

TOMLINSON-LEIS COMMUNICATIONS, L.P.
KYYK (FM)
Palestine, Texas
Amendment To Application For New Auxiliary Facility
Form 301 FM
Facility ID 72838
Palestine, TX

Purpose of Application

Tomlinson-Leiss Communications, L.P. seeks to construct an FM auxiliary facility for KYYK at their AM facility, KNET, Palestine, TX. This facility will comply with 47 CFR 73.1675 as the 1.0 mV/m contour of the proposed auxiliary will not extend beyond that of the 1.0 mV/m contour of the licensed main facility. The proposed facility will operate with 1.45 kW effective radiated power H&V at a HAAT of 95.7 m as calculated with 360 radials and 03 second terrain data. See the attached contour exhibit demonstrating that compliance with 73.1675.

Environmental

The proposed facility will use a 2 Bay full wave spaced EPA type 2 antenna. The proposed facility was evaluated using the OET FM Model program. The maximum predicted radiation was found to be 1.789 uW/cm² at 2 meters above ground level. This level is .9 % of the maximum for general population, uncontrolled exposure, and is an insignificant contributor and thereby excludes the proposed facility from further study. No construction or alteration will be done to the existing tower other than to add the new antenna and transmission line.

Amended Items

Height above average terrain was changed due to 360 radials with three second terrain being used for the calculation. Power was decreased by 50 Watts to 1.45 kW horizontal and vertical. See attached maps and DTC reports demonstrating compliance with 73.1675.

Distance to Contour Report

Type of contour: FCC
Location Variability: 50.0 %
Time Variability: 50.0 %
of Radials Calculated: 72
FCC Matching HAAT Calculation Used
Field Strength: 60.00 dBuV/m

Primary Terrain: NED 3 Second US Terrain

----- Transmitter Information:

Call Letters: KYYK at KNET
Latitude: 31-46-21.40 N
Longitude: 095-36-59.20 W
ERP: 1.45 kW
Channel: 252
Frequency: 98.3 MHz
AMSL Height: 224.3 m
Elevation: 119.8 m
Horiz. Antenna Pattern: Omni
Vert. Elevation Pattern: No

Azimuth (deg)	Distance (km)	HAAT (m)
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0.0	18.60	83.9
1.0	18.70	83.1
2.0	18.80	85.5
3.0	18.90	88.2
4.0	19.00	89.0
5.0	19.10	88.1
6.0	19.16	88.0
7.0	19.22	87.4
8.0	19.28	88.0
9.0	19.33	88.8
10.0	19.39	90.6
11.0	19.53	90.6
12.0	19.68	90.9
13.0	19.82	93.5
14.0	19.96	96.2
15.0	20.11	97.0
16.0	20.13	96.9
17.0	20.15	97.2
18.0	20.17	96.8
19.0	20.19	97.6
20.0	20.21	98.0
21.0	20.18	97.2
22.0	20.15	95.7
23.0	20.12	93.9
24.0	20.09	94.9
25.0	20.06	96.5
26.0	20.14	98.5
27.0	20.22	99.3
28.0	20.31	100.6

29.0	20.39	100.2
30.0	20.48	100.5
31.0	20.51	99.4
32.0	20.55	99.9
33.0	20.59	102.4
34.0	20.63	102.0
35.0	20.67	102.3
36.0	20.68	103.3
37.0	20.68	104.4
38.0	20.69	104.7
39.0	20.69	102.8
40.0	20.70	102.6
41.0	20.65	101.8
42.0	20.61	101.0
43.0	20.56	99.7
44.0	20.51	100.0
45.0	20.47	100.4
46.0	20.59	102.6
47.0	20.72	104.0
48.0	20.84	105.9
49.0	20.97	106.4
50.0	21.09	106.5
51.0	21.13	107.1
52.0	21.18	107.9
53.0	21.22	108.8
54.0	21.26	108.1
55.0	21.30	108.7
56.0	21.35	108.8
57.0	21.39	108.7
58.0	21.44	109.5
59.0	21.48	109.9
60.0	21.53	111.1
61.0	21.60	110.8
62.0	21.67	111.1
63.0	21.73	112.6
64.0	21.80	113.5
65.0	21.87	114.9
66.0	21.92	116.3
67.0	21.97	116.6
68.0	22.02	116.7
69.0	22.06	118.0
70.0	22.11	117.7
71.0	21.91	115.4
72.0	21.70	115.0
73.0	21.50	111.8
74.0	21.30	108.7
75.0	21.09	106.6
76.0	21.02	106.0
77.0	20.95	106.2
78.0	20.87	104.4
79.0	20.80	102.7
80.0	20.73	102.9
81.0	20.60	101.2
82.0	20.48	100.0
83.0	20.35	99.1
84.0	20.23	96.9
85.0	20.10	96.9

86.0	20.14	96.0
87.0	20.17	95.1
88.0	20.20	95.1
89.0	20.24	97.6
90.0	20.27	98.6
91.0	20.32	97.8
92.0	20.36	97.3
93.0	20.41	97.1
94.0	20.46	99.3
95.0	20.50	100.7
96.0	20.54	102.2
97.0	20.57	103.2
98.0	20.61	104.4
99.0	20.64	104.0
100.0	20.68	102.4
101.0	20.61	102.5
102.0	20.55	102.9
103.0	20.48	102.9
104.0	20.42	101.0
105.0	20.36	99.3
106.0	20.31	97.9
107.0	20.26	97.7
108.0	20.21	96.2
109.0	20.16	96.2
110.0	20.11	97.1
111.0	20.15	98.0
112.0	20.19	98.1
113.0	20.24	97.5
114.0	20.28	98.2
115.0	20.32	99.0
116.0	20.26	96.1
117.0	20.21	95.2
118.0	20.15	95.9
119.0	20.10	96.8
120.0	20.04	96.4
121.0	19.83	96.2
122.0	19.62	94.8
123.0	19.41	92.0
124.0	19.19	89.8
125.0	18.98	87.1
126.0	18.87	85.4
127.0	18.76	83.6
128.0	18.65	81.3
129.0	18.54	82.9
130.0	18.43	82.5
131.0	18.41	82.0
132.0	18.38	83.1
133.0	18.35	82.9
134.0	18.32	80.8
135.0	18.29	81.3
136.0	18.11	82.8
137.0	17.93	82.6
138.0	17.75	78.8
139.0	17.57	75.2
140.0	17.39	74.0
141.0	17.25	73.4
142.0	17.11	75.5

143.0	16.98	72.9
144.0	16.84	70.4
145.0	16.70	68.6
146.0	16.67	67.8
147.0	16.64	66.7
148.0	16.60	65.9
149.0	16.57	66.5
150.0	16.54	67.4
151.0	16.72	69.3
152.0	16.91	71.3
153.0	17.09	72.6
154.0	17.27	73.2
155.0	17.45	74.5
156.0	17.64	76.9
157.0	17.83	79.8
158.0	18.01	78.4
159.0	18.20	80.3
160.0	18.39	82.1
161.0	18.54	82.8
162.0	18.68	83.5
163.0	18.83	84.3
164.0	18.98	86.9
165.0	19.13	88.3
166.0	19.27	88.3
167.0	19.41	89.2
168.0	19.55	89.1
169.0	19.70	91.6
170.0	19.84	94.5
171.0	19.92	97.4
172.0	20.00	98.7
173.0	20.07	98.8
174.0	20.15	98.9
175.0	20.23	98.2
176.0	20.43	99.4
177.0	20.63	101.3
178.0	20.83	101.9
179.0	21.03	104.8
180.0	21.22	107.9
181.0	21.20	106.6
182.0	21.17	104.7
183.0	21.15	105.9
184.0	21.12	107.4
185.0	21.10	106.6
186.0	20.87	106.5
187.0	20.65	104.8
188.0	20.43	99.6
189.0	20.20	97.7
190.0	19.98	95.8
191.0	20.14	95.0
192.0	20.30	96.7
193.0	20.46	98.4
194.0	20.62	100.9
195.0	20.78	103.4
196.0	20.68	102.8
197.0	20.59	103.6
198.0	20.49	102.4
199.0	20.39	99.8

200.0	20.29	98.7
201.0	20.22	98.4
202.0	20.16	97.1
203.0	20.09	94.7
204.0	20.03	94.5
205.0	19.96	95.7
206.0	20.03	96.9
207.0	20.11	96.8
208.0	20.18	96.9
209.0	20.25	97.8
210.0	20.33	99.1
211.0	20.38	101.9
212.0	20.43	102.5
213.0	20.49	100.7
214.0	20.54	100.5
215.0	20.59	101.6
216.0	20.78	103.3
217.0	20.98	105.4
218.0	21.17	107.8
219.0	21.36	109.3
220.0	21.55	111.4
221.0	21.62	113.2
222.0	21.69	115.3
223.0	21.76	116.6
224.0	21.82	115.4
225.0	21.89	115.2
226.0	21.86	115.6
227.0	21.83	115.2
228.0	21.79	114.2
229.0	21.76	113.0
230.0	21.73	113.3
231.0	21.73	113.4
232.0	21.74	113.3
233.0	21.75	112.9
234.0	21.76	113.0
235.0	21.76	113.7
236.0	21.89	115.0
237.0	22.02	116.4
238.0	22.14	117.9
239.0	22.27	119.0
240.0	22.40	121.3
241.0	22.41	122.5
242.0	22.43	122.0
243.0	22.44	120.8
244.0	22.45	120.4
245.0	22.47	122.2
246.0	22.54	124.0
247.0	22.61	124.3
248.0	22.68	124.1
249.0	22.75	125.6
250.0	22.83	126.8
251.0	22.75	125.9
252.0	22.68	123.9
253.0	22.60	123.1
254.0	22.53	122.7
255.0	22.45	122.0
256.0	22.37	121.6

257.0	22.28	121.2
258.0	22.20	118.9
259.0	22.11	117.6
260.0	22.02	116.7
261.0	21.95	115.2
262.0	21.88	114.4
263.0	21.81	114.7
264.0	21.73	113.8
265.0	21.66	112.5
266.0	21.62	110.9
267.0	21.59	110.0
268.0	21.55	110.4
269.0	21.51	110.7
270.0	21.48	110.5
271.0	21.37	109.3
272.0	21.27	108.4
273.0	21.17	107.3
274.0	21.06	105.9
275.0	20.96	105.2
276.0	20.88	104.1
277.0	20.81	102.9
278.0	20.73	102.0
279.0	20.65	101.2
280.0	20.58	101.4
281.0	20.54	101.0
282.0	20.49	100.4
283.0	20.45	99.8
284.0	20.41	99.5
285.0	20.37	99.4
286.0	20.36	99.1
287.0	20.36	98.0
288.0	20.35	97.7
289.0	20.35	97.9
290.0	20.34	99.2
291.0	20.29	98.9
292.0	20.23	98.0
293.0	20.18	97.8
294.0	20.12	97.3
295.0	20.07	96.6
296.0	20.04	96.1
297.0	20.01	95.5
298.0	19.98	95.0
299.0	19.95	95.6
300.0	19.92	95.3
301.0	19.88	95.4
302.0	19.85	95.0
303.0	19.82	95.9
304.0	19.78	95.7
305.0	19.75	93.8
306.0	19.59	91.6
307.0	19.44	90.3
308.0	19.28	89.6
309.0	19.13	87.5
310.0	18.97	87.0
311.0	18.90	85.7
312.0	18.83	85.1
313.0	18.76	85.4

314.0	18.69	84.2
315.0	18.62	84.0
316.0	18.42	84.2
317.0	18.23	83.0
318.0	18.03	81.1
319.0	17.84	78.7
320.0	17.64	76.0
321.0	17.36	73.2
322.0	17.07	70.1
323.0	16.79	70.7
324.0	16.50	66.9
325.0	16.22	65.0
326.0	15.73	62.9
327.0	15.24	61.0
328.0	14.76	56.8
329.0	14.27	51.8
330.0	13.78	47.3
331.0	13.83	46.3
332.0	13.89	48.0
333.0	13.95	47.8
334.0	14.00	48.8
335.0	14.06	49.2
336.0	14.19	49.9
337.0	14.33	50.8
338.0	14.46	50.5
339.0	14.60	51.1
340.0	14.73	53.8
341.0	15.17	56.6
342.0	15.61	60.3
343.0	16.06	67.2
344.0	16.50	70.8
345.0	16.94	70.5
346.0	17.04	70.2
347.0	17.14	70.2
348.0	17.24	71.3
349.0	17.34	74.2
350.0	17.44	74.5
351.0	17.57	76.0
352.0	17.71	79.7
353.0	17.84	78.3
354.0	17.97	77.0
355.0	18.10	79.7
356.0	18.20	82.3
357.0	18.30	85.0
358.0	18.40	87.2
359.0	18.50	85.1

Average HAAT for radials shown: 95.7 m





