

**TECHNICAL EXHIBIT
APPLICATION FOR COMMERCIAL BROADCAST STATION
FORM FM 301
NEW (FM) CHANNEL 236 A, JACKSONVILLE, TX
FACILITY ID# 198813
TOMLINSON-LEIS COMMUNICATIONS, L.P.**

PURPOSE OF APPLICATION

Tomlinson-Leis, proposes in this instant application to construct this new station on an existing tower.

ANTENNA COORDINATES

The proposed antenna coordinates of N 31°-58'-53 W 95°-16'-55" meet 73.207 minimum spacing requirements with the exception of KFRO-FM, Channel 237C3, Gilmer, TX, Facility ID 14755. This proposal protects the licensed KFRO-FM 73.215 directional facility. See the following pages for a table showing compliance with 73.207 for the antenna coordinates, and application Exhibit 34 for contours and an FMOVR report demonstrating 73.215 compliance from the antenna coordinates for both the facilities mentioned above. These antenna coordinates provide coverage to the city of license under the 70 dBu 50-50 method.

PROPOSED FACILITY

The proposed facility will be located on an existing 123 meter tower. The center of radiation will be at 99 meters above ground level and 304 meters above mean sea level. No alteration of this tower is proposed other than adding an antenna and transmission line.

ENVIRONMENTAL

This proposed facility will use a four bay full wave spaced "double-vee" EPA type 2 antenna, mounted at 99 meters above ground level on a new tower. The OET FM Model program was used to evaluate non-ionizing electromagnetic radiation at two meters above ground level at the 2.45 kilowatts horizontal and vertical at 99 meters AGL specified. The maximum level was found to be 2.31 microwatts per square centimeter or 1.15% of the maximum level for general population uncontrolled exposure. This level occurs at 38 meters from the base of tower. This level for the proposed facility is well under 5% of the maximum limit and excludes this facility from further study per 1.1306. See the output from the OET FM Model program in the following pages.

New Jacksonville

REFERENCE		DISPLAY DATES
31 58 53.0 N.	CLASS = A	DATA 09-27-15
95 16 55.0 W.	Current Spacings to 3rd Adj.	SEARCH 09-28-15
----- Channel 236 - 95.1 MHz -----		

Call	Channel	Location		Azi	Dist	FCC	Margin

AU9810382_%	VAC	236A	Jacksonville	TX	188.2	8.65	114.5
							-105.9 ¹
KFRO-FM	LIC-Z	237C3	Gilmer	TX	26.6	80.66	88.5
							-7.8 ²
AU9813222	VAC	237C3	Teague	TX	255.3	91.59	88.5
							3.1
KAFX-FM	LIC	238C1	Diboll	TX	142.4	80.30	74.5
							5.8
KLTY	LIC	235C	Arlington	TX	293.5	172.51	164.5
							8.0
KNDE	LIC	236C2	College Station	TX	217.3	180.07	165.5
							14.6
1502503	RSV-A	233A	Oakwood	TX	238.0	66.91	30.5
							36.4
AP6290	APP	233A	Oakwood	TX	238.0	66.91	30.5
							36.4
AU9815030	VAC	233A	Oakwood	TX	238.0	66.91	30.5
							36.4
KEWL-FM	LIC-N	236C3	New Boston	TX	26.3	180.58	141.5
							39.1
KYKR	LIC	236C1	Beaumont	TX	149.5	246.42	199.5
							46.9
1501462	APP-N	233A	Oakwood	TX	232.2	78.34	30.5
							47.8

RSV-R = reserved - needs protection, RSV-A = allocation
 % = Station Fails minimum 73.215 spacings
 All separation margins include rounding

1 Facility studied

2 Contour protection

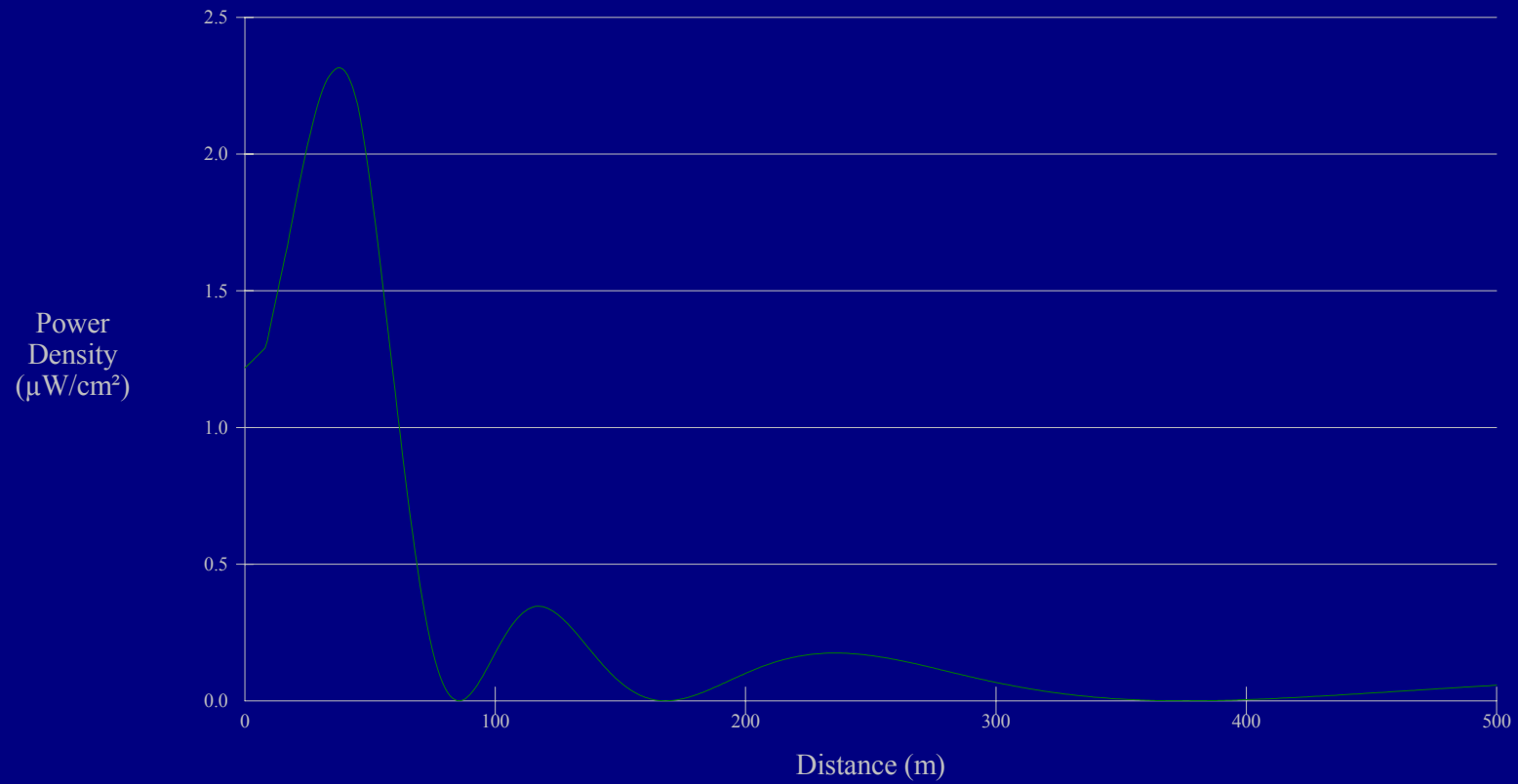
New Jacksonville

REFERENCE CH# 236A - 95.1 MHz, Pwr= 2.456 kW, HAAT= 160.7 M, COR= 304 M DISPLAY DATES
 31 58 53.0 N. Average Protected F(50-50)= 28.49 km DATA 09-27-15
 95 16 55.0 W. 73.215 Omni-directional SEARCH 09-28-15

CH CITY	CALL	TYPE STATE	ANT TX	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
236A	AU9810382%	VAC	___	188.2	8.65	31 54 15.0	6.000	80.8	23.7	91.5R	-82.9M
Jacksonville		TX		8.2	RM11201	95 17 42.0	100	239	Linda Crawford		
237C3	KFRO-FM	LIC	ZCN	26.6	80.79	32 37 50.0	5.900	52.3	32.2	0.8	1.2
Gilmer		TX		206.8	BLH19950814KG	94 53 44.0	203	311	Waller Broadcasting, Inc.		
237C3	AU9813222«	VAC	___	255.3	91.59	31 46 10.0	25.000	61.0	39.4	88.5R	3.1M
Teague		TX		74.8		96 13 03.0	100	220			
238C1	KAFX-FM«	LIC	_CN	142.4	80.30	31 24 28.0	100.000	7.9	62.3	74.5R	5.8M
Diboll		TX		322.6	BLH19860312KB	94 45 53.0	173	257	Townsquare Media	Lufkin Li	
235C	KLTY«	LIC	_CX	293.5	172.51	32 35 19.0	100.000	128.3	85.9	164.5R	8.0M
Arlington		TX		112.6	BLH20020725AAO	96 58 05.0	508	698	Inspiration Media Of Texas		
236C2	KNDE«	LIC	_CX	217.3	180.07	30 41 15.0	38.000	132.4	50.3	165.5R	14.6M
College Station		TX		36.8	BMLH20100916ABS	96 25 32.0	171	260	Bryan Broadcasting License		
233A	1502503«	RSV-A	___	238.0	66.91	31 39 42.0	6.000	2.9	30.3	30.5R	36.4M
Oakwood		TX		57.7		95 52 53.0	100	190	Great Northern Broadcastin		
233A	AP6290«	APP	___	238.0	66.91	31 39 42.0	6.000	2.9	30.3	30.5R	36.4M
Oakwood		TX		57.7	BSFH20150618ABQ	95 52 53.0	100	190			
233A	AU9815030«	VAC	___	238.0	66.91	31 39 42.0	6.000	2.9	30.3	30.5R	36.4M
Oakwood		TX		57.7	RMdtn-073	95 52 53.0	100	190	Roy E. Henderson		
236C3	KEWL-FM«	LIC	NC_	26.3	180.58	33 26 15.0	25.000	114.7	39.9	141.5R	39.1M
New Boston		TX		206.7	BLH19950714KA	94 25 11.0	99	196	American Media Investments		
236C1	KYKR«	LIC	_CN	149.5	246.42	30 03 43.0	100.000	151.2	55.4	199.5R	46.9M
Beaumont		TX		330.2	BLH19990225KB	93 58 50.0	131	132	Capstar Tx LLC		
233A	1501462«	APP	NCX	232.2	78.34	31 32 53.0	5.000	2.4	25.2	30.5R	47.8M
Oakwood		TX		51.9	BNPH20120529AEB	95 56 06.6	77	177	Great Northern Broadcastin		

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= - Zone 2, 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.
 « = Station meets FCC minimum distance spacing for its class.
 ^ = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements
 % = Station fails 73.215. 73.215 Minimum separation distances are used

Power Density vs Distance



Horizontal ERP (W) = 2450

Vertical ERP (W) = 2450

Antenna Height (m) = 99

Antenna Type = EPA Type 2

Number of Elements = 4

Element Spacing = 1

Distance (meters) = 500
Horizontal ERP (W) = 2450
Vertical ERP (W) = 2450
Antenna Height (m) = 99
Antenna Type = 2
Number of Elements = 4
Element Spacing = 1
Y-axis (Linear) = -1
X-axis Setup = 0, 500

X (meters) Y ($\mu\text{W}/\text{cm}^2$)

0	1.21813759409528
1	1.22661381981359
2	1.23526957729432
3	1.24409055052648
4	1.25305751228084
5	1.26214624056977
6	1.27132745508368
7	1.28056677671178
8	1.28982471358248
9	1.31697078099192
10	1.3611532068878
11	1.40535688488406
12	1.44946779855633
13	1.49336219121172
14	1.53690653947581
15	1.57995765064935
16	1.62236289468623
17	1.66396058045932
18	1.71264774570891
19	1.76168725854418
20	1.80994835562647
21	1.85719072676039
22	1.90316503451578
23	1.9476143049306
24	1.99027553427879

25	2.03088150590417
26	2.06918886590936
27	2.10793142799796
28	2.14406358683559
29	2.17729181365856
30	2.20732848638726
31	2.23389478099494
32	2.25672364101649
33	2.27556278486231
34	2.29017770754016
35	2.30035463108657
36	2.30903444691078
37	2.31460843606272
38	2.31555242634986
39	2.3116838421323
40	2.30285357175294
41	2.2889483660747
42	2.26989288596003
43	2.24565135625733
44	2.21622878971614
45	2.18167175100171
46	2.1346982321466
47	2.08101911797546
48	2.02315096209528
49	1.9613661444812
50	1.89596638313926
51	1.82728015481814
52	1.75565979488539
53	1.68147831576756
54	1.60512598781411
55	1.52700673003491
56	1.44753436081709
57	1.36926046734458
58	1.29024197922433
59	1.21088631542314
60	1.13160596244114
61	1.05280791409228

62	.974889943878017
63	.89823704565502
64	.823218085818566
65	.750182705746887
66	.679458508252851
67	.611348556390591
68	.54595599406944
69	.481995274556548
70	.421887073936579
71	.36576158220786
72	.313717076652356
73	.265820234423712
74	.222106750451178
75	.182582239789431
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83	9.13082007245895E-03
84	3.29902522741888E-03
85	4.0266736778536E-04
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142	.141678021226314
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151	6.01398374332042E-02
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155	.034432565566972
156	2.91409991589819E-02
157	2.43078186737574E-02
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159	1.60103112502894E-02
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161	9.51115183803982E-03
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163	4.75797031840122E-03
164	3.0142258622723E-03
165	1.67852440621638E-03
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167	1.84164943396691E-04
168	1.42375184437486E-08
169	1.7307970531649E-04
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172	2.68900805564958E-03

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176	1.01272906449072E-02
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178	1.53116684427663E-02
179	1.82145204243568E-02
180	2.13035317469365E-02
181	2.45632131317461E-02
182	2.79783023771323E-02
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184	3.52150064067552E-02
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273	.12460206133577
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291	8.55101596079053E-02
292	8.34331847360335E-02
293	.081373572927949
294	7.93321959828448E-02
295	7.73098843767605E-02
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310	.049711560034574
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324	2.94114126621872E-02
325	.028177993268915
326	2.69736052643691E-02
327	2.57982033862336E-02
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329	2.35341023324354E-02
330	2.24452398053239E-02
331	2.13850378699875E-02
332	.020353381942184
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341	1.23285358301917E-02
342	1.15736176218967E-02
343	1.08452938833549E-02
344	1.01433366181674E-02
345	9.46751124923182E-03
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347	8.19328728478584E-03
348	7.59439003637845E-03
349	7.02062809106374E-03
350	6.47173951135443E-03
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352	5.4475128115182E-03
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354	4.5195312773015E-03
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356	3.68555991640705E-03
357	3.3031164589783E-03

358	2.94331648191483E-03
359	2.60586871079992E-03
360	2.29047994503038E-03
361	1.99685529133867E-03
362	1.72469838888098E-03
363	1.47312792218433E-03
364	1.24260965274981E-03
365	1.03282411878296E-03
366	8.43445814837087E-04
367	6.74149539526159E-04
368	5.24610563809453E-04
369	3.9450479197239E-04
370	2.83508915512677E-04
371	1.91300560136788E-04
372	1.17558426068157E-04
373	6.19624218646876E-05
374	2.41937919393173E-05
375	3.93523797349887E-06
376	8.71034409710645E-07
377	1.46871382051697E-05
378	4.50712930251209E-05
379	9.17131280502305E-05
380	1.54304251568801E-04
381	2.32538339520698E-04
382	3.26111219156136E-04
383	4.3472094796871E-04
384	5.58067888058294E-04
385	6.95854776075832E-04
386	8.47786788898316E-04
387	1.01357160517868E-03
388	1.19291946291171E-03
389	1.38554321315373E-03
390	1.59115837003003E-03
391	1.80948315716079E-03
392	2.04023855063317E-03
393	2.28314831864288E-03
394	2.53793905792671E-03

395	2.80434022710303E-03
396	3.08208417703485E-03
397	3.37090617832654E-03
398	3.6705444460623E-03
399	3.98074016189189E-03
400	4.30123749356535E-03
401	4.63178361201643E-03
402	4.97212870609091E-03
403	5.32202599501389E-03
404	5.68123173868645E-03
405	6.04950524590073E-03
406	6.42660888055856E-03
407	6.81230806597698E-03
408	7.20637128736143E-03
409	7.60857009252484E-03
410	.008018679090928
411	8.43647595111557E-03
412	8.86174139661796E-03
413	9.29425920038901E-03
414	9.73381617784552E-03
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