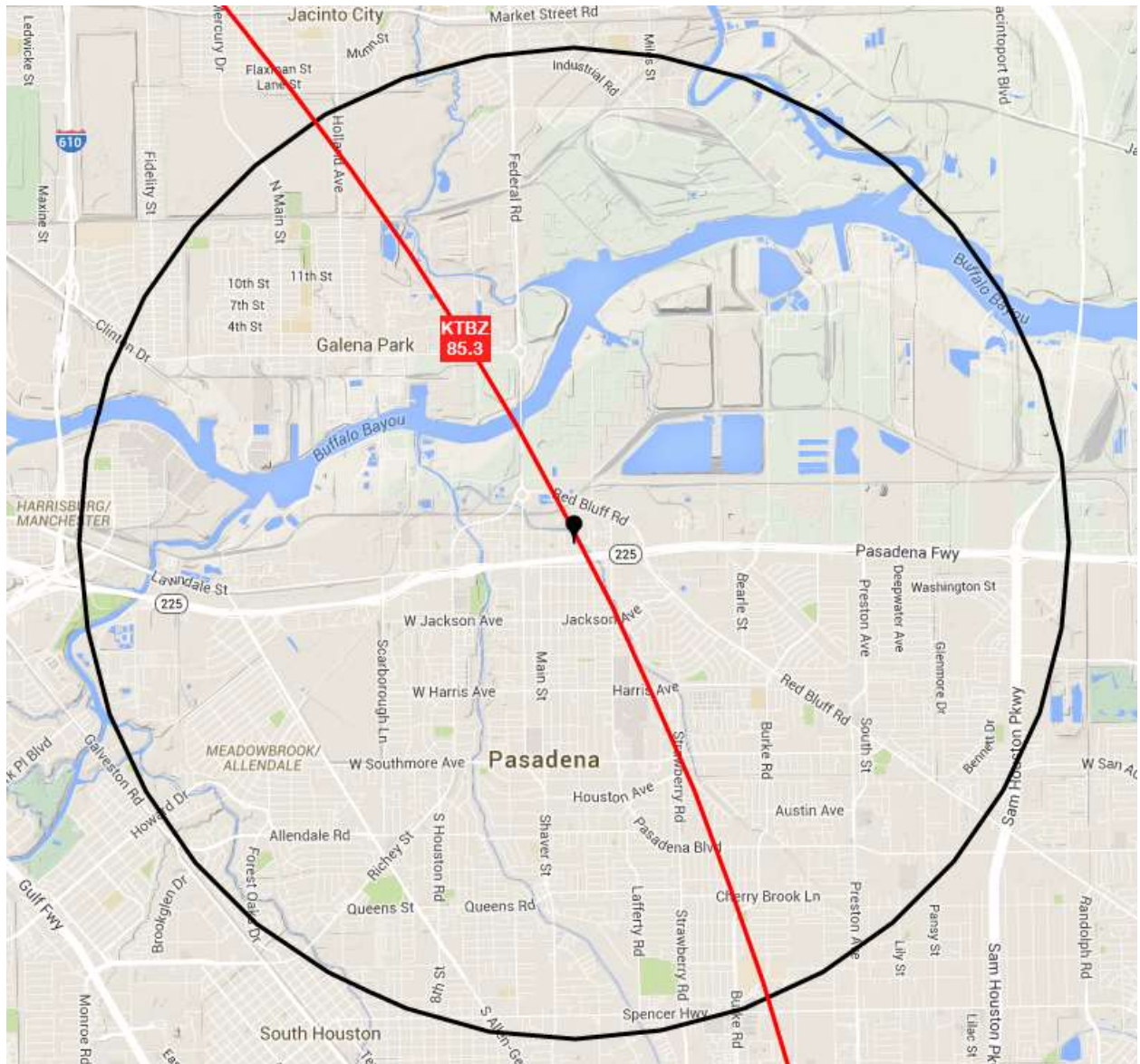




REC Networks
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Amendment for NEW-LP
PASADENA, TX
CENTRO CRISTIANO NUEVO AMANCER A.D.
BNPL-20131023ADH

PROPOSED 60dBu F(50,50) SERVICE CONTOUR



HOUSTON, TX – Chan 235L1 (94.9 MHz) ~ ERP 0.100 kW
Elev: 7 meters ~ RCAGL: 25 meters ~ RCAMSL: 32 meters ~ HAAT: 23 meters
Overall tower height: 25 meters – ASR: None (no nearby airports)
NAD27 Latitude: 29° 42' 46.6" NL – Longitude: 95° 12' 19.3" WL

R E C NETWORKS
CHANNEL REPORT

NAD27 LATITUDE: 29 - 42' 46.6" - LONGITUDE: 95 - 12' 19.3"
CHANNEL: 235 - CLASS: LPFM(LP-100)

CHAN	FREQ	CALL	LOCATION	CLS	DIST	REQ	CLEAR	BEAR
232	94.3	KYKM	YOAKUM	TX A	196.7	0.0	196.7	258.6
		: KREMLING ENTERPRISES, INC.						
232	94.3			A	197.9	0.0	197.9	261.3
		: STARGAZER BROADCASTING						
233	94.5	KTBS-FM	HOUSTON	TX C	33.2	93.0	-59.8	242.6
		: AMFM TEXAS LICENSES LLC						
234	94.7	KVLL-FM	WELLS	TX C2	159.8	80.0	79.8	13.6
		: TOWNSQUARE MEDIA LUFKIN LICENSE, LLC						
235	94.9	NEW	HOUSTON	TX L1	24.0	24.0	0.0	304.4
		: TEMPLO DE DIOS, ORG 3						
235	94.9	KHTZ	GANADO	TX C1	144.7	111.0	33.7	230.9
		: ROY E. HENDERSON						
236	95.1	KYKR	BEAUMONT	TX C1	124.4	100.0	24.4	71.5
		: CAPSTAR TX LLC						
236	95.1	KNDE	COLLEGE STATION	TX C2	159.6	80.0	79.6	313.0
		: BRYAN BROADCASTING LICENSE CORPORATION						
236	95.1	K236AR	MISSOURI CITY	TX D	33.9	28.0	5.9	240.3
		: DAIJ MEDIA, LLC						
237	95.3	NEW	HOUSTON	TX L1	23.2	0.0	23.2	2.0
		: SANACION DE FAMILIA						
237	95.3	NEW	FRIENDSWOOD	TX L1	23.0	0.0	23.0	170.2
		: CALVARY CHAPEL SOUTHEAST HOUSTON						
237	95.3	K237FS	CONROE	TX D	70.8	14.0	56.8	338.6
		: EDUCATIONAL MEDIA FOUNDATION						
237	95.3	KJJB	EAGLE LAKE	TX C3	125.7	40.0	85.7	264.5
		: JENNIFER CREMEENS						
238	95.5	KAFX-FM	DIBOLL	TX C1	192.6	0.0	192.6	12.5
		: TOWNSQUARE MEDIA LUFKIN LICENSE, LLC						
238	95.5	KKMJ-FM	AUSTIN	TX C1	259.2	0.0	259.2	285.8
		: ENTERCOM LICENSE, LLC						

LPFM SECOND ADJACENT CHANNEL WAIVER STUDY

Pasadena, TX
Channel 235L1 (94.9 MHz)

Based on a study performed by Michelle Bradley of REC Networks, it has been determined that this proposed site qualifies for a second adjacent waiver as specified in Section 73.807(e) of the Commission's Rules.

Station KTBZ-FM, Houston TX (Facility ID # 18516) operates on Channel 233C and is located 33.2 km from the proposed LPFM site. KTBZ-FM operates 97 kW at 591.3m HAAT towards the proposed LPFM station. KTBZ-FM places a 85.3 dBu service contour at the proposed LPFM site.

The proposed LPFM station will operate from a radiation center of 25 meters above ground level which places the radiation center at 23 meters above average terrain and therefore can operate a full 100-watts in accordance with §73.811(a) of the Commission's Rules.

Using the U/D method¹, we have determined that the prohibited overlap goes as far as the 125.3 dBu F(50, 10) interference contour of the proposed LPFM station. Using the free-space method and with an ERP of 100 watts, the contour is measured at 38 meters from the radiation center of the antenna. The proposed LPFM station will utilize a single-bay Nicom BKG-77 circularly polarized antenna. Based on manufacturer's data using the depression angle method, a 100-watt signal would produce a 123.02 dBu contour at 40 degrees below the horizon at an artificial point of 3 meters above ground level. The interference does not reach any point lower than 8 meters above ground level. This places the interference contour well above all nearby occupied structures.

Therefore, based on the information presented, REC submits that the proposed LPFM station will not create any interference to existing or potential listeners of second adjacent channel station KTBZ. The applicant requests a waiver of §73.807(c) in respect to KTBZ.

Report completed by
Michelle Bradley
Founder, REC Networks
December 24, 2014

¹ - See *Living Way Ministries, Inc.* Memorandum Opinion and Order, 17 FCC Rcd 17054, 17056 (2002) at 5. *Recon denied* 23 FCC Rcd 15070 (2008).

APPENDIX A

PROPOSED TOWER SITE



The BLUE CURVE is the 125.3 dBu interference contour at the radiation center.

The RED CURVE is the 125.3 dBu interference contour at ground level.

APPENDIX B

Proposed Power:				0.1 kW				
Antenna Height AGL:				25 m				
Interference Contour:				125.3 dBu				
Artificial RX Antenna Height:				3 m				
Antenna Type:				Nicom BKG77 - 1 bay				
Angle Below Horizon	Antenna Relative Field	ERP in kW	ERP in dBk	Distance from Ant to Interference Contour	Distance from Ant to Artificial Plane	Field Strength in dBu @ Artificial Plane	Distance from Ant to Ground Level	Field Strength in dBu @ Ground Level
5	0.999	0.100	-10.01	38.07	252.42	108.87	286.84	107.76
10	0.982	0.096	-10.16	37.42	126.69	114.71	143.97	113.60
15	0.954	0.091	-10.41	36.35	85.00	117.92	96.59	116.81
20	0.918	0.084	-10.74	34.98	64.32	120.01	73.10	118.90
25	0.872	0.076	-11.19	33.23	52.06	121.40	59.16	120.29
30	0.818	0.067	-11.74	31.17	44.00	122.31	50.00	121.20
35	0.758	0.057	-12.41	28.88	38.36	122.84	43.59	121.73
40	0.691	0.048	-13.21	26.33	34.23	123.02	38.89	121.91
45	0.616	0.038	-14.21	23.47	31.11	122.85	35.36	121.74
50	0.538	0.029	-15.38	20.50	28.72	122.37	32.64	121.26
55	0.465	0.022	-16.65	17.72	26.86	121.69	30.52	120.58
60	0.391	0.015	-18.16	14.90	25.40	120.67	28.87	119.56
65	0.313	0.010	-20.09	11.93	24.27	119.13	27.58	118.02
70	0.239	0.006	-22.43	9.11	23.41	117.10	26.60	115.99
75	0.176	0.003	-25.09	6.71	22.78	114.68	25.88	113.57
80	0.129	0.002	-27.79	4.92	22.34	112.15	25.39	111.04
85	0.103	0.001	-29.74	3.92	22.08	110.30	25.10	109.18
90	0.105	0.001	-29.58	4.00	22.00	110.50	25.00	109.38