

Non-Interference Compliance Study

Glory Communications, Inc.

NEW (Facility ID: 201295)

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)
NEW*	SC	Scranton	254	0.25	D	APP	0	-66.0
WWKT-FM	SC	Kingstree	257	11	C3	LIC	30.34	-10.2
WDAI	SC	Pawleys Island	253	6.1	C3	LIC	67.45	4.1
WWIK	SC	Mcclellanville	255	50	C2	LIC	80.98	5.13
WBZF	SC	Hartsville	253	6	A	LIC	73.12	18.8

*Note: Short form application

The only station that is of concern is WWKT-FM. WWKT-FM is a second adjacent Class C3 that requires that a minimum of 40 dB separation exist between its service contour and the proposed 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 and third 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 the proposed translator.

Facility ID	Call Sign	Contour at Tower F(50,50)
15836	WWKT-FM	64.8 dBu

Minimum protected contour signal level at the proposed tower site: **64.8 dBu**

This study will use the minimum contour of 64.8 dBu to represent a worst-case potential interference level. At 40 dB above 64.8 dBu, the translator interference contour is 104.8 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.

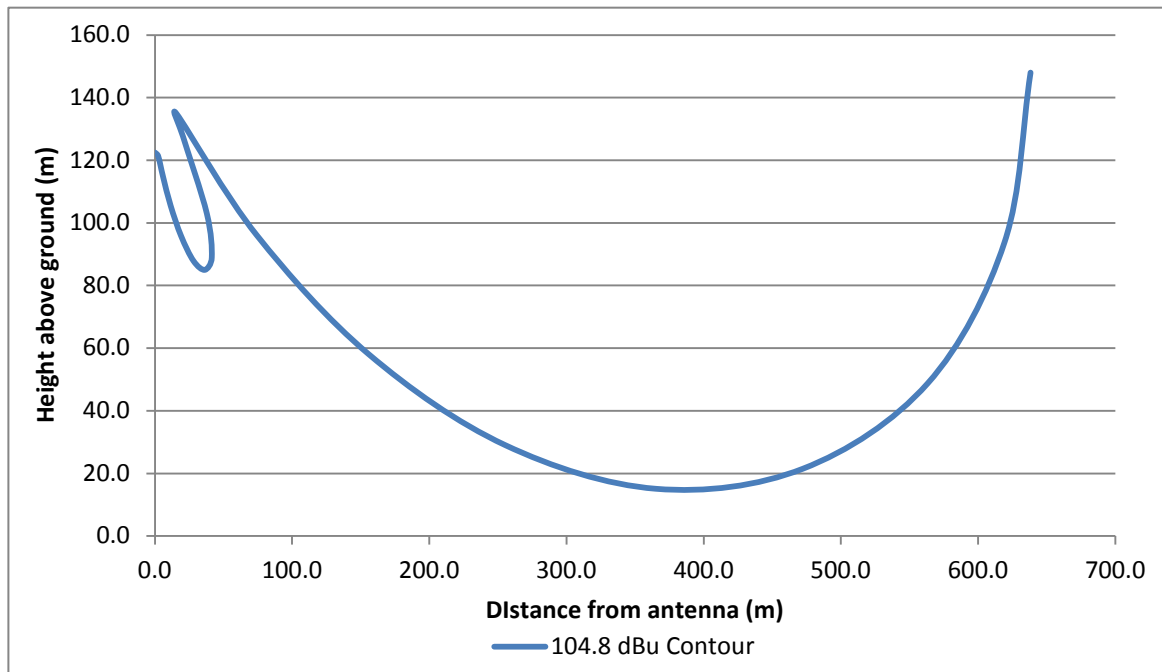
The following table uses the free space formula to calculate the worst-case height above ground level. At 104.8 dBu and 250 watts, the worst-case height is 15.1 meters.

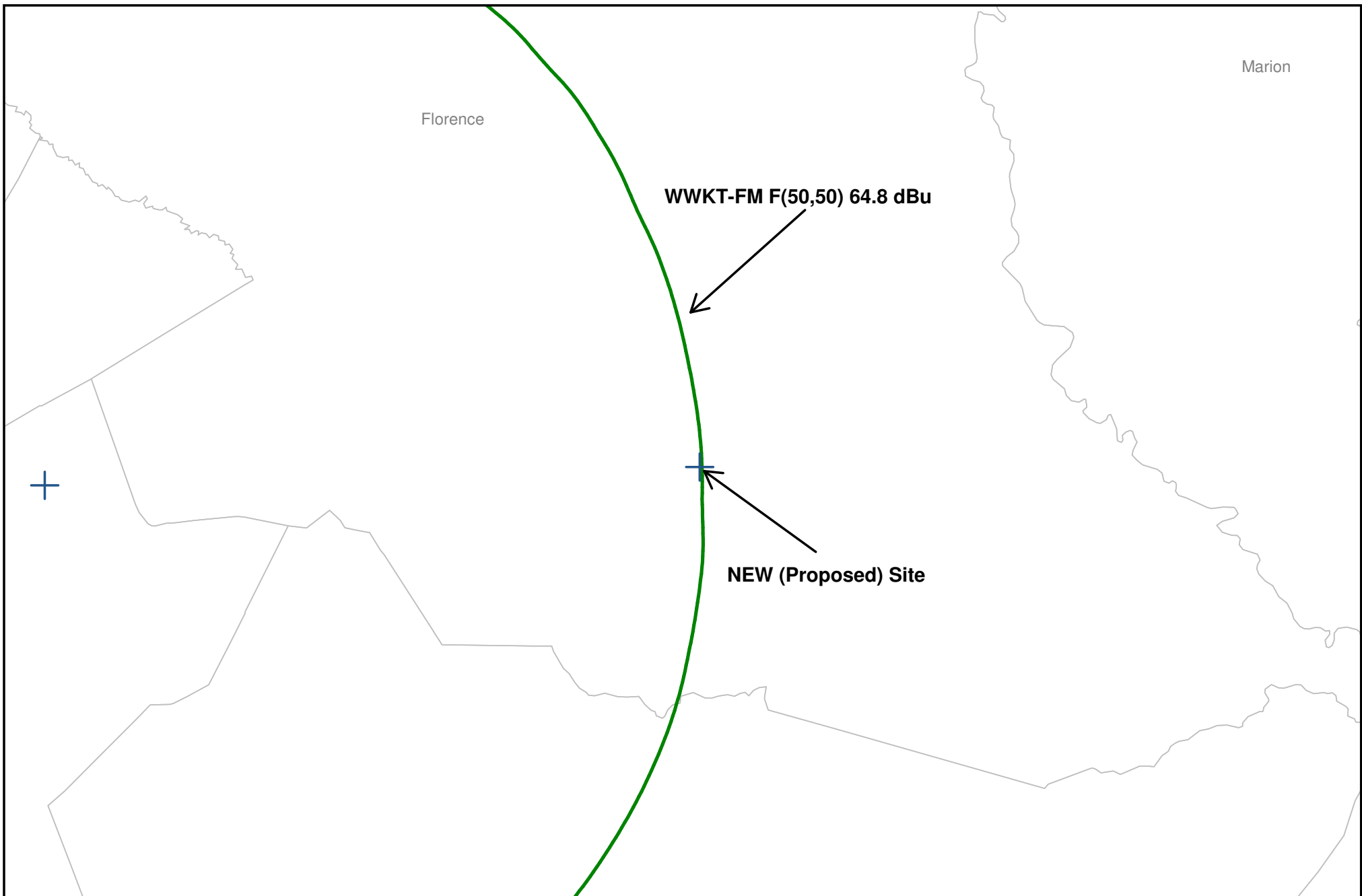
Therefore, no interference is predicted to reach the ground.

§74.1204(d) Contour Protection Study New vs. WWKT-FM

Antenna: Nicom BKG 77 - 3 Bay/Half-Wave ERP (watts): 250
 Protected Contour at tower - F(50,50): 64.8 dBu RC-AGL (m): 148
 Interference Ratio: 40 dB Relative field at Azimuth: 1.000
 Interference Contour - F(50,10): 104.8 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	638.2	638.2	148.0
5	0.974	237.2	-6.25	621.6	619.3	93.8
10	0.896	200.7	-6.97	571.8	563.2	48.7
15	0.766	146.7	-8.34	488.9	472.2	21.5
20	0.609	92.7	-10.33	388.7	365.2	15.1
25	0.441	48.6	-13.13	281.5	255.1	29.1
30	0.282	19.9	-17.02	180.0	155.9	58.0
35	0.142	5.0	-22.97	90.6	74.2	96.0
40	0.032	0.3	-35.92	20.4	15.6	134.9
45	0.045	0.5	-32.96	28.7	20.3	127.7
50	0.092	2.1	-26.74	58.7	37.7	103.0
55	0.113	3.2	-24.96	72.1	41.4	88.9
60	0.114	3.2	-24.88	72.8	36.4	85.0
65	0.104	2.7	-25.68	66.4	28.1	87.8
70	0.087	1.9	-27.23	55.5	19.0	95.8
75	0.069	1.2	-29.24	44.0	11.4	105.5
80	0.053	0.7	-31.54	33.8	5.9	114.7
85	0.042	0.4	-33.56	26.8	2.3	121.3
90	0.040	0.4	-33.98	25.5	0.0	122.5
WORST CASE HEIGHT AGL (m)						15.1





Protected Signal Levels at Proposed Tower Site

