

Educational Media Foundation

5700 West Oaks Boulevard

Rocklin, CA 95765

Exhibit 1

Franklin, TX

Purpose of this Application

Educational Media Foundation ("EMF") submits this application for the purpose of modifying the KVLX transmit antenna geographic coordinates and site elevation to match the Antenna Structure Registration number 1262388 coordinates and site elevation.

The proposed center of radiation above ground remains the same as the KVLX licensed center of radiation above ground. The center of radiation above mean sea level has changed due to the site elevation change.

KVLX Site Spacing

REFERENCE					DISPLAY DATES			
30 53 03.50 N.				CLASS = C3	DATA	04-17-20		
96 32 24.70 W.				Current Spacings to 3rd Adj.	SEARCH	05-01-20		
----- Channel 280 - 103.9 MHz -----								
Call	Channel	Location		Azi	Dist	FCC	Margin	
KVLX	LIC	280C3	Franklin TX	296.2	0.15	152.5	-152.4	
KRBE	LIC	281C	Houston TX	145.5	175.65	175.5	0.15	
KWOW	LIC-N	281C2	Clifton TX	322.0	120.42	116.5	3.9	
KVIL	LIC	279C	Highland Park-DallaTX	348.1	193.29	175.5	17.8	
K278AU	LIC	278D	College Station TX	150.2	29.73	9.5	20.2	
KBEY	LIC	280A	Burnet TX	265.1	170.88	141.5	29.4	
K226AE	LIC-D	226D	College Station TX	143.2	45.40	11.5	33.9	
WTAW-FM	LIC	278A	Buffalo TX	45.4	75.82	41.5	34.3	
KBQQ	LIC	280C3	Smiley TX	206.0	187.45	152.5	35.0	
KLQB	LIC-N	282C2	Taylor TX	237.8	93.45	55.5	38.0	
KHJK	LIC	279C	La Porte TX	117.9	221.51	175.5	46.0	

All separation margins include rounding								

Community of License Coverage
Note - Franklin TX is completely Encompassed by the 70dbu(F50-50) Contour

KVLX.P

BMLED20180405AAB

Latitude: 30-53-03.50 N

Longitude: 096-32-24.70 W

ERP: 9.40 kW

Channel: 280

Frequency: 103.9 MHz

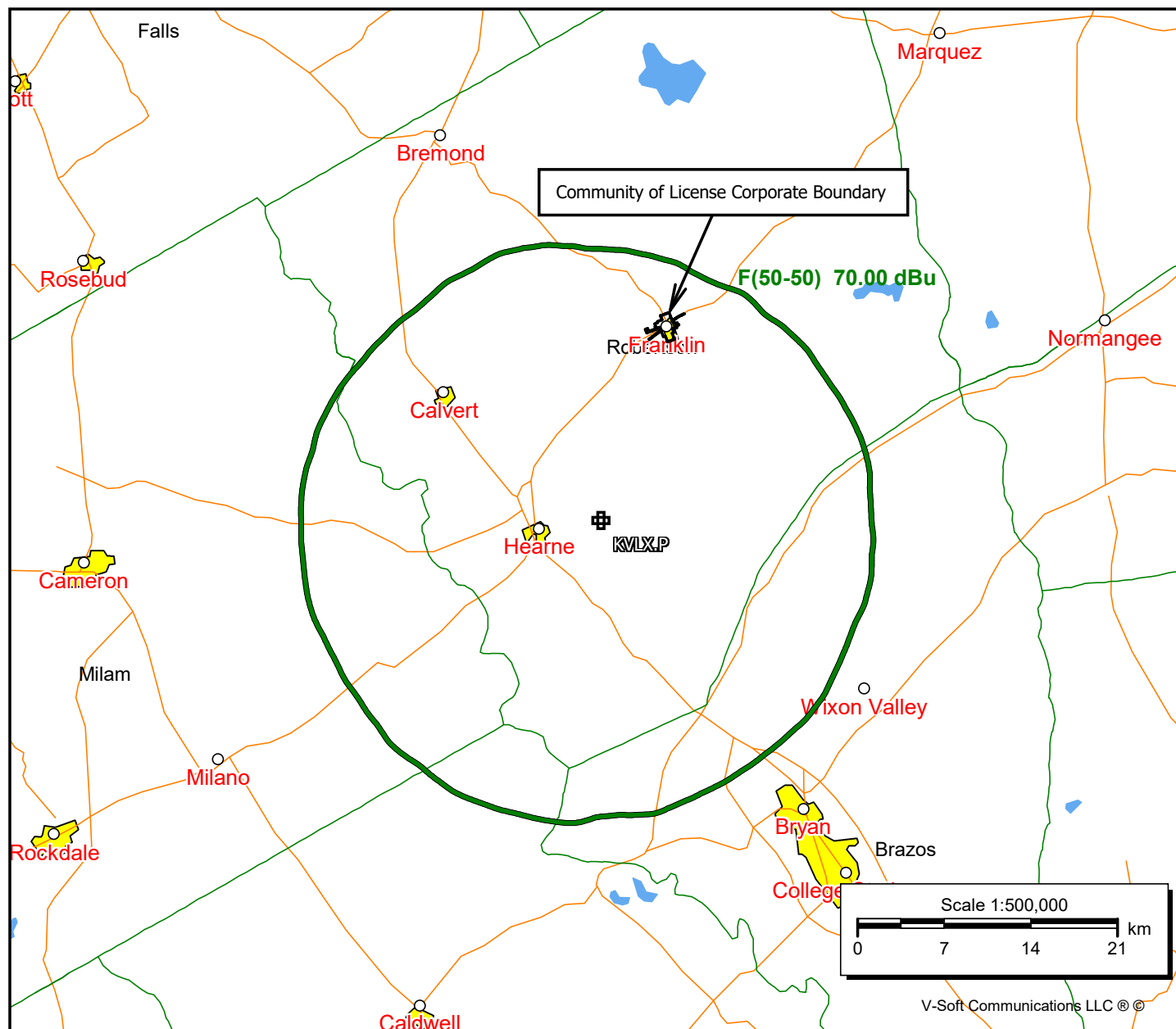
AMSL Height: 268.2 m

Elevation: 120.4 m

Horiz. Pattern: Omni

Vert. Pattern: No

Prop Model: None



Environmental Protection

There are two main factors that need to be addressed in order to make sure that the environment around a proposed facility is protected.

1) Significant affects to the environment.

EMF's proposed facility will be constructed on an existing tower (tower ID 1262388) and will cause no adverse effects to the surrounding environment at the site.

2) Human exposure to excess levels of radiofrequency radiation.

The proposed facility is to be built using a 4-bay circularly polarized half-wave spaced antenna.

According to OET 65, "Applicants and licensees should be able to calculate, based on considerations of frequency, power and antenna characteristics the distance from their transmitter where their signal produces an RF field equal to, or greater than, the 5% threshold limit. The applicant or licensee then shares responsibility for compliance in any accessible area or areas within this 5% "contour" where the appropriate limits are found to be exceeded."

As can be seen in Exhibit 24A, the proposed facility's maximum contribution to RF on the site is $0.42\mu\text{W}/\text{cm}^2$ at a distance of 139 meters from the tower, which is 0.21% of the uncontrolled (public) exposure limit.

Therefore, because the proposed facility will not cause an RF field that is equal to or greater than 5% of the $200\text{ uW}/\text{cm}^2$ limit for uncontrolled exposure at any point, the proposed facility complies with the requirements of OET 65.

EMF will fully cooperate with other site users to temporarily reduce power or cease broadcasting, as necessary, to protect workers and others having access to the site from excessive levels of RF Radiation.

RF Analysis: KVLX
72718
280
C3

Site type: Application
Channel: 280
Class: C3
ERP: 9.4

Antenna: Shively
 6813-4-HW
 4
 0.5 spaced

COR AGL: 147.8

Polarization: Circular Pol

Distance From Tower (m)	KVLX Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
0	0.0000	0.00	0.000
1	0.0000	0.00	0.000
2	0.0000	0.00	0.000
3	0.0000	0.00	0.000
4	0.0000	0.00	0.000
5	0.0000	0.00	0.000
6	0.0000	0.00	0.000
7	0.0000	0.00	0.000
8	0.0000	0.00	0.000
9	0.0000	0.00	0.000
10	0.0000	0.00	0.000
11	0.0000	0.00	0.000
12	0.0000	0.00	0.000
13	0.0000	0.00	0.000
14	0.0000	0.00	0.000
15	0.0000	0.00	0.000
16	0.0000	0.00	0.000
17	0.0000	0.00	0.000
18	0.0001	0.00	0.000
19	0.0001	0.00	0.000
20	0.0001	0.00	0.000
21	0.0001	0.00	0.000
22	0.0001	0.00	0.000
23	0.0002	0.00	0.000
24	0.0002	0.00	0.000
25	0.0003	0.00	0.000
26	0.0004	0.00	0.000
27	0.0004	0.00	0.000
28	0.0006	0.00	0.000
29	0.0007	0.00	0.000
30	0.0008	0.00	0.000
31	0.0010	0.00	0.001
32	0.0012	0.00	0.001
33	0.0015	0.00	0.001
34	0.0017	0.00	0.001
35	0.0021	0.00	0.001
36	0.0024	0.00	0.001
37	0.0028	0.00	0.001
38	0.0033	0.00	0.002
39	0.0038	0.00	0.002
40	0.0044	0.00	0.002
41	0.0050	0.01	0.003
42	0.0057	0.01	0.003
43	0.0064	0.01	0.003
44	0.0072	0.01	0.004
45	0.0080	0.01	0.004

Distance From Tower (m)	KVLX Facility	Total RF (uW/cm2)	Percent of 200uW/cm2
46	0.0090	0.01	0.004
47	0.0100	0.01	0.005
48	0.0111	0.01	0.006
49	0.0123	0.01	0.006
50	0.0136	0.01	0.007
51	0.0150	0.01	0.007
52	0.0165	0.02	0.008
53	0.0181	0.02	0.009
54	0.0198	0.02	0.010
55	0.0218	0.02	0.011
56	0.0239	0.02	0.012
57	0.0261	0.03	0.013
58	0.0285	0.03	0.014
59	0.0311	0.03	0.016
60	0.0338	0.03	0.017
61	0.0366	0.04	0.018
62	0.0397	0.04	0.020
63	0.0429	0.04	0.021
64	0.0462	0.05	0.023
65	0.0498	0.05	0.025
66	0.0535	0.05	0.027
67	0.0574	0.06	0.029
68	0.0615	0.06	0.031
69	0.0658	0.07	0.033
70	0.0702	0.07	0.035
71	0.0747	0.07	0.037
72	0.0795	0.08	0.040
73	0.0844	0.08	0.042
74	0.0895	0.09	0.045
75	0.0948	0.09	0.047
76	0.1002	0.10	0.050
77	0.1058	0.11	0.053
78	0.1116	0.11	0.056
79	0.1176	0.12	0.059
80	0.1237	0.12	0.062
81	0.1299	0.13	0.065
82	0.1364	0.14	0.068
83	0.1429	0.14	0.071
84	0.1496	0.15	0.075
85	0.1565	0.16	0.078
86	0.1633	0.16	0.082
87	0.1703	0.17	0.085
88	0.1774	0.18	0.089
89	0.1846	0.18	0.092
90	0.1918	0.19	0.096
91	0.1992	0.20	0.100
92	0.2066	0.21	0.103
93	0.2141	0.21	0.107
94	0.2216	0.22	0.111
95	0.2292	0.23	0.115
96	0.2368	0.24	0.118
97	0.2444	0.24	0.122
98	0.2521	0.25	0.126
99	0.2597	0.26	0.130
140	0.4504	0.45	0.225