

AMEND BLH-20050602AAH
CUMULUS LICENSING LLC
KIOL RADIO STATION
CH 279C - 103.7 MHZ - 100.0 KW
LA PORTE, TEXAS
September 2005

EXHIBIT A

KIOL Transmission System Calculations

Effective Radiated Power:	
Horizontal	94.86 kilowatts (at horizon)
Horizontal/Vertical	100.0 kilowatts (in tilted beam)
Antenna:	Dielectric DCRM-10B9T75P
	10 bay 0.9 wavelength spaced
Horizontal gain	5.1
Transmission Line:	Dielectric FL-105
(2005 feet)	4 1/8 inch air dielectric
	73.1% Efficiency
Dielectric Analog/Digital Combiner:	Insertion Loss 0.47835 db
(High level combiner)	89.571%
Dielectric Coaxial Switch	Insertion Loss 0.010 db
	97.8%
Required Transmitter Power Output To Reach Effective Radiated Power:	30.62 kilowatts

Facilities Authorized:	Channel 279C - 103.7 MHz
Effective Radiated Power:	100.00 kilowatts (H/V)
Geographic Coordinates:	North Latitude 29° 56' 09"
	West Longitude 94° 30' 38"
Antenna Center of Radiation:	Above Ground 595.0 meters
	Above MSL 607.0 meters
	HAAT 590.0 meters
Antenna Structure Registration #:	1242072

Proposal Number 79833
Date 2-Feb-05
Call Letters KVST
Location Houston, TX
Customer Cumulus
Antenna Type DCRM10B9T75P
Drawing #

ELEVATION PATTERN

RMS Gain at Main Lobe 5.30 (7.24 dB) Beam Tilt 0.75 deg
Per Polarization Frequency 103.7
Calculated / Measured Calculated

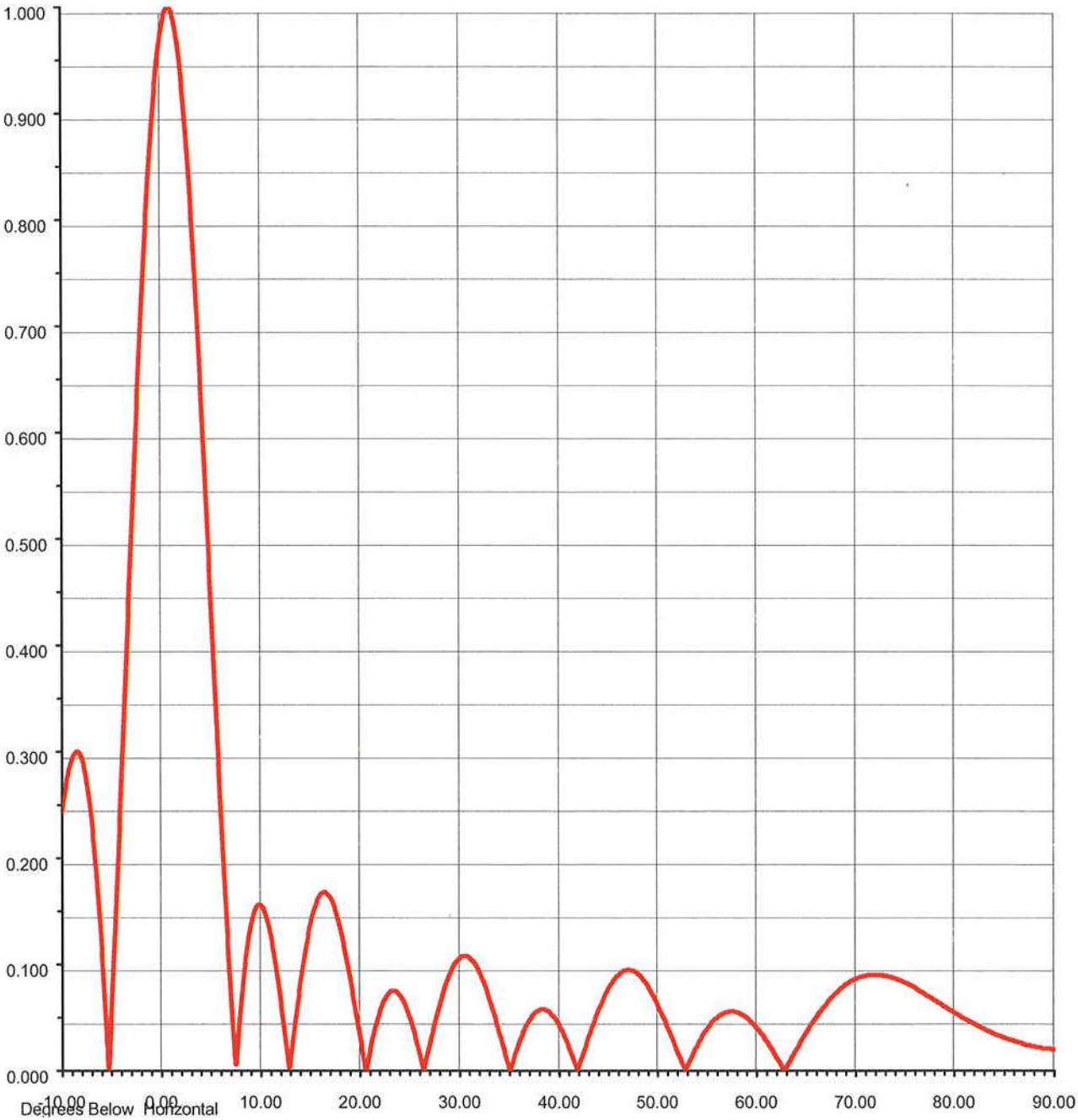


EXHIBIT #1



Proposal Number

Date

Call Letters

Location

Customer

Antenna Type

19-Sep-05

KVST

La Porte, TX

Cumulus

DCRM10B9T75P

TABULATION OF ELEVATION PATTERN

Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field	Angle	Field
-10.0	0.243	2.4	0.900	10.6	0.146	30.5	0.108	51.0	0.042	71.5	0.090
-9.5	0.273	2.6	0.875	10.8	0.139	31.0	0.107	51.5	0.031	72.0	0.090
-9.0	0.292	2.8	0.848	11.0	0.130	31.5	0.102	52.0	0.020	72.5	0.090
-8.5	0.300	3.0	0.818	11.5	0.104	32.0	0.094	52.5	0.008	73.0	0.089
-8.0	0.294	3.2	0.786	12.0	0.071	32.5	0.083	53.0	0.003	73.5	0.088
-7.5	0.272	3.4	0.752	12.5	0.034	33.0	0.069	53.5	0.013	74.0	0.086
-7.0	0.235	3.6	0.716	13.0	0.005	33.5	0.054	54.0	0.022	74.5	0.085
-6.5	0.183	3.8	0.679	13.5	0.043	34.0	0.037	54.5	0.031	75.0	0.082
-6.0	0.115	4.0	0.641	14.0	0.078	34.5	0.021	55.0	0.038	75.5	0.080
-5.5	0.034	4.2	0.602	14.5	0.109	35.0	0.004	55.5	0.045	76.0	0.078
-5.0	0.060	4.4	0.562	15.0	0.135	35.5	0.011	56.0	0.049	76.5	0.075
-4.5	0.162	4.6	0.521	15.5	0.153	36.0	0.025	56.5	0.053	77.0	0.072
-4.0	0.272	4.8	0.480	16.0	0.164	36.5	0.037	57.0	0.055	77.5	0.069
-3.5	0.384	5.0	0.439	16.5	0.168	37.0	0.046	57.5	0.056	78.0	0.066
-3.0	0.496	5.2	0.398	17.0	0.164	37.5	0.053	58.0	0.055	78.5	0.063
-2.8	0.540	5.4	0.357	17.5	0.154	38.0	0.057	58.5	0.053	79.0	0.060
-2.6	0.583	5.6	0.316	18.0	0.137	38.5	0.058	59.0	0.050	79.5	0.057
-2.4	0.625	5.8	0.277	18.5	0.116	39.0	0.056	59.5	0.046	80.0	0.054
-2.2	0.666	6.0	0.238	19.0	0.091	39.5	0.051	60.0	0.041	80.5	0.052
-2.0	0.706	6.2	0.200	19.5	0.064	40.0	0.044	60.5	0.035	81.0	0.049
-1.8	0.743	6.4	0.164	20.0	0.037	40.5	0.035	61.0	0.028	81.5	0.046
-1.6	0.779	6.6	0.129	20.5	0.010	41.0	0.023	61.5	0.021	82.0	0.044
-1.4	0.812	6.8	0.096	21.0	0.014	41.5	0.011	62.0	0.013	82.5	0.041
-1.2	0.843	7.0	0.064	21.5	0.036	42.0	0.002	62.5	0.005	83.0	0.039
-1.0	0.872	7.2	0.034	22.0	0.053	42.5	0.016	63.0	0.003	83.5	0.037
-0.8	0.898	7.4	0.006	22.5	0.066	43.0	0.030	63.5	0.011	84.0	0.034
-0.6	0.922	7.6	0.019	23.0	0.073	43.5	0.043	64.0	0.019	84.5	0.033
-0.4	0.942	7.8	0.043	23.5	0.075	44.0	0.056	64.5	0.029	85.0	0.031
-0.2	0.960	8.0	0.065	24.0	0.072	44.5	0.067	65.0	0.037	85.5	0.029
0.0	0.974	8.2	0.084	24.5	0.064	45.0	0.076	65.5	0.044	86.0	0.028
0.2	0.985	8.4	0.101	25.0	0.052	45.5	0.084	66.0	0.051	86.5	0.026
0.4	0.994	8.6	0.115	25.5	0.037	46.0	0.089	66.5	0.057	87.0	0.025
0.6	0.998	8.8	0.128	26.0	0.019	46.5	0.093	67.0	0.063	87.5	0.024
0.8	1.000	9.0	0.138	26.5	0.000	47.0	0.095	67.5	0.069	88.0	0.023
1.0	0.998	9.2	0.146	27.0	0.021	47.5	0.094	68.0	0.073	88.5	0.022
1.2	0.994	9.4	0.151	27.5	0.040	48.0	0.091	68.5	0.078	89.0	0.021
1.4	0.986	9.6	0.155	28.0	0.059	48.5	0.087	69.0	0.081	89.5	0.021
1.6	0.974	9.8	0.156	28.5	0.075	49.0	0.080	69.5	0.084	90.0	0.020
1.8	0.960	10.0	0.156	29.0	0.089	49.5	0.072	70.0	0.086		
2.0	0.943	10.2	0.154	29.5	0.099	50.0	0.063	70.5	0.088		
2.2	0.923	10.4	0.151	30.0	0.105	50.5	0.053	71.0	0.089		