

Minor Change Application

This minor change application specifies a change in the antenna make/model, antenna COR AGL & AMSL height, HAAT, and ERP at the same site as is indicated below:

	Licensed	Minor Change
Channel / Class	280 D	280 D
Geographical Coordinates	29 43 50 / 98 07 12	29 43 50 / 98 07 12
ASRN	1053690	1053690
Site AMSL	210.3 m	210.3 m
Tower AGL	134.1 m	134.1 m
COR AGL	99 m	84 m
COR AMSL	309 m	294 m
HAAT	77 m	62 m
ERP	0.097 kW (H&V, non-DA)	0.167 kW (H&V, non-DA)

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

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

CH 280 29 43 50 / 98 07 12 0.167 kW ERP (non-DA) 294 m COR AMSL 62 m HAAT

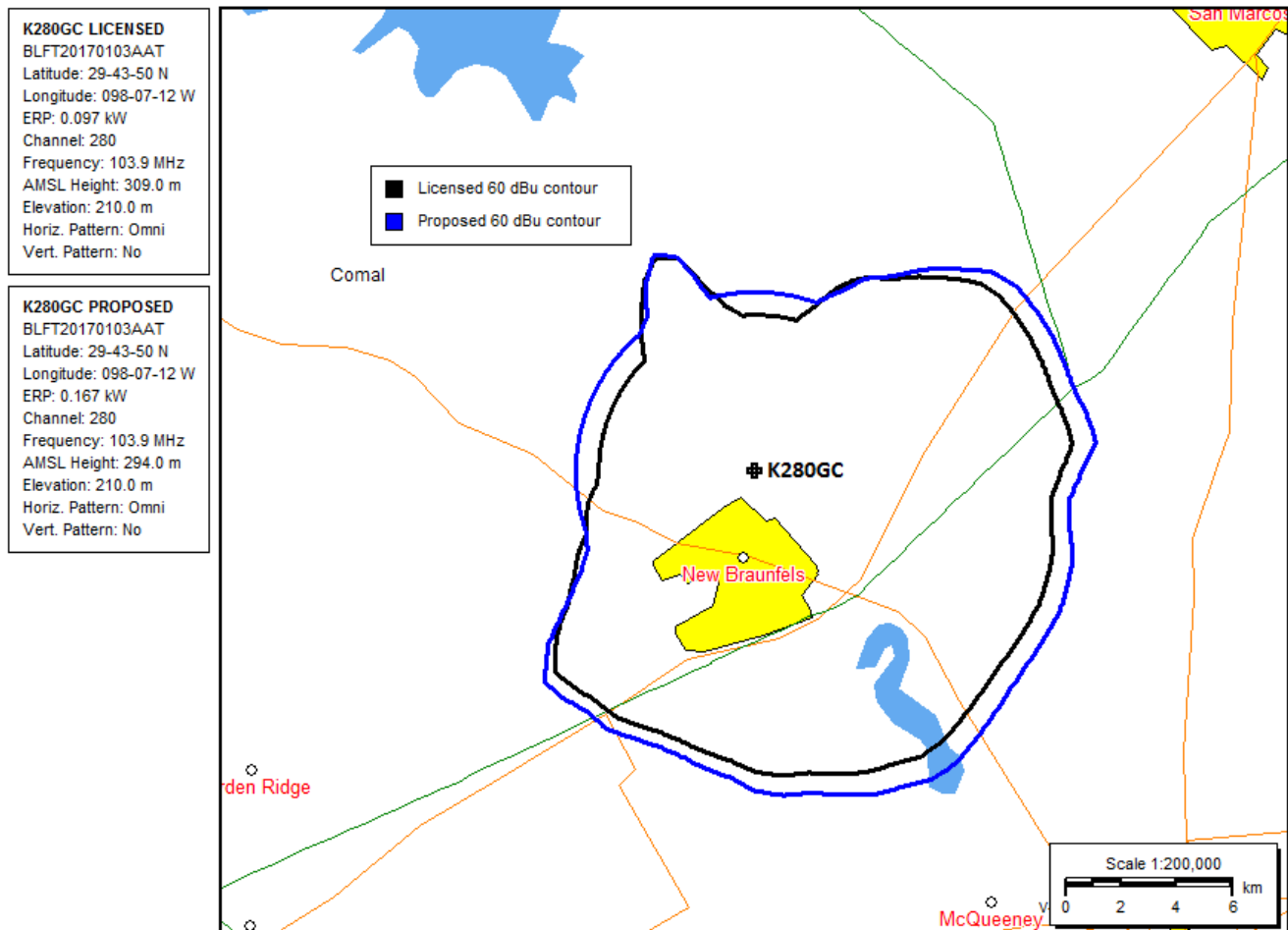
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	285.2	8.8	0.1670	-7.77	1.000	6.41
010	284.0	10.0	0.1670	-7.77	1.000	6.41
020	269.9	24.1	0.1670	-7.77	1.000	6.41
030	243.2	50.8	0.1670	-7.77	1.000	8.39
040	232.5	61.5	0.1670	-7.77	1.000	9.29
050	203.8	90.2	0.1670	-7.77	1.000	11.11
060	196.5	97.5	0.1670	-7.77	1.000	11.53
070	194.1	99.9	0.1670	-7.77	1.000	11.66
080	185.6	108.4	0.1670	-7.77	1.000	12.13
090	194.8	99.2	0.1670	-7.77	1.000	11.63
100	198.9	95.1	0.1670	-7.77	1.000	11.40
110	190.2	103.8	0.1670	-7.77	1.000	11.88
120	189.9	104.1	0.1670	-7.77	1.000	11.90
130	187.9	106.1	0.1670	-7.77	1.000	12.00
140	180.0	114.0	0.1670	-7.77	1.000	12.42
150	172.5	121.5	0.1670	-7.77	1.000	12.79
160	181.6	112.4	0.1670	-7.77	1.000	12.34
170	195.5	98.5	0.1670	-7.77	1.000	11.58
180	201.0	93.0	0.1670	-7.77	1.000	11.28
190	210.1	83.9	0.1670	-7.77	1.000	10.75
200	216.5	77.5	0.1670	-7.77	1.000	10.35
210	213.6	80.4	0.1670	-7.77	1.000	10.53
220	214.1	79.9	0.1670	-7.77	1.000	10.50
230	223.3	70.7	0.1670	-7.77	1.000	9.91
240	252.2	41.8	0.1670	-7.77	1.000	7.50
250	266.0	28.0	0.1670	-7.77	1.000	6.41
260	272.4	21.6	0.1670	-7.77	1.000	6.41
270	281.2	12.8	0.1670	-7.77	1.000	6.41
280	289.5	4.5	0.1670	-7.77	1.000	6.41
290	299.2	-5.2	0.1670	-7.77	1.000	6.41
300	304.7	-10.7	0.1670	-7.77	1.000	6.41
310	286.6	7.4	0.1670	-7.77	1.000	6.41
320	270.5	23.5	0.1670	-7.77	1.000	6.41
330	246.8	47.2	0.1670	-7.77	1.000	8.03
340	240.3	53.7	0.1670	-7.77	1.000	8.66
350	272.1	21.9	0.1670	-7.77	1.000	6.41

FCC 30 second terrain database

(yellow highlighted values establish average HAAT)

60 dBu contour

The 60 dBu contour proposed in this minor change application will have overlap with the licensed 60 dBu contour.



Allocation Study

CH 280 29 43 50 / 98 07 12 0.167 kW ERP (non-DA) 294 m COR AMSL 62 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 in km)	*OUT*
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Reference station:

280D	K280GC	LIC	0.0	0.00	29 43 50.0	0.097		---	Reference---	
New Braunfels		TX	0.0	BLFT20170103AAT	98 07 12.0		309		Educational Media Foundation	

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

277D	K277CX	LIC	225.5	49.40	29 25 06.0	0.185	0.3	9.2	38.5	39.1
Terrell Wells		TX	45.3	BLFT20150227ACL	98 29 01.0		384		Alpha Media Licensee Llc	
278C0	KBPA	LIC	33.4	41.89	30 02 42.0	100.000	11.3	78.0	20.1	-37.0
San Marcos		TX	213.5	BMLH20110913ABR	97 52 50.0	383	608		Emmis Austin Radio Broadcast	
279D	K279AB	LIC	225.5	49.40	29 25 06.0	0.220	13.4	9.6	25.5	25.1
San Antonio		TX	45.3	BLFT20160722ABK	98 29 01.0		384		San Antonio Radioworks, Llc	
280A	KBEY	LIC	350.4	113.88	30 44 25.9	1.800	84.7	30.1	20.5	62.3
Burnet		TX	170.3	BMLH20150120AAJ	98 19 04.4	184	540		Victory Publishing Company	
280C3	KBQQ	CP	127.2	85.78	29 15 45.0	25.000	113.2	38.4	-39.5	5.9
Smiley		TX	307.5	BNPH20151009AID	97 24 55.0	86	168		Rufus Resources, Llc	
280D	K280GN	CP	25.0	72.28	30 19 10.0	0.250	43.8	12.1	18.6	31.1
Austin		TX	205.2	BPFT20170410ACJ	97 48 06.0		329		Mary H. Lopez	
280D	K268CR	CP	280.4	69.16	29 50 26.0	0.180	63.3	20.0	0.0	27.4
Boerne		TX	100.0	BMPFT20170711AAB	98 49 32.0		747		Gab Llc	
280D	K280GN	LIC	25.0	72.28	30 19 10.0	0.170	39.7	11.0	22.7	32.5
Austin		TX	205.2	BLFT20160922AAL	97 48 06.0		329		Mary H. Lopez	
281C1	KSAH-FM	LIC	209.2	128.35	28 43 16.0	100.000	104.4	71.8	13.4	41.8
Pearsall		TX	28.9	BLH20020712AAC	98 45 43.0	299	430		Alpha Media Licensee Llc	
281L1	KOWO-LP	LIC	357.4	22.46	29 55 56.8	0.010			5.3	6.9
Wimberley		TX	177.4	BLL20170928ABN	98 07 50.6	92	406		Wimberley Texan Radio	
281D	KSAH-FM1	LIC	210.2	104.64	28 54 57.4	20.000	70.0	47.2	24.1	42.7
Pearsall		TX	29.9	BLFTB20060327AJE	98 39 39.1		467		Alpha Media Licensee Llc	
282C2	KLQB	LIC	42.7	106.78	30 26 04.0	48.000	6.1	53.0	89.6	52.9
Taylor		TX	223.1	BLH19980616KB	97 21 53.0	150	308		Univision Radio Stations G	
283C1	KZEP-FM	LIC	225.5	49.40	29 25 06.0	100.000	7.9	62.2	31.0	-13.7
San Antonio		TX	45.3	BLH20070830AAX	98 29 01.0	202	408		Citicasters Licenses, Inc.	

I.F. relationships:

227C2	KGSR	CP	20.3	78.09	30 23 26.2	50.000			14.5R	63.6M
Cedar Park		TX	200.4	BPH20180523AAK	97 50 12.7	150	393		Emmis Austin Radio Broadcast	

International Compliance:

K280GC is fully spaced to all Mexican stations and allocations. The K280GC site is located 253.9 km from the border between the U.S. and Mexico. K280GC's 60 dBu will not fall within 116.3 km of the border.

280C	AL9005	VAC	261.3	275.60	29 19 33.0	100.000	197.9	92.0	69.1	162.2
Ciudad Acuna		CI	79.9		100 55 51.0	600	906			

FCC 30 SEC terrain database

Allocation Study

K280GC is located within the 60 dBu contour of the following second/third adjacent stations:

KBPA (LIC), CH 278 CO, San Marcos, TX

KBPA signal strength at the K280GC site	76.3 dBu
K280GC interference contour	116.3 dBu
Distance to K280GC interference contour	139.5 meters

KZEP-FM (LIC), CH 283 C1, San Antonio, TX

KZEP-FM signal strength at the K280GC site	66.2 dBu
K280GC interference contour	106.2 dBu
Distance to K280GC interference contour	445.6 meters

For purposes of this study, the interference contour to KZEP-FM is being used as the worst case situation. The below chart demonstrates that utilizing the below listed antenna the interference contour will not reach the ground, therefore, a waiver of Section 74.1204(d) is respectfully requested based on the showing of no population within the area of predicted interference.

ERP	0.167 kW
Antenna COR AGL height	84 meters
Translator IX contour	106.2
Antenna	Nicom BKG77/4 .5 spaced

<u>Depression Angle from Horizon</u>	<u>Antenna Relative Field</u>	<u>ERP (kw) from the Antenna RF</u>	<u>Dist. To IX Contour (m)</u>	<u>Height IX Contour Above Ground (m)</u>
0	1.000	0.1670	443.9747	84.000
5	0.964	0.1552	427.9916	46.698
10	0.859	0.1232	381.3743	17.775
15	0.692	0.0800	307.2305	4.483
20	0.499	0.0416	221.5434	8.228
25	0.305	0.0155	135.4123	26.772
30	0.137	0.0031	60.8245	53.588
35	0.005	0.0000	2.2199	82.727
40	0.082	0.0011	36.4059	60.599
45	0.128	0.0027	56.8288	43.816
50	0.141	0.0033	62.6004	36.045
55	0.133	0.0030	59.0486	35.630
60	0.112	0.0021	49.7252	40.937
65	0.089	0.0013	39.5137	48.188
70	0.065	0.0007	28.8584	56.882
75	0.047	0.0004	20.8668	63.844
80	0.032	0.0002	14.2072	70.009
85	0.025	0.0001	11.0994	72.943
90	0.023	0.0001	10.2114	73.789

Allocation Study

Map of Site

