

**Engineering Statement  
In Support of an  
Application for a Construction Permit**

**KTND, Georgetown, Texas  
Channel 299C3**

**KTND Protected to KXTN-FM Interfering Contours Study**

03 Sec. Terrain Data

KTND.P  
Channel = 299C3  
Max ERP = 10.5 kW  
RCAMSL = 383.7 M  
N. Lat = 303722  
W. Lng = 973833

KXTNFM BLH19840705CB  
Channel = 298C0  
Max ERP = 100 kW  
RCAMSL = 609.75 M  
N. Lat = 29 16 29  
W. Lng = 98 15 52

Protected  
60 dBu

Interfering  
54 dBu

Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Azimuth (degrees)	ERP (kW)	HAAT (m)	Dist (km)	Actual (dBu)
000.0	010.5000	0159.8	039.8	017.3	100.0000	0436.9	198.5	37.7
010.0	010.5000	0153.6	039.1	019.3	100.0000	0436.2	199.4	37.5
020.0	010.5000	0155.5	039.3	021.2	100.0000	0436.2	200.3	37.4
030.0	010.5000	0163.1	040.2	023.2	100.0000	0436.1	200.9	37.3
040.0	010.5000	0166.6	040.6	025.1	100.0000	0435.6	200.0	37.4
050.0	010.5000	0172.4	041.2	027.1	100.0000	0435.0	198.3	37.7
060.0	010.5000	0180.6	041.9	029.1	100.0000	0435.6	195.7	38.2
070.0	010.5000	0191.3	042.8	031.0	100.0000	0436.2	192.2	38.9
080.0	010.5000	0196.9	043.2	032.8	100.0000	0436.5	187.5	39.7
090.0	010.5000	0188.1	042.5	034.1	100.0000	0436.7	181.3	40.8
100.0	010.5000	0176.9	041.6	035.0	100.0000	0437.2	174.4	42.2
110.0	010.5000	0175.3	041.4	035.8	100.0000	0437.5	167.6	43.7
120.0	010.5000	0166.4	040.5	036.0	100.0000	0437.5	160.5	45.2
130.0	010.5000	0162.5	040.1	035.9	100.0000	0437.5	153.4	46.7
140.0	010.5000	0164.4	040.3	035.6	100.0000	0437.5	146.5	48.1
150.0	010.5000	0168.4	040.7	034.9	100.0000	0437.2	139.7	49.7
160.0	010.5000	0167.0	040.6	033.3	100.0000	0436.4	133.7	51.2
170.0	010.5000	0160.0	039.8	031.0	100.0000	0436.2	129.0	52.3
180.0	010.5000	0156.9	039.5	028.4	100.0000	0435.3	125.3	53.2
190.0	010.5000	0153.2	039.0	025.4	100.0000	0435.4	123.1	53.8
200.0	010.5000	0145.9	038.2	022.3	100.0000	0436.2	122.9	53.9
210.0	010.5000	0140.1	037.5	019.3	100.0000	0436.2	124.1	53.6
220.0	010.5000	0135.3	036.9	016.6	100.0000	0437.6	126.5	53.0
230.0	010.5000	0130.0	036.3	014.2	100.0000	0439.2	130.2	52.1
240.0	010.5000	0123.8	035.5	012.4	100.0000	0439.9	134.9	50.9
250.0	010.5000	0119.9	035.1	011.0	100.0000	0440.2	140.1	49.6
260.0	010.5000	0118.5	034.9	010.0	100.0000	0440.3	145.7	48.4
270.0	010.5000	0141.3	037.6	008.4	100.0000	0440.4	151.1	47.2
280.0	010.5000	0126.3	035.8	008.9	100.0000	0440.4	157.6	45.9
290.0	010.5000	0125.2	035.7	009.2	100.0000	0440.4	163.8	44.6
300.0	010.5000	0140.1	037.5	009.2	100.0000	0440.4	170.4	43.1
310.0	010.5000	0130.0	036.3	010.4	100.0000	0440.3	175.7	42.0
320.0	010.5000	0142.2	037.7	011.2	100.0000	0440.2	181.9	40.8
330.0	010.5000	0144.7	038.0	012.5	100.0000	0439.9	186.9	39.9
340.0	010.5000	0148.7	038.5	014.0	100.0000	0439.4	191.4	39.1
350.0	010.5000	0160.6	039.9	015.5	100.0000	0438.6	196.0	38.2