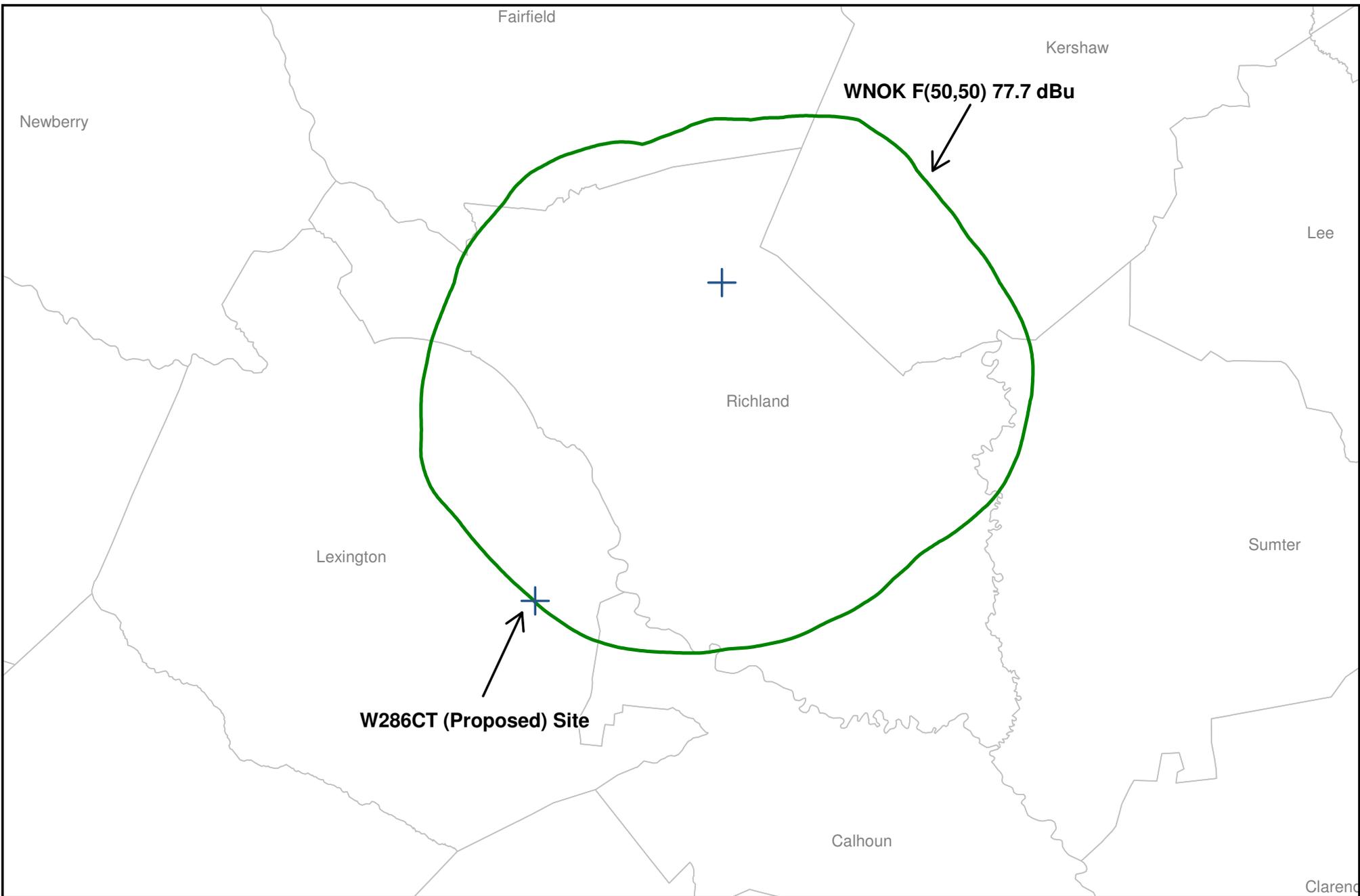
The following table uses the free space formula to calculate the worst-case height above ground level. At 117.7 dBu and 250 watts, the worst-case height is 6.8 meters. Therefore, no interference is predicted to reach the ground.

§74.1204(d) Contour Protection Study W286CT vs. WNOK

Antenna: Nicom BKG 77 - Single Bay ERP (watts): 250
 Protected Contour at tower - F(50,50): 77.7 dBu RC-AGL (m): 71
 Interference Ratio: 40 dB Relative field at Azimuth: 1.000
 Interference Contour - F(50,10): 117.7 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	144.5	144.5	71.0
5	0.999	249.5	-6.03	144.4	143.8	58.4
10	0.982	241.1	-6.18	141.9	139.8	46.4
15	0.954	227.5	-6.43	137.9	133.2	35.3
20	0.918	210.7	-6.76	132.7	124.7	25.6
25	0.872	190.1	-7.21	126.0	114.2	17.7
30	0.818	167.3	-7.77	118.2	102.4	11.9
35	0.758	143.6	-8.43	109.6	89.7	8.2
40	0.691	119.4	-9.23	99.9	76.5	6.8
45	0.616	94.9	-10.23	89.0	63.0	8.0
50	0.538	72.4	-11.40	77.8	50.0	11.4
55	0.465	54.1	-12.67	67.2	38.5	15.9
60	0.391	38.2	-14.18	56.5	28.3	22.1
65	0.313	24.5	-16.11	45.2	19.1	30.0
70	0.239	14.3	-18.45	34.5	11.8	38.5
75	0.176	7.7	-21.11	25.4	6.6	46.4
80	0.129	4.2	-23.81	18.6	3.2	52.6
85	0.103	2.7	-25.76	14.9	1.3	56.2
90	0.105	2.8	-25.60	15.2	0.0	55.8
WORST CASE HEIGHT AGL (m)						6.8





Protected Signal Levels at Proposed Tower Site

