

Engineering Statement

In Support of an Application for a Construction Permit

**KVST(FM), Willis, TX
Channel 279C1**

KVST Contour Study

Reference Coordinates:

North Latitude: 30-19-46

West Longitude: 94-51-31

ERP = 28.0 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Ave. Elev.		Effective		Distance to	Distance to
Azimuth	3 to 16 km	Antenna Height	ERP	60 dBu Contour	70 dBu Contour
°T.	Meters AMSL	Meters AAT	(dBk)	km	km
0.0	15.6	494.3	14.472	73.0	49.4
5.0	13.2	496.7	14.472	73.1	49.5
10.0	14.7	495.2	14.472	73.0	49.4
15.0	16.1	493.8	14.472	72.9	49.4
20.0	15.9	494.0	14.472	72.9	49.4
25.0	16.4	493.5	14.472	72.9	49.3
30.0	17.2	492.7	14.472	72.9	49.3
35.0	16.9	493.0	14.472	72.9	49.3
40.0	16.8	493.1	14.472	72.9	49.3
45.0	18.8	491.1	14.472	72.7	49.2
50.0	19.9	490.0	14.472	72.7	49.1
55.0	20.3	489.6	14.472	72.6	49.1
60.0	23.5	486.4	14.472	72.4	49.0
65.0	25.1	484.8	14.472	72.3	48.9
70.0	25.6	484.3	14.472	72.3	48.8
75.0	25.2	484.7	14.472	72.3	48.9
80.0	24.8	485.1	14.472	72.3	48.9
85.0	24.7	485.2	14.472	72.3	48.9
90.0	24.7	485.2	14.472	72.3	48.9
95.0	24.2	485.7	14.472	72.4	48.9
100.0	22.7	487.2	14.472	72.5	49.0
105.0	21.6	488.3	14.472	72.5	49.1
110.0	19.5	490.4	14.472	72.7	49.2
115.0	18.3	491.6	14.472	72.8	49.2
120.0	16.4	493.5	14.472	72.9	49.3
125.0	15.3	494.6	14.472	73.0	49.4
130.0	14.2	495.7	14.472	73.1	49.5
135.0	13.2	496.7	14.472	73.1	49.5
140.0	12.8	497.1	14.472	73.2	49.5
145.0	11.4	498.5	14.472	73.3	49.6
150.0	9.6	500.3	14.472	73.4	49.7
155.0	9.4	500.5	14.472	73.4	49.7

Continued on the next page

Exhibit E, Figure 7(a)

ERP = 28.0 kW		FM - 2-6 Tables		F(50-50)	F(50-50)
Ave. Elev.		Effective		Distance to	Distance to
Azimuth	3 to 16 km	Antenna Height	ERP	60 dBu Contour	70 dBu Contour
°T.	Meters AMSL	Meters AAT	(dBk)	km	km
160.0	10.4	499.5	14.472	73.3	49.7
165.0	11.8	498.1	14.472	73.2	49.6
170.0	13.0	496.9	14.472	73.1	49.5
175.0	14.4	495.5	14.472	73.1	49.5
180.0	16.4	493.5	14.472	72.9	49.3
185.0	18.6	491.3	14.472	72.8	49.2
190.0	20.2	489.7	14.472	72.6	49.1
195.0	20.9	489.0	14.472	72.6	49.1
200.0	22.2	487.7	14.472	72.5	49.0
205.0	24.1	485.8	14.472	72.4	48.9
210.0	25.1	484.8	14.472	72.3	48.9
215.0	26.6	483.3	14.472	72.2	48.8
220.0	28.1	481.8	14.472	72.1	48.7
225.0	29.6	480.3	14.472	72.0	48.6
230.0	31.3	478.6	14.472	71.9	48.5
235.0	33.3	476.6	14.472	71.7	48.4
240.0	33.4	476.5	14.472	71.7	48.4
245.0	33.9	476.0	14.472	71.7	48.4
250.0	34.6	475.3	14.472	71.6	48.3
255.0	35.6	474.3	14.472	71.5	48.3
260.0	36.2	473.7	14.472	71.5	48.2
265.0	37.4	472.5	14.472	71.4	48.2
270.0	39.4	470.5	14.472	71.3	48.1
275.0	41.2	468.7	14.472	71.1	48.0
280.0	40.9	469.0	14.472	71.2	48.0
285.0	41.5	468.4	14.472	71.1	48.0
290.0	41.6	468.3	14.472	71.1	48.0
295.0	41.3	468.6	14.472	71.1	48.0
300.0	40.1	469.8	14.472	71.2	48.0
305.0	38.0	471.9	14.472	71.4	48.1
310.0	36.2	473.7	14.472	71.5	48.2
315.0	34.5	475.4	14.472	71.6	48.3
320.0	31.3	478.6	14.472	71.8	48.5
325.0	29.6	480.3	14.472	72.0	48.6
330.0	27.6	482.3	14.472	72.1	48.7
335.0	23.1	486.8	14.472	72.4	49.0
340.0	18.8	491.1	14.472	72.7	49.2
345.0	15.9	494.0	14.472	72.9	49.4
350.0	14.0	495.9	14.472	73.1	49.5
355.0	14.5	495.4	14.472	73.0	49.4

Ave. = 23.8 M 486.1 M
 Antenna Radiation Center AMSL = 509.9 M
 Average 60 dBu radial area = 16,480 sq km, 6362 Sq Mi