

# The Refuge

## Positive Hit Music

### Exhibit 12-2 ERP Determination

7/18/2003

Since the location of this instant application is WEST of the Mississippi River and beyond 320 km from the Canadian and Mexican borders, the maximum ERP (MERP) is determined by the chart in § 74.1235(b)(2). The maximum HAAT in the 12 evenly spaced radial directions is **37.1 m (210°)**. According to the chart, the MERP for said HAAT is 0.250 kW. Since this instant application proposes 0.250 kW, it is in compliance with the power limitations set forth in § 74.1235.

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

Channel 241(96.1 MHz)

RCAMSL: 333.0 m

HAAT: 18.1 m (avg. of 12 evenly spaced radials)

Terrain data source: FCC 30-Sec DEM (NGDC)

North Lat: 44° 40' 0"

West Long: 95° 2' 16"

Antenna: Non-DA

ERP (in all directions:) 0.250 kW

Az	Avg. Elev. (m)	HAAT (m)	Dist to 60 dBu F(50,50)
0°	321.9	11.1	7.1 km
30°	324.4	8.6	7.1 km
60°	330.5	2.5	7.1 km
90°	324.1	8.9	7.1 km
120°	320.0	13.0	7.1 km
150°	304.9	28.1	7.1 km
180°	296.7	36.3	7.7 km
<b>210°</b>	<b>295.9</b>	<b>37.1</b>	<b>7.8 km</b>
240°	302.7	30.3	7.1 km
270°	317.7	15.3	7.1 km
300°	320.1	12.9	7.1 km
330°	319.8	13.2	7.1 km

