

**Technical Exhibit
RACY PROPERTIES, LLC
KRVA-FM
Channel 296A
Facility ID#54731
6kW Horizontal & Vertical**

Purpose of Application

Racy Properties, LLC the licensee of KRVA-FM hereby submits this replacement application for BPH20190916AAG to replace the 12 month old application in CDBS. The attached pages contain the original technical exhibit for this application.

**Technical Exhibit Form 301
RACY PROPERTIES, LLC
KRVA-FM
Channel 296A
Facility ID# 54731
6 kW Horizontal & Vertical
Campbell, TX**

Purpose Of Application

RACY PROPERTIES, LLC, ("Racy") the licensee of KRVA-FM, FID# 54731 submits this instant application for a minor change to the licensed facility. This proposal is to move to a new tower at N 33° 07' 54.1" / W 95° 46' 42.1" NAD 27 at 6 kW horizontal and vertical with height above average terrain of 100 meters.

Spacing Requirements

The proposed site specified is fully spaced to all other full power licenses, applications, and allotments. See exhibit in following pages for spacing details.

Community Coverage

The standard 50-50 method of predicting coverage does not demonstrate 70 dBu coverage to the community of Campbell. The entire community is encompassed by the 60 dBu 50-50 contour. Racy believes that a supplemental showing and alternate method of coverage prediction is appropriate to demonstrate coverage to the community of license and compliance with 73.315. A FM PTP V2 propagation model was utilized using the V-soft Probe 4 computer program utilizing both 03 and 30 second terrain data. The bearings toward Campbell are from 270 to 290 degrees. The average increase of the 70 dBu PTP contour is 57.7%. As this increase is over 30%, that alone justifies the utilization of a supplemental showing and alternate prediction method to show coverage to the community and obviates the need for any further demonstration of terrain variation or delta h study¹. A tabulation of the comparison of coverage along these radials is as follows:

Bearing (deg.)	70 dBu 50-50 Distance (k)	70 dBu PTP (k)	Increase (%)	HAAT (m)
270	14.62	22.1	51.1	83.8
280	14.83	20.5	38.2	86.1
290	15.16	27.9	84	89.5

The supplemental showing demonstrates 100% coverage of the population and area of the community of license. See the following pages.

¹FCC 08-139, May 28,2008 and DA 10-1760, September 16 2010

Environmental

The proposed antenna location is a new tower. It has FAA approval and an application for ASR is ready to submit. The proposed antenna was studied using the OET FM model program. Using this program, with the EPA Type 2 four bay full wave antenna, mounted at 87 meters above ground level, the worst-case power density at 2 meters above ground level was found to be 7.39 microwatts/cm². This level occurs at 33 meters from the base of the support structure. This is 3.6 % of the maximum level for the general population, uncontrolled exposure level, and exempts the facility from further study, as it is an insignificant contributor. There are no other broadcast facilities proposed for this structure.

Racy Properties, Llc

REFERENCE		DISPLAY DATES
33 07 54.1 N.	CLASS = A	DATA 09-12-19
95 46 42.1 W.	Current Spacings to 3rd Adj.	SEARCH 09-13-19
----- Channel 296 - 107.1 MHz -----		

Call	Channel	Location	Azi	Dist	FCC	Margin
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KRVA-FM	LIC 296A	Campbell	TX 102.5	3.45	114.5	-111.1
KESS	LIC-N 296C1	Benbrook	TX 253.0	201.44	199.5	1.9
KISX	LIC 297C2	Whitehouse	TX 149.8	108.13	105.5	2.6
KQDR	LIC 297A	Savoy	TX 318.1	86.39	71.5	14.9
KPLT-FM	LIC 299C2	Paris	TX 26.1	76.32	54.5	21.8
KAZE	LIC-N 295C3	Ore City	TX 113.7	118.72	88.5	30.2
KOOI	LIC 293C	Jacksonville	TX 159.8	126.47	94.5	32.0
KRVF	LIC 295C3	Kerens	TX 206.2	127.08	88.5	38.6
KYNZ	LIC-Z 296C3	Lone Grove	OK 315.9	181.58	141.5	40.1
KTFS-FM	LIC 296A	Texarkana	AR 77.4	157.99	114.5	43.5

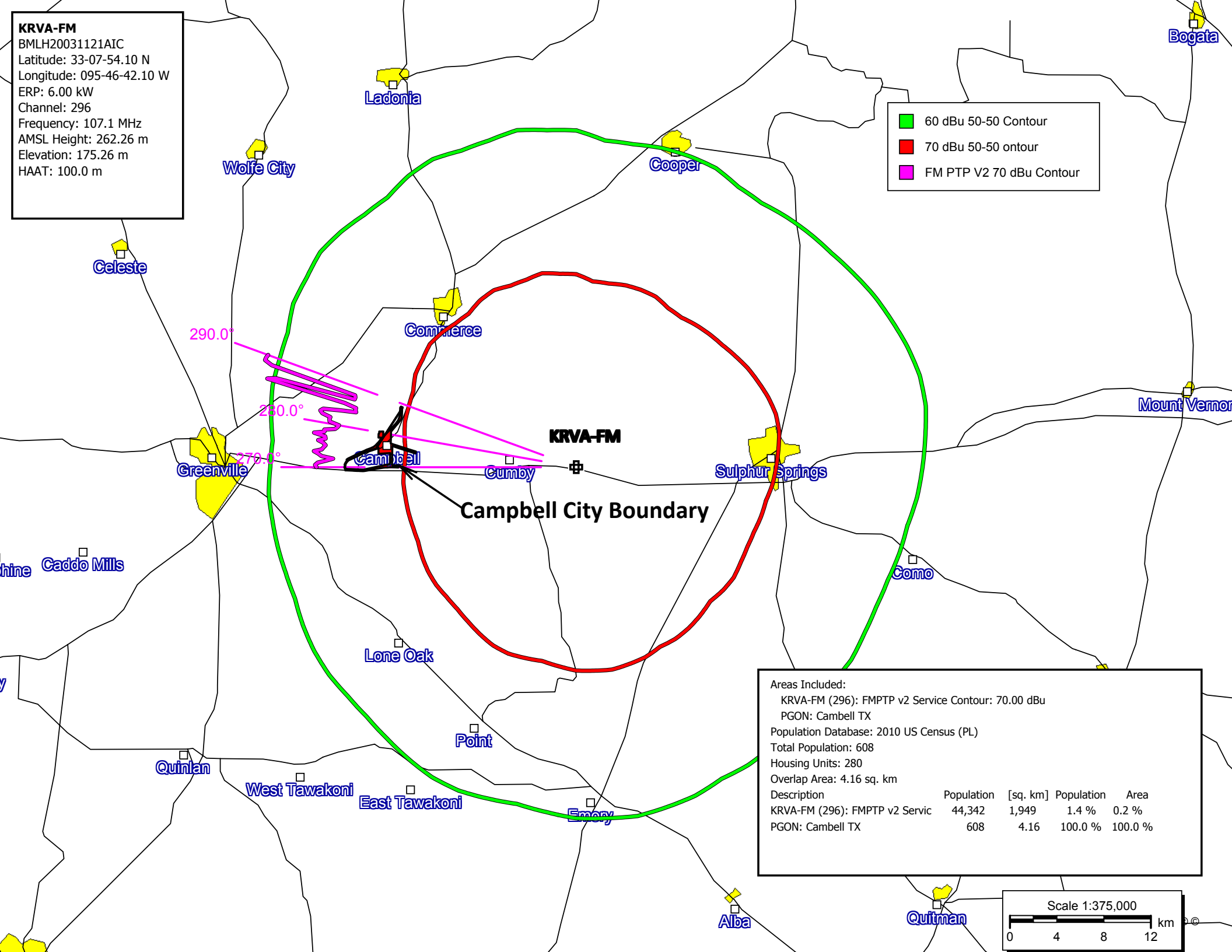
All separation margins include rounding

KRVA-FM
BMLH20031121AIC
Latitude: 33-07-54.10 N
Longitude: 095-46-42.10 W
ERP: 6.00 kW
Channel: 296
Frequency: 107.1 MHz
AMSL Height: 262.26 m
Elevation: 175.26 m
HAAT: 100.0 m

60 dBu 50-50 Contour

70 dBu 50-50 ontour

FM PTP V2 70 dBu Contour



Areas Included:

KRVA-FM (296): FMPTP v2 Service Contour: 70.00 dBu
PGON: Campbell TX
Population Database: 2010 US Census (PL)
Total Population: 608
Housing Units: 280
Overlap Area: 4.16 sq. km

Description	Population	[sq. km]	Population	Area
KRVA-FM (296): FMPTP v2 Serv	44,342	1,949	1.4 %	0.2 %
PGON: Campbell TX	608	4.16	100.0 %	100.0 %

