

Proposed Minor Change Application

This proposed minor change application specifies a correction in the geographical coordinates with changes in the technical parameters as is indicated below:

	LICENSED	PROPOSED MINOR CHANGE
Channel	249 D	249 D
Geographical Coordinates	45 20 20 / 93 23 27	45 20 12 / 93 23 30
ASRN	1242341	1242341
Site AMSL	279.2 m	278.9 m
Tower AGL	345.0 m	345.0 m
COR AGL	303 m	303 m
COR AMSL	582 m	582 m
HAAT	304 m	305 m
ERP	0.250 kW (H&V, non-DA)	0.250 kW (H&V, non-DA)

The below listed pages of this exhibit contains information as indicated.

Page 2 Tabulation of HAAT / ERP / distance to 60 dBu contour
Page 3 60 dBu contour map
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Tabulation of HAAT / ERP / distance to 60 dBu contour

CH 249 45 20 12 / 93 23 30 0.250 kW ERP non-DA 582 m COR AMSL 305 m HAAT

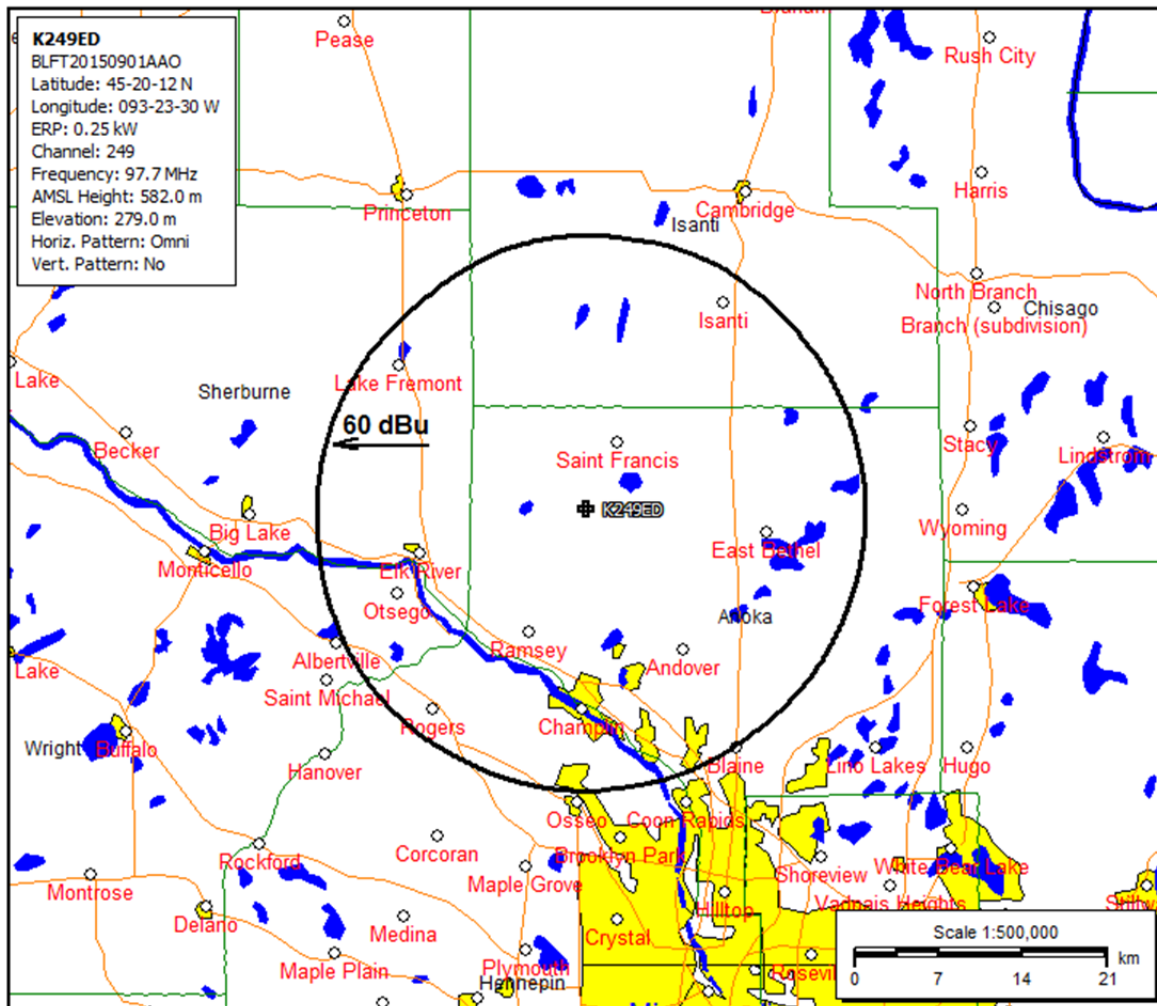
Azi.	AV EL	HAAT	ERP kW	60-F5
000	278.6	303.4	0.2500	22.68
010	281.9	300.1	0.2500	22.56
020	275.6	306.4	0.2500	22.79
030	273.1	308.9	0.2500	22.88
040	276.8	305.2	0.2500	22.75
050	277.8	304.2	0.2500	22.71
060	274.8	307.2	0.2500	22.82
070	273.1	308.9	0.2500	22.88
080	273.0	309.0	0.2500	22.89
090	271.4	310.6	0.2500	22.94
100	271.9	310.1	0.2500	22.92
110	271.6	310.4	0.2500	22.94
120	270.9	311.1	0.2500	22.96
130	270.1	311.9	0.2500	22.99
140	272.1	309.9	0.2500	22.92
150	270.3	311.7	0.2500	22.98
160	267.8	314.2	0.2500	23.07
170	269.2	312.8	0.2500	23.02
180	264.6	317.4	0.2500	23.18
190	266.5	315.5	0.2500	23.12
200	267.7	314.3	0.2500	23.08
210	270.6	311.4	0.2500	22.97
220	269.6	312.4	0.2500	23.01
230	271.1	310.9	0.2500	22.95
240	274.8	307.2	0.2500	22.82
250	280.9	301.1	0.2500	22.60
260	287.4	294.6	0.2500	22.36
270	290.8	291.2	0.2500	22.24
280	290.8	291.2	0.2500	22.24
290	291.5	290.5	0.2500	22.21
300	296.3	285.7	0.2500	22.03
310	298.5	283.5	0.2500	21.95
320	299.6	282.4	0.2500	21.91
330	293.2	288.8	0.2500	22.15
340	284.9	297.1	0.2500	22.45
350	280.9	301.1	0.2500	22.60

FCC NGDC 30 second terrain database

(yellow highlighted values establish average HAAT)

60 dBu Contour Map

The geographical coordinates correction will result in an insignificant change in the 60 dBu contour.



Allocation Study

CH 249 45 20 12 / 93 23 30 0.250 kW ERP non-DA 582 m COR AMSL 305 m HAAT

CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
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Reference station:

249D	K249ED	LIC	14.9	0.25	45 20 20.0	0.250	69.4	23.1		
Albertville		MN	194.9	BLFT20150901AAO	93 23 27.0		582	Educational Media Foundation		

1st, 2nd, & 3rd adjacent channel relationships:

246C	KTCZ-FM	LIC	145.8	37.39	45 03 30.0	100.000	10.4	73.8	4.0	-37.5
Minneapolis		MN	326.0	BLH19910814KC	93 07 27.0	315	593	Amfm Broadcasting Licenses		
248D	W248AS	LIC	24.7	83.01	46 00 51.0	0.055	10.0	6.9	50.2	42.0
Hinckley		MN	205.0	BLFT20061127ADB	92 56 35.0	46	360	Minnesota Public Radio		
248C	KNXR	LIC	149.6	166.35	44 02 28.0	100.000	106.9	73.7	36.5	58.3
Rochester		MN	330.4	BLH19990505KB	92 20 25.0	317	671	Hometown Broadcasting Of R		
248L1	KUOL-LP	CP	179.0	43.78	44 56 34.0	0.050			14.0	4.4
St. Louis Park		MN	359.0	BNPL20131112BDA	93 22 56.0	13	290	Park Public Radio, Inc.		
248L1	KVEX-LP	LIC	292.6	64.08	45 33 17.0	0.045			32.4	24.4
Saint Cloud		MN	112.0	BLL20150130AQS	94 09 00.0	44	364	St Cloud State University		
249A	KLGR-FM	LIC	237.8	163.30	44 32 33.0	3.000	76.7	24.7	63.7	69.8
Redwood Falls		MN	56.6	BLH6258	95 07 57.0	91	400	Digitry 3e License, Llc		
249C3	WAQE-FM	LIC	79.4	129.31	45 32 16.0	15.500	99.4	31.3	7.0	29.1
Barron		WI	260.6	BLH20010412AAH	91 45 50.0	88	455	Tkc, Inc.		
250L1	KEFE-LP	LIC	169.4	70.07	44 43 00.7	0.100			36.0	27.9
Lakeville		MN	349.5	BLL20151104EYG	93 13 42.2	29	322	Rios De Agua Viva Church O		
250L1	KQEP-LP	CP	160.4	43.64	44 58 00.2	0.090			12.8	3.6
St. Paul		MN	340.5	BNPL20131115ADR	93 12 19.8	32	299	New Culture Center In The		
250L1	WRYA-LP	CP	163.7	43.21	44 57 48.2	0.100			12.2	3.0
Minneapolis		MN	343.8	BNPL20131113BHS	93 14 15.9	1	268	African Community Senior S		
251C0	WWJO	LIC	317.3	72.66	45 48 52.0	100.000	10.1	72.3	40.7	-0.8
St. Cloud		MN	136.8	BLH19890117KF	94 01 38.0	305	669	Townsquare Media Licensee		

I.F. relationships:

None

Allocation Study

K249ED is located within the 60 dBu contour of KTCZ-FM and has 100 dBu overlap with the 60 dBu contour of WWJO. EMF respectfully requests a waiver of Section 74.1204(d) based on the showing of no population within the area of predicted interference as is demonstrated in the following information.

KTCZ-FM (LIC), CH 246, Minneapolis, MN

45 03 30 / 93 07 27, 100 kW ERP, 593 m antenna COR AMSL

KTCZ-FM signal strength at K249ED site 77.1 dBu

K249ED corresponding interference contour 117.1 dBu

Distance to K249ED interference contour 154.7 m

K249ED's antenna COR AGL is 303 meters. As the distance to the interference contour is 154.7 meters, the predicted interference will not reach the ground or any population by a margin of 148.3 meters (see map, page 6).

WWJO (LIC), CH 251, St. Cloud, MN

45 48 52 / 94 01 38, 100 kW ERP, 669 m antenna COR AMSL

WWJO signal strength at K249ED site 60 dBu

K249ED corresponding interference contour 100 dBu

Distance to K249ED interference contour 1127.4 m

Per the below chart, utilizing a Nicom BKG77/4 0.5 spaced antenna at 303 meters COR AGL with 0.250 kW ERP the 100 dBu interference contour will not reach the ground or any population (see map, page 6).

Depression Angle from Horizon	Antenna Relative Field	ERP (kw) from the Antenna RF	Dist. To IX Contour (m)	Height IX Contour Above Ground (m)
0	1.000	0.2500	1109.0982	303.000
5	0.964	0.2323	1069.1707	209.816
10	0.859	0.1845	952.7154	137.563
15	0.692	0.1197	767.4960	104.357
20	0.499	0.0623	553.4400	113.712
25	0.305	0.0233	338.2750	160.039
30	0.137	0.0047	151.9465	227.027
35	0.005	0.0000	5.5455	299.819
40	0.082	0.0017	90.9461	244.541
45	0.128	0.0041	141.9646	202.616
50	0.141	0.0050	156.3828	183.204
55	0.133	0.0044	147.5101	182.167
60	0.112	0.0031	124.2190	195.423
65	0.089	0.0020	98.7097	213.539
70	0.065	0.0011	72.0914	235.256
75	0.047	0.0006	52.1276	252.649
80	0.032	0.0003	35.4911	268.048
85	0.025	0.0002	27.7275	275.378
90	0.023	0.0001	25.5093	277.491

Allocation Study

Below is a map showing the K249ED site. As stated above, the predicted interference area will be above the ground and any population as there are no structures tall enough to be within the above-ground predicted interference area.

