

## Exhibit 12-2 ERP Determination

10/14/2004

The maximum HAAT in the 12 evenly spaced radials is 79.1 meters in the 60° radial. The MERP for this HAAT pursuant to § 74.1235 is 0.250 kW. The specified ERP in this instant application is 0.250 kW only in the 207° radial, as a directional antenna is proposed. This proposal *is not* within the Canadian or Mexican Border zones.

**Predicted distances to the 60-dBu contour are illustrated in the chart below.**

Channel 258 (99.5 MHz)

HAAT: 62.9 m (avg. of 12 evenly spaced radials)

RCAMSL: 492.0m

Terrain Data Source: USGS 3-Sec DEM (DMA)

Coordinates: 43° 25' 45" NL 95°0' 46" WL

Directional Antenna Orientation: 207°

ERP (in all directions:) 0.250 kW

Az	Avg. Elev. (m)	ERP (kW)	HAAT (m)	Dist to 60 dBu F(50,50)
0°	431.9	0.0004	60.1	2.6 km
30°	419.8	0.0004	72.2	2.7 km
<b>60°</b>	<b>416.7</b>	<b>0.0004</b>	<b>75.3</b>	<b>2.8 km</b>
90°	418.6	0.00004	73.4	1.5 km
120°	423.8	0.00004	68.2	1.5 km
150°	423.1	0.0015	68.9	3.0 km
180°	427.7	0.1222	64.3	8.7 km
<b>210°</b>	<b>435.0</b>	<b>0.244</b>	<b>57.0</b>	<b>9.8 km</b>
240°	446.8	0.0885	45.2	6.7 km
270°	452.4	0.0009	39.6	2.1 km
300°	457.2	0.00003	34.8	1.4 km
330°	423.4	0.00005	68.6	1.6 km

### **Predicted 60 dBu F(50,50) Contour**

