

# The Refuge

## Positive Hit Music

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

### Exhibit 12-1 Allocation Study for channel 215FX

(Hutchinson, MN Proposal)

2/10/2006

Channel: 215 (90.9 MHz)

Antenna: Non-directional Circularly Polarized

ERP: 0.230 kW

North Lat: 44° 53' 9"

West Long: 94° 20' 54"

HAAT (Max of 12 evenly spaced radials:) 58.2 m (150')

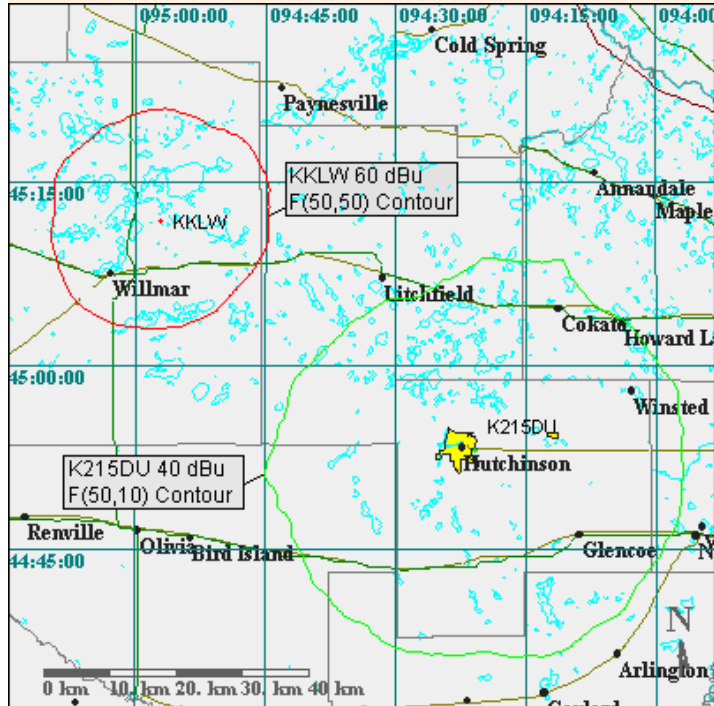
Dist to: **60 dBu** F(50,50):9.8 km **40 dBu** F(50,10):32.8 km **54 dBu** F(50,10): 13.7 km **100 dBu** F(50,10) 1.1 km

Call	Channel	Service	Status	City	State	Country	File Number	Docket
FacilityID	ERP	DA?	HAAT	RCMSL	RCAGL	Latitude	Longitude	ASRN
KGAC	213	C1 FM	90.5 MHz LIC	ST. PETER	MN	US	BLD-19850401KB	-
42910			75. kW	216. m	504. m	201. m	N 44 13 20.00 W 94 7 3.00	-
76.0 km 47.22 mi 166.00° MINNESOTA PUBLIC RADIO								
Dist to 60 dBu F(50,50) contour: 62.5 km						63.6 km		12.4 km

KKLW	215	A	FM	90.9 MHz LIC	WILLMAR	MN	US	BLD-20040204ABY	-
92992				0.4 kW	129. m	491. m	113. m	N 45 11 52.00 W 94 56 58.00	1023385
58.7 km 36.47 mi 306.51° EDUCATIONAL MEDIA FOUNDATION									
Dist to 60 dBu F(50,50) contour: 16.6 km						49.4 km		9.3 km	

KNOW-FM	216	C	FM	91.1 MHz LIC	MINNEAPOLIS-ST. PAUL	MN	US	BMLED-19940420KA	-
42949				100. kW	400. m	677. m	370. m	N 45 3 44.00 W 93 8 21.00	1023882
97.4 km 60.51 mi 77.92° MINNESOTA PUBLIC RADIO									
Dist to 60 dBu F(50,50) contour: 79.8 km						93.5 km		3.9 km	

Map showing no contour overlap with KKLW



Map showing no contour overlap with KNOW-FM

