

# Engineering Tools

## Overlap Evaluation



### Legend

Subject Station:0000014044

Site ID: 1, 41 dBu F(5090)

Study Station:BLCDT-20021118ACF

Site ID: 1, 41 dBu F(5090) Distance from Subject Station:0 (km)

**Subject Station: 0000014044**

**Call Sign:** KMEX-DT  
**Service:** Digital TV Auxiliary  
**Status:** Pending  
**Authorization Type:** CP  
**Channel:** 34

### Site 1:

**NAD83 Coordinates:** 34 13' 36.1" N 118 4' 2.3" W  
**Antenna Type:** Directional Custom  
**Rotation:** 0  
**Effective ERP:** 255 kW

**RCAMSL (Radiation center-above mean sea level.):**1838.6 meters

**HAAT (Antenna Height Above Average Terrain.):**956 meters

**RCAGL (Radiation Center-Above Ground Level.):**98 meters

### Directional Antenna Relative Field Values (Pre-rotated Pattern)

Rad	Field	ERP	Rad	Field	ERP	Rad	Field	ERP	Rad	Field	ERP
0	0.412	43.28472	90	0.947	228.68629	180	0.312	24.82272	270	0.562	80.54022
10	0.582	86.37462	100	0.896	204.71808	190	0.333	28.2767	280	0.616	96.76128
20	0.693	122.46349	110	0.854	185.97558	200	0.343	30.0005	290	0.744	141.15168
30	0.631	101.53105	120	0.796	161.57208	210	0.334	28.44678	300	0.808	166.48032
40	0.452	52.09752	130	0.713	129.63409	220	0.312	24.82272	310	0.872	193.89792
50	0.426	46.27638	140	0.554	78.26358	230	0.292	21.74232	320	0.936	223.40448
60	0.655	109.40138	150	0.405	41.82638	240	0.304	23.56608	330	0.915	213.49238
70	0.872	193.89792	160	0.325	26.93438	250	0.357	32.49949	340	0.734	137.38278
80	1.0	255.0	170	0.297	22.49329	260	0.467	55.6127	350	0.476	57.77688

**Study Station 1 : BLCDT-20021118ACF****File Information:**

**Call Sign:** KMEX-DT  
**Service:** Full Service Television  
**Status:** Granted  
**Authorization Type:** License  
**Channel:** 35

**Site 1:**

**NAD83 Coordinates:** 34 13' 36.1" N 118 4' 2.3" W  
**Antenna Type:** Directional Custom  
**Rotation:** 0  
**Effective ERP:** 400 kW

**RCAMSL (Radiation center-above mean sea level.):**1839 meters

**HAAT (Antenna Height Above Average Terrain.):**956 meters

**RCAGL (Radiation Center-Above Ground Level.):**98 meters

**Directional Antenna Relative Field Values (Pre-rotated Pattern)**

Rad	Field	ERP	Rad	Field	ERP	Rad	Field	ERP	Rad	Field	ERP
0	0.313	39.1876	90	0.911	331.9684	180	0.475	90.25	270	0.857	293.7796
10	0.429	73.6164	100	0.944	356.4544	190	0.464	86.1184	280	0.868	301.3696
20	0.52	108.16	110	0.974	379.4704	200	0.457	83.5396	290	0.884	312.5824
30	0.479	91.7764	120	1.0	400.0	210	0.459	84.2724	300	0.878	308.3536
40	0.344	47.3344	130	0.976	381.0304	220	0.468	87.6096	310	0.868	301.3696
50	0.332	44.0896	140	0.867	300.6756	230	0.496	98.4064	320	0.849	288.3204

Rad	Field	ERP	Rad	Field	ERP	Rad	Field	ERP	Rad	Field	ERP
60	0.51	104.04	150	0.73	213.16	240	0.557	124.0996	330	0.764	233.4784
70	0.706	199.3744	160	0.601	144.4804	250	0.663	175.8276	340	0.577	133.1716
80	0.837	280.2276	170	0.515	106.09	260	0.77	237.16	350	0.364	52.9984