

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.

This study uses the NED 3 second terrain dataset.

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	19.89	-53.27
W286CT*	SC	Columbia	286	0.075	D	LIC	0	-29.28
W288CX	SC	Columbia	288	0.25	D	LIC	5.54	-13.85
WGFJ	SC	Cross Hill	286	3.6	A	CP	84.19	12.22
WGFG	SC	Branchville	287	12.5	C3	LIC	65.49	12.33
WLUB	GA	Augusta	289	100	C0	LIC	98.82	23.18

*Existing W286CT License

The only stations that are of concern are WNOK and W288CX. 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. W288CX is a second adjacent Class D 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	88.2 dBu
139935	W288CX	80.4 dBu

Minimum protected contour signal level at W286CT's proposed tower site: **80.4 dBu**

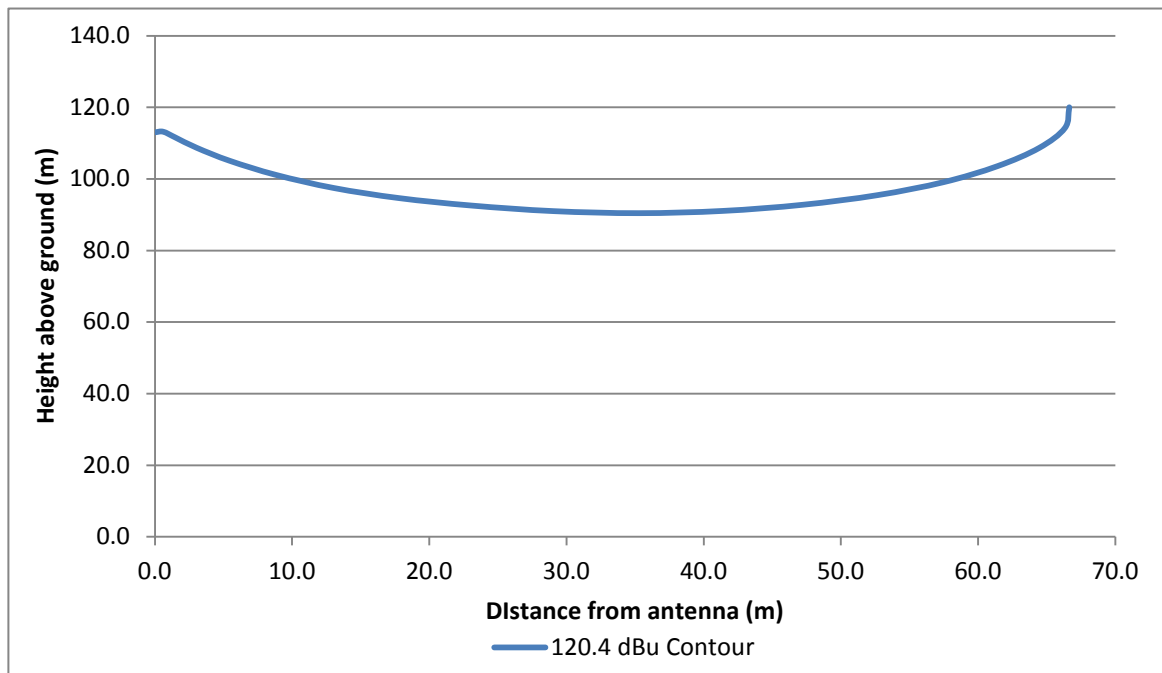
This study will use the minimum contour of 80.4 dBu to represent a worst-case potential interference level. At 40 dB above 80.4 dBu, the translator interference contour is 120.4 dBu. Calculation of distance at this power and signal level requires the use of the free-space calculation due to the distance being less than 1.5 km.

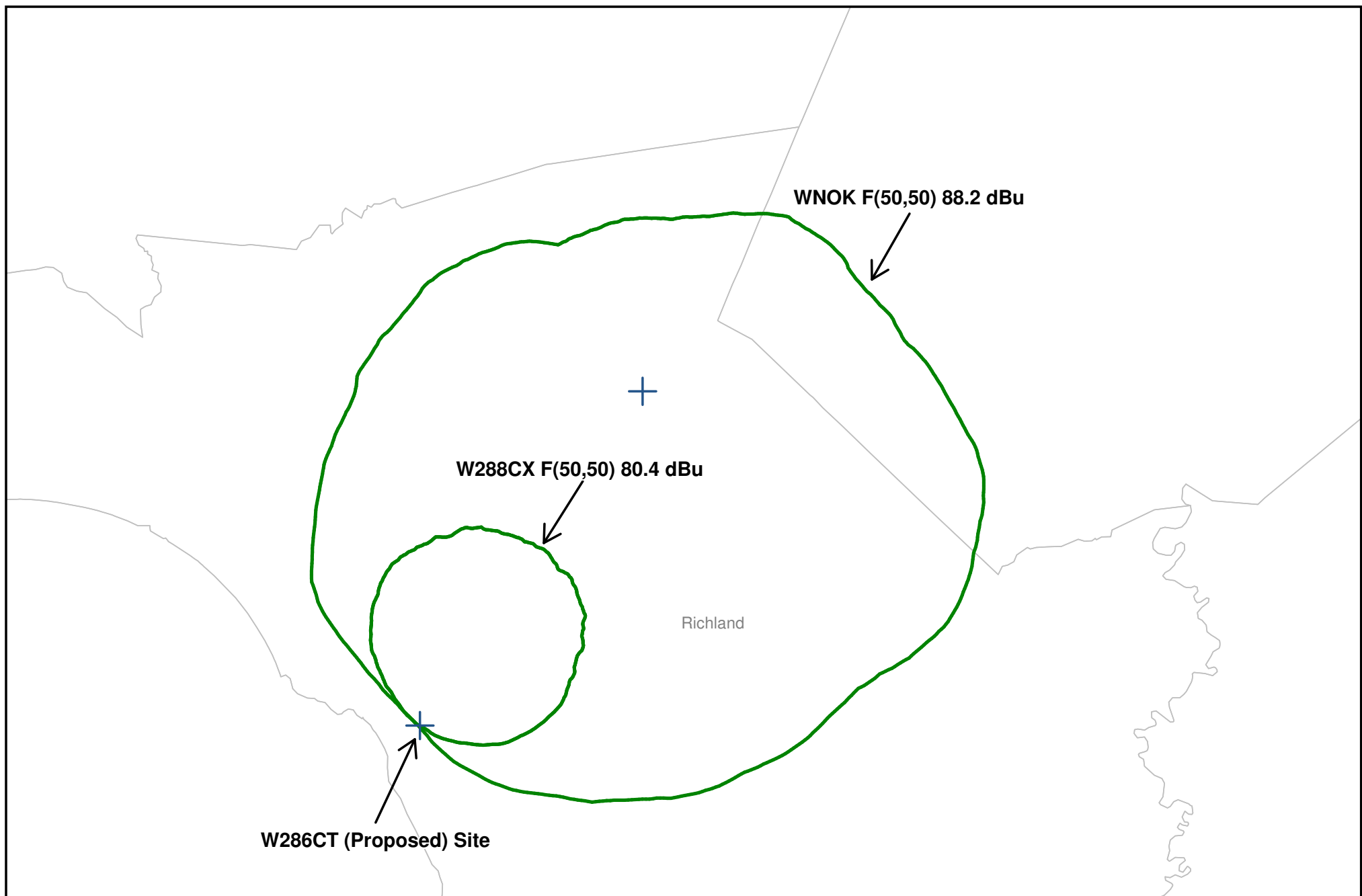
The following table uses the free space formula to calculate the worst-case height above ground level. At 120.4 dBu and 99 watts, the worst-case height is 90.4 meters. Therefore, no interference is predicted to reach the ground.

§74.1204(d) Contour Protection Study W286CT vs. W288CX

Antenna: Nicom BKG 77 - Single Bay ERP (watts): 99
 Protected Contour at tower - F(50,50): 80.4 dBu RC-AGL (m): 120
 Interference Ratio: 40 dB Relative field at Azimuth: 1.000
 Interference Contour - F(50,10): 120.4 dBu ERP (watts) at Azimuth: 99

DEPRESSION ANGLE	RELATIVE FIELD	ERP (WATTS)	dBk	DISTANCE (m)		
				Contour	Horizontal	AGL
0	1.000	99.0	-10.04	66.7	66.7	120.0
5	0.999	98.8	-10.05	66.6	66.3	114.2
10	0.982	95.5	-10.20	65.5	64.5	108.6
15	0.954	90.1	-10.45	63.6	61.4	103.5
20	0.918	83.4	-10.79	61.2	57.5	99.1
25	0.872	75.3	-11.23	58.1	52.7	95.4
30	0.818	66.2	-11.79	54.5	47.2	92.7
35	0.758	56.9	-12.45	50.5	41.4	91.0
40	0.691	47.3	-13.25	46.1	35.3	90.4
45	0.616	37.6	-14.25	41.1	29.0	91.0
50	0.538	28.7	-15.43	35.9	23.0	92.5
55	0.465	21.4	-16.69	31.0	17.8	94.6
60	0.391	15.1	-18.20	26.1	13.0	97.4
65	0.313	9.7	-20.13	20.9	8.8	101.1
70	0.239	5.7	-22.48	15.9	5.4	105.0
75	0.176	3.1	-25.13	11.7	3.0	108.7
80	0.129	1.6	-27.83	8.6	1.5	111.5
85	0.103	1.1	-29.79	6.9	0.6	113.2
90	0.105	1.1	-29.62	7.0	0.0	113.0
WORST CASE HEIGHT AGL (m)						90.4





Protected Signal Levels at Proposed Tower Site

