

# The Refuge

## Positive Hit Music

**Refuge Media Group** 425 W Superior Street, Suite 300 Duluth, MN 55802-1504 218-722-3017  
www.refugeradio.com

### **Exhibit 12-1** **Contour Study for channel 255FX** (Superior, IA Proposal)

7/28/2004

Channel: 255 (98.9 MHz)  
Antenna: Non-directional Circularly Polarized  
ERP: 0.205 kW  
HAAT (Max of 12 evenly spaced radials:) 118.0 m

North Lat: 43° 25' 45"  
West Lon: 95° 0' 46"  
Facility ID #: 83434  
Terrain data source: FCC 30-Sec DEM (NGDC)

Dist to: 60 dBu: 13.3 km 40 dBu F(50,10): 45.2 km 54 dBu F(50,10): 20.0 km 100 dBu F(50,10): 1.0 km

Call	Channel	Class	Frequency	Status	City	State	Country	File Number	Docket
FacilityID	ERP	DA?	HAAT	RCMSL	RCAGL	Latitude	Longitude	ASRN	
<u>KISD</u>	254 C	FM	98.7 MHz	LIC	PIPESTONE	MN	US	BLH-19970506KE	-
<u>70738</u>	100. kW		309. m	828. m	272. m	N 43 53 52.00	W 95 56 50.00	-	-
91.6 km	56.92 mi	305.05°	WALLACE CHRISTENSEN			91.0 km		0.6 km	
Dist to KISD 60 dBu F(50,50) contour in 125° radial: 72.4 km (HAAT = 300.5 m)									
Dist to K252AU prop 54 F(50,10) contour in 305° radial: 18.6 km (HAAT = 104.4 m)									

<u>KEEZ-FM</u>	256 C1	FM	99.1 MHz	LIC	MANKATO	MN	US	BLH-20010420AAG	-
<u>21193</u>	100. kW		239. m	543. m	240. m	N 44 3 6.00	W 94 17 59.00	1220367	-
89.9 km	55.87 mi	39.36°	THREE EAGLES OF LUVERNE, INC.			87.3 km		2.6 km	
Dist to KEEZ 60 dBu F(50,50) contour: 67.3 km									

**Map Showing Lack of Contour Overlap**

