



Exhibit 12-3
ERP Determination

7/14/2003

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 **66.9 m (90°)**. According to the chart, the MERP for said HAAT is 0.250 kW. This instant application proposes an ERP of 0.099 kW, therefore 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 286 (105.1 MHz)
Coordinates: 43° 33' 37" NL 96°49' 53" WL
HAAT: 44.6 m (avg. of 12 evenly spaced radials)
Terrain data source: FCC 30-Sec DEM (NGDC)
Antenna: Non-DA
ERP (in all directions:) 0.099 kW
RCAMSL: 502.0 m

Az	Avg. Elev. (m)	HAAT (m)	Dist to 60 dBu F(50,50)
0°	463.0	39.0	6.4
30°	458.2	43.8	6.7
60°	439.2	62.8	8.1
90°	435.1	66.9	8.4
120°	441.4	60.6	8.0
150°	454.9	47.1	7.0
180°	453.5	48.5	7.1
210°	450.8	51.2	7.3
240°	471.5	30.5	5.7
270°	481.2	20.8	5.6
300°	476.0	26.0	5.6
330°	463.8	38.2	6.3

425 West Superior Street - Suite 300 - Duluth, MN 55802-1504

Phone (218) 722-3017 Toll Free (866) 722-3017 Fax: (218) 722-1650 www.RefugeRadio.com

"The Refuge" is a radio ministry of **Refuge Media Group**