

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

Proposed Facility (28.0 kW at 485.9 meters HAAT)

ERP = 28.0 kW		FM - 2-6 Tables		F(50-50)	
Ave. Elev.		Effective		Distance to	
Azimuth	3 to 16 km	Antenna Height	ERP	60 dBu Contour	
°T.	Meters AMSL	Meters AAT	(dBk)	km	
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0.0	15.6	494.3	14.472	73.0	
45.0	18.8	491.1	14.472	72.7	
90.0	24.7	485.2	14.472	72.3	
135.0	13.2	496.7	14.472	73.1	
180.0	16.4	493.5	14.472	72.9	
225.0	29.6	480.3	14.472	72.0	
270.0	39.4	470.5	14.472	71.3	
315.0	34.5	475.4	14.472	71.6	
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Ave. = 22.3 M 485.9 M					
Antenna Radiation Center AMSL = 509.9 M					

Average Distance to the 60 dBu Contour = 72.3 km

Maximum Class C1 (100 kW at 299 meters HAAT)

ERP = 6 kW		FM - 2-6 Tables		F(50-50)	
Ave. Elev.		Effective		Distance to	
Azimuth	3 to 16 km	Antenna Height	ERP	60 dBu Contour	
°T.	Meters AMSL	Meters AAT	(dBk)	km	
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0.0	15.6	307.4	20.000	72.9	
45.0	18.8	304.2	20.000	72.7	
90.0	24.7	298.3	20.000	72.3	
135.0	13.2	309.8	20.000	73.1	
180.0	16.4	306.6	20.000	72.9	
225.0	29.6	293.4	20.000	71.9	
270.0	39.4	283.6	20.000	71.1	
315.0	34.5	288.5	20.000	71.5	
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Ave. = 453.0 M 299.0 M					
Antenna Radiation Center AMSL = 323.0 M					

Average Distance to the 60 dBu Contour = 72.3 km
