

## Engineering Statement

### In Support of an Application for a Construction Permit

KJCS(FM), Nacogdoches, TX  
Channel 277C2

### KJCS Terrain Study

#### Reference Coordinates:

North Latitude: 31-25-59

West Longitude: 94-49-03

The antenna is calculated to be at 982.3 feet (299.4 m.) AMSL.

<u>Azimuth</u>	<u>Terrain Average</u>		<u>Antenna Height</u>	
* 0.0	211.5 feet	( 64.5 meters), A. A. T.	770.8 feet	( 234.9 meters).
15.0	229.7 feet	( 70.0 meters), A. A. T.	752.6 feet	( 229.4 meters).
30.0	209.0 feet	( 63.7 meters), A. A. T.	773.2 feet	( 235.7 meters).
* 45.0	241.0 feet	( 73.5 meters), A. A. T.	741.2 feet	( 225.9 meters).
60.0	219.2 feet	( 66.8 meters), A. A. T.	763.1 feet	( 232.6 meters).
75.0	212.1 feet	( 64.7 meters), A. A. T.	770.1 feet	( 234.7 meters).
* 90.0	228.2 feet	( 69.6 meters), A. A. T.	754.0 feet	( 229.8 meters).
105.0	269.0 feet	( 82.0 meters), A. A. T.	713.2 feet	( 217.4 meters).
120.0	292.3 feet	( 89.1 meters), A. A. T.	689.9 feet	( 210.3 meters).
* 135.0	322.9 feet	( 98.4 meters), A. A. T.	659.4 feet	( 201.0 meters).
150.0	308.9 feet	( 94.2 meters), A. A. T.	673.3 feet	( 205.2 meters).
165.0	305.8 feet	( 93.2 meters), A. A. T.	676.5 feet	( 206.2 meters).
* 180.0	286.8 feet	( 87.4 meters), A. A. T.	695.5 feet	( 212.0 meters).
195.0	269.4 feet	( 82.1 meters), A. A. T.	712.9 feet	( 217.3 meters).
210.0	252.0 feet	( 76.8 meters), A. A. T.	730.2 feet	( 222.6 meters).
* 225.0	260.8 feet	( 79.5 meters), A. A. T.	721.5 feet	( 219.9 meters).
240.0	248.1 feet	( 75.6 meters), A. A. T.	734.2 feet	( 223.8 meters).
255.0	243.8 feet	( 74.3 meters), A. A. T.	738.5 feet	( 225.1 meters).
* 270.0	249.6 feet	( 76.1 meters), A. A. T.	732.7 feet	( 223.3 meters).
285.0	289.7 feet	( 88.3 meters), A. A. T.	692.6 feet	( 211.1 meters).
300.0	307.4 feet	( 93.7 meters), A. A. T.	674.8 feet	( 205.7 meters).
* 315.0	295.9 feet	( 90.2 meters), A. A. T.	686.3 feet	( 209.2 meters).
330.0	213.5 feet	( 65.1 meters), A. A. T.	768.8 feet	( 234.3 meters).
345.0	230.7 feet	( 70.3 meters), A. A. T.	751.6 feet	( 229.1 meters).
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Avg. of 8:	262.1 feet	( 79.9 meters); HAAT	720.2 feet	(219.5 meters).

\* Only eight cardinal radials used in terrain averaging