

Interference Study – 89.9
 Alice, TX
27-45-11.3 / 98-8-20.2
 AGL 112 Mtrs
 .112 KW
 Tower #1045026

Statio	Service/Km	Interference/Km	Int db	Distance	Clear
20071022AXT	5.636	.384	100	19.858	13.838

KLUX ** THE PROPOSED FM TRANSLATOR IS LOCATED WITHIN THE PROTECTED 60 DBU CONTOUR OF SECOND ADJACENT CHANNEL STATION KLUX, CHANNEL 208C1, CORPUS CHRISTI, TX. THE PREDICTED F(50,50) FIELD STRENGTH OF KLUX AT THE PROPOSED TRANSLATOR SITE IS 65.762 DBU. THEREFORE THE RESPECTIVE PREDICTED INTERFERING CONTOUR GENERATED BY THE PROPOSED FM TRANSLATOR IS 105.762 DBU. THIS INTERFERING CONTOUR EXTENDS LESS THAN 230 METERS FROM THE PROPOSED TRANSMIT ANTENNA, AND THE AREA OF OVERLAP HAS NO POPULATION AS IT DOES NOT REACH THE GROUND. THE CALCULATION FOR DEPRESSION ANGLES AND THE MANUFACTURER'S RADIATION VALUES TABLE IS ATTACHED.

KJMA	61.095	11.358	54	134.38	61.927
20071019ABS	28.66	11.358	54	88.69	48.672
20071019AYV	75.569	11.358	54	173.58	86.653
20071019AUG	33.935	11.358	54	153.89	108.597
KTSW	30.87	27.084	40	218.41	160.456
K210DF	11.438	27.084	40	294.01	255.488
KBNL	62.287	27.084	40	143.13	237.59
KTLZ	23.586	27.084	40	163.46	112.79
KHDO Lic	5.719	27.084	40	204.56	171.757
20071018AVA	39.696	27.084	40	121.54	54.76
20090402AQA	35.136	27.084	40	272.28	210.06

KHDO-APP	6.528	27.084	40	201.90	168.288
K211DR	6.274	11.358	54	158.05	140.418
KSYM	17.785	11.358	54	191.01	128.907
XHRYS	18.429	11.358	54	188.06	158.273

KEDT ** THE PROPOSED FM TRANSLATOR IS LOCATED WITHIN THE PROTECTED 60 DBU CONTOUR OF SECOND ADJACENT CHANNEL STATION KEDT, CHANNEL 212C1, CORPUS CHRISTI, TX. THE PREDICTED F(50,50) FIELD STRENGTH OF KEDT AT THE PROPOSED TRANSLATOR SITE IS 64.301 DBU. THEREFORE THE RESPECTIVE PREDICTED INTERFERING CONTOUR GENERATED BY THE PROPOSED FM TRANSLATOR IS 104.321 DBU. THIS INTERFERING CONTOUR EXTENDS LESS THAN 230 METERS FROM THE PROPOSED TRANSMIT ANTENNA, AND THE AREA OF OVERLAP HAS NO POPULATION AS IT DOES NOT REACH THE GROUND. THE CALCULATION FOR DEPRESSION ANGLES AND THE MANUFACTURER'S RADIATION VALUES TABLE IS ATTACHED.

20071018ATZ	41.244	.384	100	109.13	67.502
-------------	--------	------	-----	--------	--------



BK077

Vertical	-66	0.297	54	0.479	174	0.468
Values	-63	0.345	57	0.436	177	0.479
-180 0.487	-60	0.391	60	0.391		
-177 0.478	-57	0.436	63	0.345		
-174 0.467	-54	0.479	66	0.297		
-171 0.460	-51	0.523	69	0.253		
-168 0.454	-48	0.568	72	0.211		
-165 0.447	-45	0.616	75	0.176		
-162 0.439	-42	0.661	78	0.145		
-159 0.429	-39	0.706	81	0.120		
-156 0.419	-36	0.745	84	0.105		
-153 0.402	-33	0.783	87	0.100		
-150 0.385	-30	0.818	90	0.105		
-147 0.369	-27	0.852	93	0.118		
-144 0.359	-24	0.881	96	0.134		
-141 0.350	-21	0.910	99	0.151		
-138 0.338	-18	0.934	102	0.168		
-135 0.326	-15	0.954	105	0.185		
-132 0.314	-12	0.972	108	0.202		
-129 0.303	-9	0.987	111	0.219		
-126 0.290	-6	0.999	114	0.236		
-123 0.278	-3	0.999	117	0.252		
-120 0.265	0	1.000	120	0.265		
-117 0.251	3	0.999	123	0.278		
-114 0.236	6	0.999	126	0.290		
-111 0.218	9	0.987	129	0.304		
-108 0.202	12	0.972	132	0.314		
-105 0.185	15	0.954	135	0.327		
-102 0.168	18	0.934	138	0.338		
-99 0.151	21	0.910	141	0.350		
-96 0.134	24	0.881	144	0.360		
-93 0.118	27	0.852	147	0.370		
-90 0.105	30	0.818	150	0.386		
-87 0.100	33	0.783	153	0.403		
-84 0.105	36	0.745	156	0.420		
-81 0.120	39	0.706	159	0.430		
-78 0.145	42	0.661	162	0.440		
-75 0.176	45	0.616	165	0.448		
-72 0.211	48	0.568	168	0.455		
-69 0.253	51	0.523	171	0.461		

Better than SWR

Depression	Antenna Relative		Distance to	Horizontal Distance of	Vertical Clearance
Angle Below	Field	ERP (watts)	Interfering Contour	Interfering Contour	of
Horizontal			from Antenna (m)	from Tower (m)	Interfering Contour
					above TGL (m)
5	.999	29	230	229.1	92.0
10	.982	28	226	222.6	72.7
15	.954	27	222	214.4	44.5
20	.918	25	214	201.1	37.8
25	.871	22	201	182.2	27.1
30	.818	20	191	165.4	16.5
35	.758	17	176	144.2	11.1
40	.691	14	160	122.6	9.2
45	.616	11	142	100.0	12.0
50	.538	8	121	77.7	19.4
55	.465	6	105	60.2	25.0
60	.391	4	86	43.0	37.5
65	.313	2	60	25.3	57.6
70	.239	1	43	14.7	71.6
75	.176	<1	<43	<14.7	Does
80	.128	<1	<43	<14.7	Not
85	.103	<1	<43	<14.7	Reach
90	.105	<1	<43	<14.7	Ground
Minimum Clearance above TGL:					9.2 m