

# The Refuge

## Positive Hit Music

### Exhibit 12-2 ERP Determination

4/30/2004

The maximum HAAT in the 12 evenly spaced radials is 82.3 meters in the 90° radial. The specified ERP in this instant application is 0.250 kW (in all directions.) Therefore it complies with the power limitations set forth in § 74.1235, which allows a maximum ERP of 0.250 kW for the specified height. 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 240 (95.9 MHz)  
 RCAMSL: 375.0 m  
 HAAT: 63.0 m (avg. of 12 evenly spaced radials)  
 Terrain data source: FCC 30-Sec DEM (NGDC)

North Lat: 44° 32' 28"  
 West Long: 95° 10' 58"  
 Antenna: Non-DA  
 ERP (in all directions): 0.250 kW

Az	Avg. Elev. (m)	HAAT (m)	Dist to 60 dBu F(50,50)
0°	302.5	72.5	11.1km
30°	303.2	71.8	11.0 km
60°	293.9	81.1	11.7 km
<b>90°</b>	<b>292.7</b>	<b>82.3</b>	<b>11.7 km</b>
120°	317.5	57.5	10.0 km
150°	320.0	55.0	9.8 km
180°	325.3	49.7	9.2 km
210°	325.0	50.0	9.3 km
240°	318.4	56.6	9.9 km
270°	318.9	56.1	9.9 km
300°	320.0	55.0	9.8 km
330°	306.9	68.1	10.8 km

#### **K241AQ Proposed 60 dBu F(50,50) Contour**

