



Refuge Media Group 4604 Airpark Blvd, Duluth, MN 55811-5751 218-722-3017

Exhibit 12-1 Contour Study for channel 208

(Fairmont, MN Proposal 2/3/2009)

Channel: 208 (89.5 MHz)

Antenna: Non-directional Circularly Polarized

ERP: 0.250 kW (V-pol)

North Lat: 43° 36' 53"

West Long: 94° 31' 4"

HAAT (Max of 12 evenly spaced radials:) 56.3 (60°)

Dist to: **60 dBu** F(50,50) 9.9 km **40 dBu** F(50,10) 30.2 km **54 dBu** F(50,10) 13.7 km **100 dBu** F(50,10) 1.1 km

Call	Channel	Class	Service	Frequency	Status	City	State	Country	File Number
Docket	FacilityID	ERP	DA?	HAAT	RCAMSL	RCAGL	Latitude	Longitude	
ASRN	Dist(km)	Dist(mi)	Azimuth	Licensee/Permittee	Req	Dist			Clear by
KJIA	205	C2	FM	88.9 MHz	LIC	SPIRIT LAKE	IA	US	BLD-20020828AAS
-	92473			50. kW		83. m	530. m	88. m	N 43 20 34.00 W 95 12 24
1202935	63.4 km	39.38 mi	241.68°	MINN-IOWA CHRISTIAN BROADCASTING INC					
Dist to 60 dBu F(50,50) Contour:	41.5 km						42.6 km		20.8 km

NEW	206	A	FM	89.1 MHz	CP	ST. JAMES	MN	US	BNPED-20071022BDM
-	176979			4.7 kW	DA	86. m	424. m	91.5 m	N 43 58 2.00 W 94 39
17.00 1024306	40.7 km	25.28 mi	344.41°	LIGHTHOUSE CHRISTIAN FELLOWSHIP					
Dist to 60 dBu F(50,50) Contour:	24.9 km						26.0 km		14.7 km

K210CG	208	D	FX	89.5 MHz	CP	SPIRIT LAKE	IA	US	BPFT-20071121ADO
-	90145			0.25 kW		69. m*	513. m	57. m	N 43 24 15.00 W 95 3 44
-	49.8 km	30.97 mi	242.11°	REFUGE MEDIA GROUP (NEW BOARD)					
Dist to 60 dBu F(50,50) Contour:	10.8 km						41.0 km		8.8 km
*Avg of 12 evenly spaced radials									

KMSU	209	C2	FM	89.7 MHz	LIC	MANKATO	MN	US	BLD-19850812KH
-	39790			20. kW		122. m	414. m	110. m	N 44 8 34.00 W 94 0 8
-	71.8 km	44.64 mi	34.97°	MANKATO STATE UNIVERSITY					
Dist to 60 dBu F(50,50) Contour:	40.5 km						54.2 km		17.6 km

KMSU	209	C2	FM	89.7 MHz	CP	MANKATO	MN	US	BPED-20070907AED
-	39790			16.8 kW		133. m	424.9 m	121.9 m	N 44 8 31.00 W 94 0 6
1256999	71.8 km	44.61 mi	35.04°	MANKATO STATE UNIVERSITY					
Dist to 60 dBu F(50,50) Contour:	40.4 km						54.1 km		17.7 km

NEW	210	C2	FM	89.9 MHz	APP	ESTHERVILLE	IA	US	BNPED-20071017AGD
-	172644			23. kW	DA	124. m	550. m	87. m	N 43 15 58.00 W 94 53 35
1256724	49.2 km	30.58 mi	218.12°	IOWA LAKES COMMUNITY COLLEGE					
Dist to 60 dBu F(50,50) Contour (in 38° radial):	32.2 km						33.3 km		15.9 km

NEW	211	C3	FM	90.1 MHz	CP	FAIRMONT	MN	US	BNPED-20071022BRF
-	171277			22. kW	DA	69. m	445. m	65. m	N 43 39 25.20 W 94 36
43.10 1037050	8.92 km	5.54 mi	301.91°	MARTIN COUNTY KNIGHTS OF COLUMBUS, INC.					

*Pursuant to CFR 47 Sect 74.1204(a), translators are required to protect only *authorized stations*. At the time of this filing, BNPED-20071022BRF is a pending application and as such this instant translator application is not required to protect this application.

That being stated, however, in the event BNPED-20071022BRF does get granted and begins program tests, Refuge Media Group certifies to comply with the provisions of 47 CFR Section 74.1203 concerning *actual* interference.

Map Showing Lack of Contour Overlap

