

**ANALYSIS OF POTENTIAL 2nd/3rd ADJACENT INTERFERENCE**  
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**FM ANTENNA**

NUMBER OF ELEMENTS: 3  
 SPACING BETWEEN ELEMENTS: 324.0 ELECTRICAL DEGREES 0.90  
 MECHANICAL TILT: 0.00 DEGREES DOWN  
 CENTER OF RADIATION: 410. FEET AGL

EFFECTIVE RADIATED POWER: **0.075 KW**

THE FOLLOWING SIGNAL LEVELS ARE COMPUTED AT: 30. FEET AGL

INTERFERING CONTOUR: 102.5 dBu free space  
 DISTANCE TO CONTOUR: 1494.5 feet 0.28 miles

DISTANCE FROM (FEET)		ANGLE	FIELD	dBu at OBSERVATION POINT	
TOWER	ANTENNA	(DEGREES)	RATIO	WORST CASE	EXPECTED
*****	*****	*****	*****	*****	*****
25.0	380.8	86.24	0.057	114.375+	89.489
75.0	387.3	78.84	0.160	114.228+	98.325
125.0	400.0	71.79	0.232	113.948+	101.249
175.0	418.4	65.27	0.254	113.559+	101.661
225.0	441.6	59.37	0.222	113.089+	100.006
275.0	469.1	54.11	0.144	112.565+	95.748
325.0	500.0	49.46	0.042	112.010+	84.472
375.0	533.9	45.38	0.063	111.441+	87.427
425.0	570.1	41.80	0.154	110.871+	94.609
475.0	608.3	38.66	0.221	110.307+	97.195
525.0	648.1	35.90	0.262	109.757+	98.118
575.0	689.2	33.46	0.278	109.223+	98.101
625.0	731.5	31.30	0.273	108.706+	97.430
675.0	774.6	29.38	0.252	108.208+	96.225
725.0	818.6	27.66	0.218	107.729+	94.507
775.0	863.1	26.12	0.176	107.268+	92.202
825.0	908.3	24.73	0.129	106.825+	89.070
875.0	954.0	23.47	0.080	106.399+	84.418
925.0	1000.0	22.33	0.029	105.990+	75.116
975.0	1046.4	21.29	0.022	105.595+	72.544
1025.0	1093.2	20.34	0.072	105.216+	82.370
1075.0	1140.2	19.47	0.120	104.850+	86.450
1125.0	1187.4	18.66	0.166	104.497+	88.919
1175.0	1234.9	17.92	0.210	104.157+	90.614
1225.0	1282.6	17.23	0.252	103.828+	91.852
1275.0	1330.4	16.60	0.291	103.510+	92.791
1325.0	1378.4	16.00	0.328	103.202+	93.520
1375.0	1426.5	15.45	0.363	102.904+	94.095
1425.0	1474.8	14.93	0.395	102.615+	94.551
1475.0	1523.2	14.45	0.426	102.335	94.916
1525.0	1571.6	13.99	0.454	102.063	95.207

VERTICAL FORM FACTOR BASED UPON: COSINE DISTRIBUTION

BELOW RATIO BY 0.74 dB Max ERP is 89.0 Watts

## FIGURE 3

### 2nd & 3rd Contour Overlap Analysis - Ch. 287 Amendment to Change Channels 286D to 287D



K287AY - 75 Watts  
 Fac ID: 156299 - Austin, TX  
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