

**Technical Exhibit FCC Form 349  
BANANA JACK MURPHY PRODUCTIONS, LLC  
Long Form Application  
Facility ID# 202481  
.25 kW Horizontal and Vertical  
Loris, SC**

**Purpose Of Application**

BANANA JACK MURPHY PRODUCTIONS, LLC ("Banana Jack") licensee of WLSC (AM) FID# 29541 hereby tenders for filing the required long form application for the singleton translator.

**Interference To Other Facilities**

This proposed facility complies with 47CFR 74.1204 of the Commission's rules for interference to other facilities. There is no overlap of the proposed facility's interfering contours with the protected contours of any other application or facility with the exception of WRXZ 296C2 Briarcliff Acre, SC FID# 66138. With the proposed single bay crossed dipole antenna at 47 meters above ground level, there is no actual interference. WRXC has a 85.3 dBu 50-50 contour at the proposed location. The translator 125.3 dBu 50-10 contour does not reach ground level. The closest it comes is 15.7 meters above ground level. This level occurs at 31 meters from the tower base. The existing 48 meter tower for the proposed new site is an existing AM tower. Banana Jack acknowledges that operation of this facility will cease if there are any complaints of interference. See the following pages for demonstration of no interference and compliance with 74.1204.

**Environmental**

The proposed location is an existing tower. The antenna proposed above was studied using the OET FM model program. Using this program, with the single bay EPA Type 2 antenna mounted at 47 meters above ground level, the worst-case power density at 2 meters above ground level was found to be 2.269 microwatts/cm<sup>2</sup>, which occurs 46 meters from the base of the support structure. This is 1.134% of the maximum level for the general population, uncontrolled exposure level, and exempts the facility from further study, as it is an insignificant contributor.

Proposed WLSC  
 Banana Jack Murphy Productions, Llc  
 CH# 294D - 106.7 MHz, Pwr= 0.25 kW, HAAT= 0.0 M, COR= 79 M  
 Average Protected F(50-50)= 7.09 km  
 Omni-directional  
 REFERENCE 34 02 04.0 N.  
 78 52 58.0 W.  
 DISPLAY DATES  
 DATA 05-04-18  
 SEARCH 05-05-18

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
294D Loris	1776822	APP _C_	SC	0.0 0.0	0.00 BNPFT20180130ABF	34 02 04.0 78 52 58.0	0.250	0.00 79	0.00 Banana Jack Murphy Product	64.5R	-64.5M
296C2 Briarcliff Acres	WRXZ	LIC _CN	SC	215.0 34.9	13.18 BMLH19990825KB	33 56 14.0 78 57 53.0	50.000 150	5.7 165	50.5 Amfm Radio Licenses, L.l.c	-2.8	-38.4*
293C2 Georgetown	WLFF	LIC _CN	SC	199.6 19.4	70.24 BLH19880726KA	33 26 20.0 79 08 11.0	50.000 150	77.8 151	51.9 Cumulus Licensing Llc	-18.0*	3.8
294A Carolina Beach	WFBT	CP ZCX	NC	86.3 266.8	91.76 BPH20180226ABF	34 05 03.4 77 53 18.1	5.300 100	83.9 102	26.8 Carolina Christian Radio,	-2.3	30.7
294C1 Orangeburg	WTCB	LIC DCN	SC	262.1 80.9	190.12 BMLH19981203KA	33 46 52.0 80 55 14.0	100.000 240	156.6 304	64.9 Radio License Holding Cbc,	24.7	95.1
292A Bolivia	WUDE	LIC NCX	NC	88.4 268.7	56.47 BLH20130918AEW	34 02 50.0 78 16 12.0	6.000 93	2.6 103	26.4 Davis Media, Llc	43.7	29.0
241C2 Forestbrook	WKZQ-FM	LIC NCX	SC	197.3 17.2	51.54 BLH20081007ACQ	33 35 27.0 79 02 55.0	8.500 265	17.9 267	5.5 Dick Broadcasting Company,	14.5R	37.0M
295C2 Southern Pines	WMGU	LIC ZCX	NC	342.1 161.9	112.65 BLH20090330AIO	34 59 53.0 79 15 47.0	50.000 143	63.4 226	42.8 Cumulus Licensing Llc	39.9	55.5
294A Carolina Beach	WFBT	LIC ZCX	NC	85.0 265.5	84.20 BLH20140226AEW	34 05 51.7 77 58 18.2	1.800 100	31.3 106	9.4 Carolina Christian Radio,	42.7	40.8

Terrain database is NED 03 SEC , R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
 In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.  
 All separation margins (if shown) include rounding.  
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)  
 "\*"affixed to 'IN' or 'OUT' values = site inside restricted contour.  
 Reference station has protected zone issue: AM tower

1776822 Loris, SC, Showing Protection to WRXZ  
 74.1204(d) Study - Using NED 03 SEC Terrain Database  
 Translator Maximum Licensed ERP = 0.25  
 Translator Antenna Height AG = 47 Meters  
 1776822 Antenna Model = SWRFMEC\_1\_98\_MHZ\_MIDBAND

Protected Station's Contour = 85.32272 dBu  
 Translator's full Interference contour 125.32272

Review Azimuth = 0 Degrees True  
 Relative Field on the horizon at Review Azimuth = 1.000  
 Translator ERP on the horizon at Review Azimuth = 0.25 kW  
 Distance between stations = 13.2 km  
 Protected Station= WRXZ, 50 kW, 165 M Meters COR AMSL

Depression Angle From Horizon (Deg)	Vertical Relative Field	Horizontal Relative Field	ERP (kw)	Dist to IX Contour Along Dep. Angle (m)	Dist to IX Contour From Tower Base (m)	Height IX Above Ground (m)
00.00	1.0	1.0	0.2500	060.0944	060.0944	047.000
05.00	0.997	1.0	0.2485	059.9141	059.6861	041.778
10.00	0.986	1.0	0.2430	059.2531	058.3529	036.711
15.00	0.969	1.0	0.2347	058.2315	056.2473	031.929
20.00	0.946	1.0	0.2237	056.8493	053.4209	027.556
25.00	0.916	1.0	0.2098	055.0465	049.8890	023.736
30.00	0.879	1.0	0.1932	052.8230	045.7460	020.589
35.00	0.837	1.0	0.1751	050.2990	041.2025	018.150
40.00	0.789	1.0	0.1556	047.4145	036.3216	016.523
45.00	0.736	1.0	0.1354	044.2295	031.2750	015.725
50.00	0.679	1.0	0.1153	040.8041	026.2284	015.742
55.00	0.616	1.0	0.0949	037.0182	021.2327	016.677
60.00	0.55	1.0	0.0756	033.0519	016.5260	018.376
65.00	0.48	1.0	0.0576	028.8453	012.1906	020.857
70.00	0.408	1.0	0.0416	024.5185	008.3858	023.960
75.00	0.333	1.0	0.0277	020.0114	005.1793	027.670
80.00	0.241	1.0	0.0145	014.4828	002.5149	032.737
85.00	0.178	1.0	0.0079	010.6968	000.9323	036.344
90.00	0.1	1.0	0.0025	006.0094	000.0000	040.991