



## Engineering Statement

A search of the FCC FM database was performed to determine which stations provide a city grade signal contour coverage (60 DBUv) to Grand Portage, MN. The search revealed that no stations provided the required signal level to Grand Portage. Figure 1 shows the proposed signal contour as well as the contours of stations presently operating within 100 km from the center of Grand Portage..

The proposed new facility will serve an area of 1,035 sq km with a population of 547 people within the city grade coverage area. The only overlap area between any existing stations occurs over water.

As can be seen in this figure the instant proposal will provide First service to all of Grand Portage, MN.

Submitted,

A handwritten signature in black ink that reads "Garrett G. Lysiak". The signature is written in a cursive, flowing style.

Garrett G. Lysiak, P.E.

Prop. model: FCC-EDX  
 Time: 50.0% Loc.: 50.0%  
 Prediction Confidence Margin: 0.0dB  
 Climate: Continental Temperate  
 Land use (clutter): none  
 Atmospheric Abs.: none  
 K Factor: 1.333  
 RX Antenna - Type: OMNI  
 Height: 9.1 m AGL Gain: 0.00 dBd

Reference Grid (spacing: 1 degree)



**OWL ENGINEERING, INC**

CITY GRADE COVERAGE

OCTOBER 12, 2007

FIGURE 1



**AREA = 1,035 SQ KM  
POPULATION = 547**

N48°08'00.00"  
W90°00'00.00"

**NEW**  
Grana Portage

**WTIR**  
Grana Warais

**WATER AREA**

60 dBµV/m

60 dBµV/m

60 dBµV/m

