

Exhibit 12
Allocation Study for channel 215FT

Channel: 215 (90.9 MHz)
Antenna: Non-directional
ERP: 0.250 kW (H & V)

North Lat: 44° 53' 9"
West Lon: 94° 20' 54"

HAAT (Max of 12 evenly spaced radials :) 60.0 m*

Note: Only stations within 140 km of co-channel, 115 km for 1st adj, 95 km for 2nd & 3rd adj., and 29 km for IF separations are listed. These distances were calculated, pursuant to §74.1204(a)(3) for a maximum translator (250 watts at 107 m HAAT) and a maximum Class C station (100,000 watts @ 600 m HAAT) as follows:

Co-Channel: sum of distance to Max translator 40dBu F(50,10) contour and dist. to Max Class C 60 dBu F(50,50) contour:
45.581 km + 91.818 km = 137.399 km

1st Adjacent: sum of distance to Max translator 54dBu F(50,10) contour and dist. to Max Class C 60 dBu F(50,50) contour:
19.961 km + 91.818 km = 111.779 km

2nd & 3rd Adjacent: sum of dist. to Max translator 100 dBu F(50,10) contour and dist. to Max Class C 60 dBu F(50,50) contour:
1.109 km + 91.818 km = 92.927 km

I.F. separation requirements: Pursuant to §74.1204(g), translators with over 100 watts are treated as Class A stations. The maximum distance is determined by §73.207 comparing a class A station with a class C station which is 29 km.

Call Sign/City	Channel/Freq.	ERP (kW)	HAAT	Lat./Lon.	Distance	Req. Dist.	Clear by
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Nearest Co channel Stations within 140 km:

19981215MB Windom, MN	215C3 (app) 90.9 MHz	25.0 25.0	100 H 100 V	44° 00' 22N 95 ° 12' 9W	119.1 km	73.3 km	45.8 km
19990311MK Willmar, MN	215A (app) 90.9 MHz	0.600 0.600	101 H 101V	45° 11' 52N 94°56' 59W	58.7 km	50.4 km	8.3 km

Nearest 1st Adjacent Stations within 115 km:

K214DF Golden Valley, MN	214FT (lic) 90.7 MHz	0.010 0.010	182 H 182 V	44° 58' 36N 93° 16' 15W	85.7 km	22.0 km	63.7 km
KNOW Minneapolis-St.Paul, MN	216C (lic) 91.1 MHz	100 100	400 H 400 V	45° 03' 44N 93° 08' 21W	97.4 km	93.9 km	3.5 km

Nearest 2nd Adjacent Stations within 95 km:

KGAC St. Peter, MN	213C1 (lic) 90.5 MHz	75 75	216 H 216V	44° 13' 20N 94 ° 07' 3 W	76.0 km	63.6 km	12.4 km
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Nearest 3rd Adjacent Stations within 95 km:

KFAI Minneapolis, MN	212A (lic) 90.3 MHz	0.125 0.125	136H 136V	44° 58' 29N 93° 16' 17W	85.6 km	13.7 km	71.9 km
KNGA St. Peter, MN	218C2 (lic) 91.5 MHz	-0- 8.5	--- H 183 V	44° 13' 20N 94° 07' 3 W	76.0 km	41.5 km	34.5 km
KCFB St. Cloud, MN	218C3 (lic) 91.5 MHz	15.0 15.0	106 H 106 V	45° 30' 2N 94° 14' 31W	68.8 km	37.1 km	31.7 km

Nearest I.F. Stations within 29 km:

-None-

*HAAT calculated in accordance to §73.313 (d).

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Further Study showing lack of contour overlap with station KNOW:

KNOW-FM; BMLD-19940420KA

N. Lat: 45° 3' 44"; W. Lon: 93° 8' 21"

Channel: 216C (91.1 MHz)

ERP: 100 kW

RCAMSL: 677 m

Bearing toward K215DU: 258.8°

Distance to K215DU: 97.4 km

Protected Contour: 60 dBu

Proposed Minor Change for K215DU

N. Lat: 44° 53' 9"; W. Lon: 94° 20' 54"

Channel 215FT (90.9 MHz)

ERP: 0.250 kW

RCAMSL: 378 m

Bearing toward KNOW: 77.9°

Distance to KNOW: 97.4 km

Max Allowed Interference Contour: 54 dBu

<u>Azimuth</u> <u>(degrees)</u>	<u>ERP</u> <u>(kW)</u>	<u>HAAT</u> <u>(m)</u>	<u>Dist</u> <u>(km)</u>
255	100	400.6	79.8
257	100	403.2	80.0
258	100	403.8	80.0
259	100	404.5	80.1
260	100	404.9	80.1
261	100	404.9	80.1
263	100	404.5	80.1

<u>Azimuth</u> <u>(degrees)</u>	<u>ERP</u> <u>(kW)</u>	<u>HAAT</u> <u>(m)</u>	<u>Dist</u> <u>(km)</u>	<u>Signal</u> <u>(dBu)</u>
94.7	0.250	48.9	18.3	48.5
86.1	0.250	49.2	17.4	49.4
81.5	0.250	48.0	17.2	49.3
76.9	0.250	48.3	17.1	49.4
72.2	0.250	49.3	17.1	49.6
67.6	0.250	48.2	17.4	49.1
59.0	0.250	45.4	18.3	47.8

HAAT Source: Dataworld

Conclusion:

At no point on KNOW-FM's protected contour (60 dBu) does this proposal's interference contour exceed the maximum allowed 54 dBu field strength. Therefore this proposal complies with the requirements of §74.1204(a)(3).

Map:

The map included in this exhibit is from the ASD circle plots program printed on a Tiger Census Map. For K215DU's proposal, the radius is 13 km based on 0.250 kW ERP and a HAAT of 50 meters. For KNOW the radius is 81 km based on 100 kW ERP at a HAAT of 405 meters. As shown on the map, there is no prohibited contour overlap.