

**Technical Exhibit****Minor Modification of Licensed Facility**

This minor modification specifies an increase in the ERP at the licensed site as is indicated below:

	Licensed facility	Minor modification of licensed facility
Channel / Class	243 D	243 D
Geographical Coordinates (NAD 83)	38 48 36.9 104 52 55.9	38 48 36.9 104 52 55.9
ASRN	N/A	N/A
Site elevation	2170.0 m	2170.0 m
Tower AGL	9.1 m	9.1 m
Antenna COR AGL	9.0 m	9.0 m
Antenna COR AMSL	2179.0 m	2179.0 m
HAAT	-176.7 m	-176.7 m
ERP	0.022 kW (H&V, DA)	0.250 kW (H&V, DA)
Antenna	Scala CA2-FM/CP oriented 90 degrees	Scala CA2-FM/CP oriented 103 degrees

This application complies with all engineering standards and requirements of the applicable FCC rules and regulations.

**Technical Exhibit**

**Tabulation of HAAT / ERP / distance to 60 contour**

CH 243      38 48 36.9 / 104 52 55.9      0.250 kW ERP (H&V, DA)      2179.0 m COR AMSL      -176.7 m HAAT

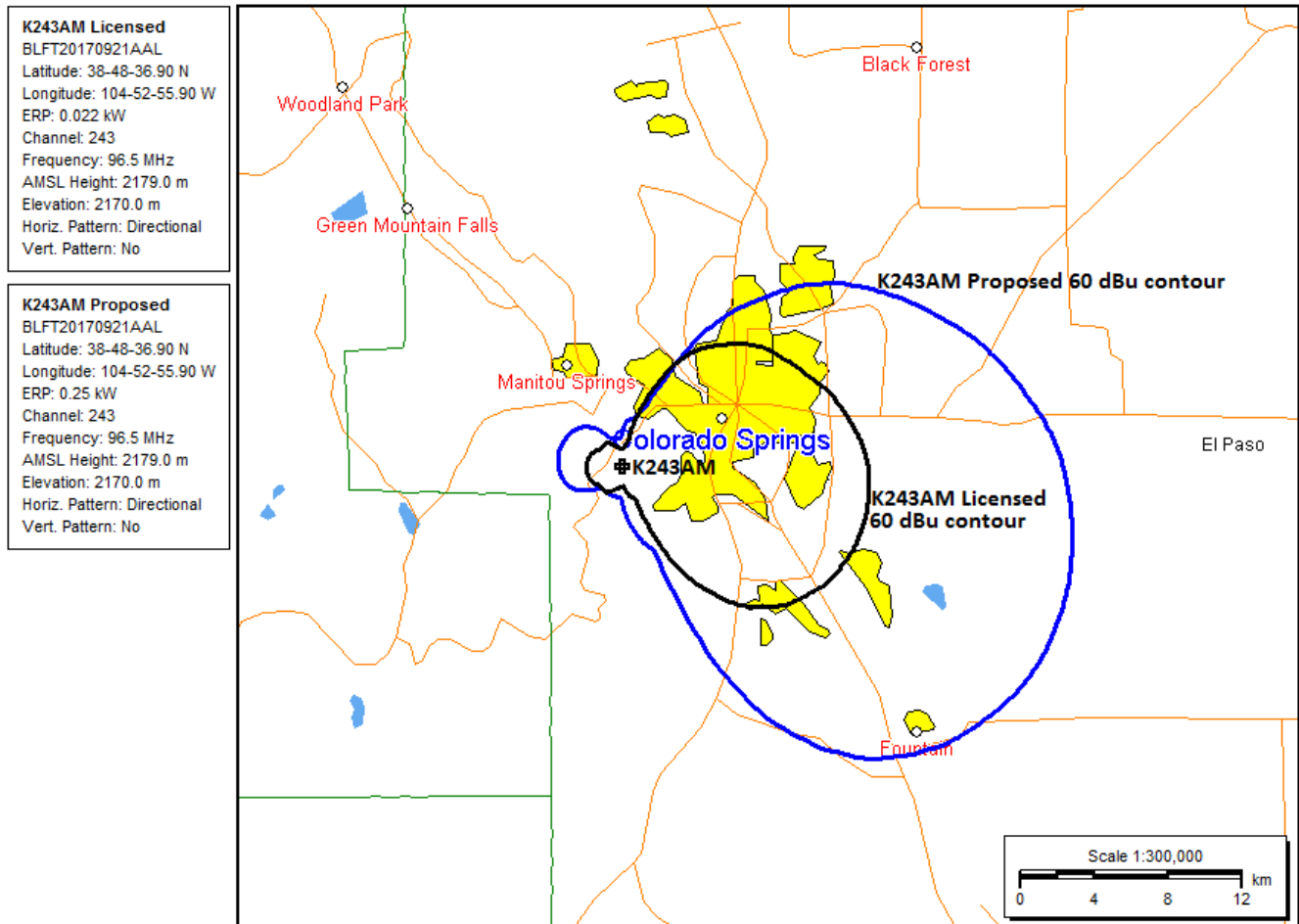
Azi.	AV EL	HAAT	ERP kW	dBk	Field	60-F5
000	2082.5	96.5	0.0003	-35.39	0.034	2.22
010	1980.7	198.3	0.0002	-36.19	0.031	2.66
020	1933.5	245.5	0.0004	-33.76	0.041	3.45
030	1906.0	273.0	0.0052	-22.85	0.144	8.07
040	1917.2	261.8	0.0269	-15.70	0.328	12.07
050	1905.0	274.0	0.0663	-11.78	0.515	15.38
060	1902.0	277.0	0.1126	-9.49	0.671	17.81
070	1879.9	299.1	0.1580	-8.01	0.795	20.17
080	1858.4	320.6	0.1994	-7.00	0.893	22.07
090	1834.0	345.0	0.2309	-6.37	0.961	23.67
100	1819.7	359.3	0.2470	-6.07	0.994	24.52
103	1815.4	363.6	0.2500	-6.02	1.000	24.73
110	1808.0	371.0	0.2426	-6.15	0.985	24.78
120	1803.1	375.9	0.2200	-6.58	0.938	24.35
130	1815.7	363.3	0.1832	-7.37	0.856	22.93
140	1854.2	324.8	0.1403	-8.53	0.749	20.40
150	1942.9	236.1	0.0939	-10.27	0.613	15.56
160	2164.9	14.1	0.0491	-13.09	0.443	4.68
170	2310.4	-131.4	0.0153	-18.17	0.247	3.49
180	2392.1	-213.1	0.0019	-27.13	0.088	2.15
190	2529.9	-350.9	0.0003	-35.39	0.034	1.61
200	2726.5	-547.5	0.0002	-36.19	0.031	1.61
210	2881.9	-702.9	0.0003	-34.89	0.036	1.61
220	2996.5	-817.5	0.0005	-33.35	0.043	1.61
230	3018.9	-839.9	0.0009	-30.60	0.059	1.75
240	3116.8	-937.8	0.0035	-24.51	0.119	2.47
250	3220.5	-1041.5	0.0085	-20.72	0.184	3.02
260	3295.2	-1116.2	0.0125	-19.02	0.224	3.33
270	3269.1	-1090.1	0.0150	-18.24	0.245	3.48
280	3267.1	-1088.1	0.0165	-17.82	0.257	3.56
290	3060.8	-881.8	0.0160	-17.96	0.253	3.54
300	2785.1	-606.1	0.0143	-18.45	0.239	3.44
310	2613.0	-434.0	0.0112	-19.49	0.212	3.25
320	2319.6	-140.6	0.0064	-21.94	0.160	2.84
330	2353.1	-174.1	0.0019	-27.13	0.088	2.15
340	2410.6	-231.6	0.0007	-31.70	0.052	1.63
350	2317.8	-138.8	0.0004	-33.98	0.040	1.61

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 GLOBE terrain data  
 (yellow highlighted values establish average HAAT)

Technical Exhibit

**Licensed and proposed 60 dBu contour coverage map**

The proposed 60 dBu contour will continue to overlap the licensed 60 dBu contour.



GLOBE terrain data

**Technical Exhibit**

**Allocation Study**

CH 243 38 48 36.9 / 104 52 55.9 0.250 kW ERP (H&V, DA) 2179.0 m COR AMSL -176.7 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*
<b><u>Reference station:</u></b>										
243D	K243AM	LIC	0.0	0.00	38 48 36.90	0.022				
Colorado Springs	CO		269.0	BLFT20170921AAL	104 52 55.90		2179	Educational Media Foundation		

**Co-channel, 1<sup>st</sup>, 2<sup>nd</sup>, & 3<sup>rd</sup> channel relationships:**

241C2	KIBT	LIC	166.4	7.40	38 44 43.90	0.460	1.5	43.3	-0.4	-36.3
Fountain	CO		346.5	BLH20060503AAK	104 51 43.90	661	2872	Amfm Texas Licenses LLC		
243C2	KBKZ	LIC	169.8	205.24	36 59 33.10	5.400	122.8	51.8	65.4	139.7
Raton	NM		350.1	BLH20040927AEI	104 28 26.00	295	2609	Phillips Broadcasting Comp		
243C	KXPK	LIC	331.8	109.37	39 40 32.90	100.000	206.4	92.9	-100.6	4.2
Evergreen	CO		151.4	BLH20170718AAB	105 29 08.90	526	3272	Entravision Holdings, LLC		
243D	K243CI	LIC	163.7	63.04	38 15 57.00	0.250	23.8	7.1	21.3	26.2
Pueblo	CO		343.8	BLFT20170420AAA	104 40 45.90		1507	Catholic Radio Network, Inc.		
245C	KCCY-FM	LIC	166.3	7.43	38 44 42.90	72.000	14.2	97.8	-15.3	-90.7
Pueblo	CO		346.3	BLH19940217KC	104 51 42.90	695	2946	Capstar Tx, LLC		

**I.F.:**

None

GLOBE terrain data

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**Allocation Study**

K243AM as proposed is located within the protected contour of the following stations:

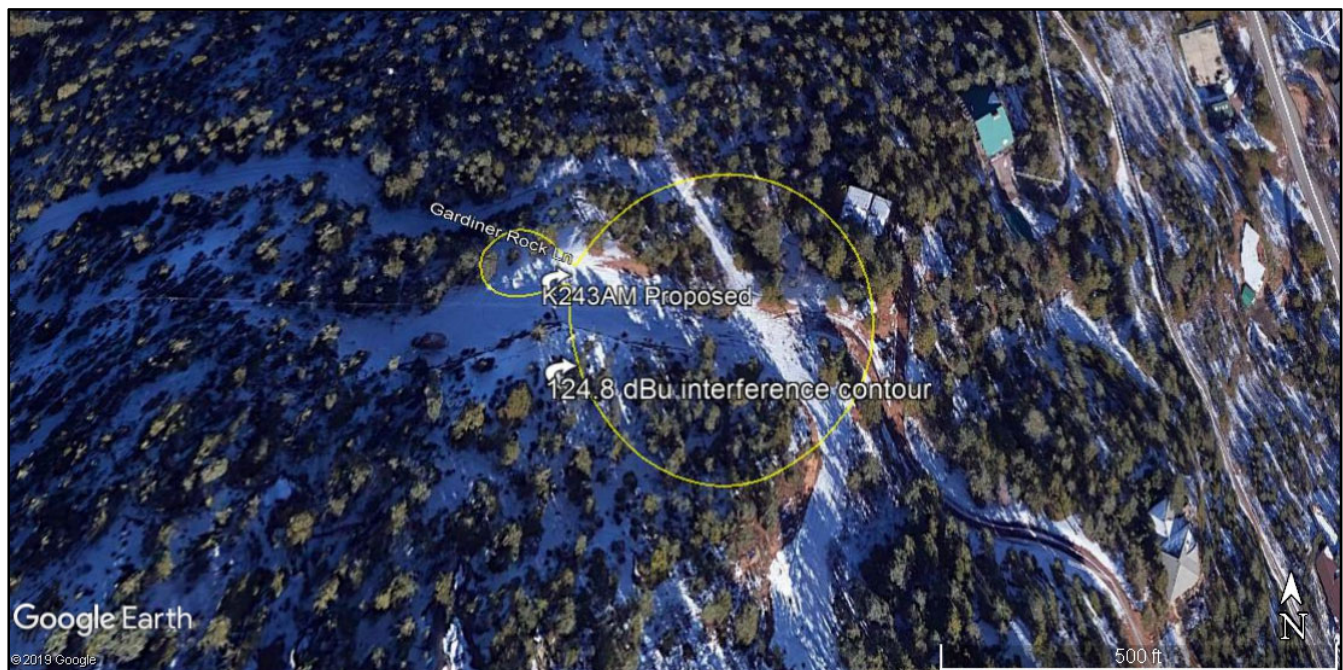
**KIBT (LIC), CH 241C2, Fountain, CO**

KIBT signal strength at the K243AM site	84.8 dBu
K243AM interference contour	124.8 dBu
Distance to K243AM interference contour	63.7 meters

**KCCY-FM (LIC), CH 245C, Pueblo, CO**

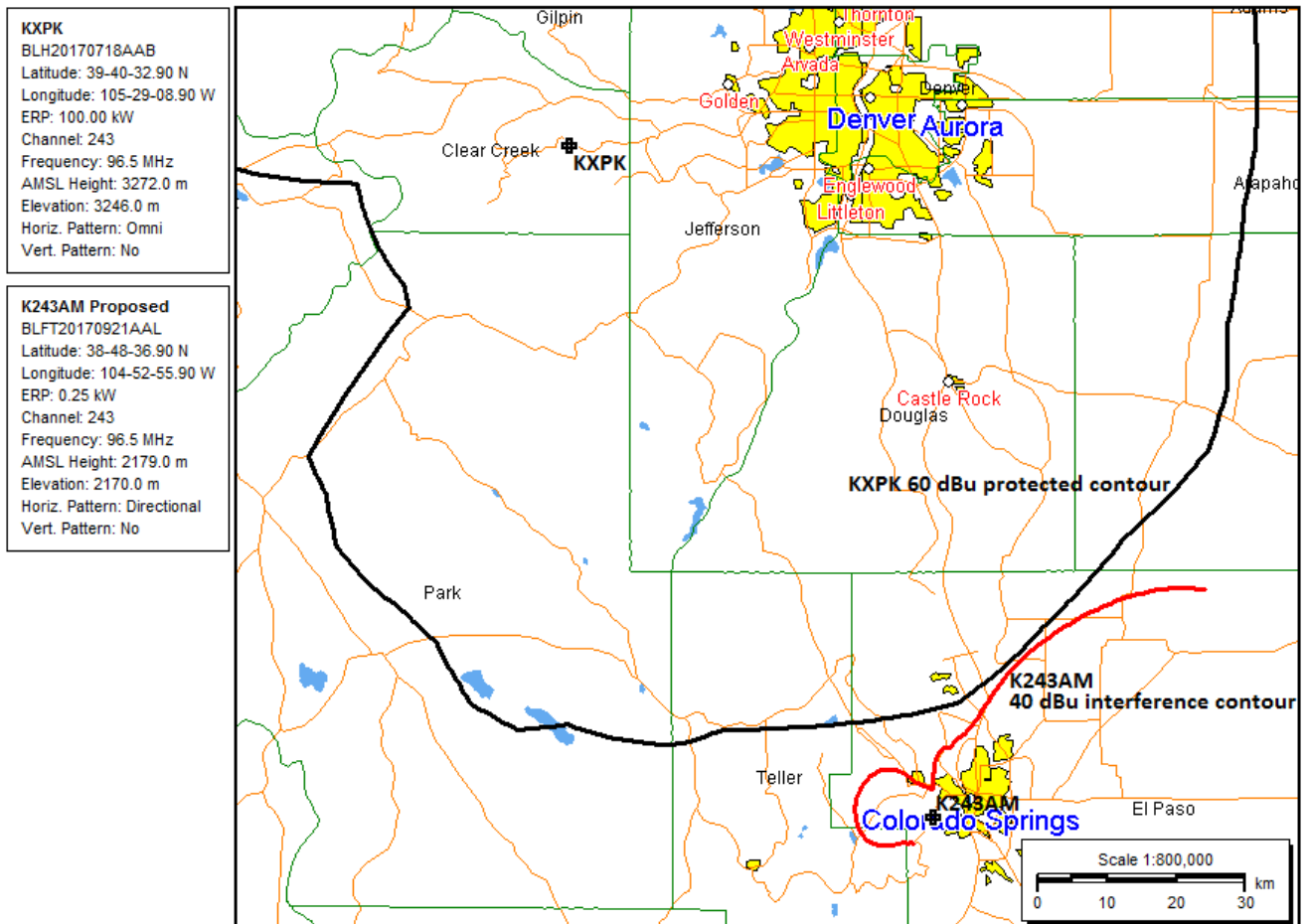
KCCY-FM signal strength at the K243AM site	106.9 dBu
K243AM interference contour	146.9 dBu
Distance to K243AM interference contour	5.0 meters

K243AM's 124.8 dBu interference contour to KIBT will extend out a maximum of 63.7 meters and the 146.9 dBu interference contour to KCCY-FM will extend out a maximum of 5.0 meters. As is indicated on the below map, there are no occupied structures within K243AM's 124.8 dBu interference contour. Therefore based on the showing of no population within the area of predicted interference a waiver of Section 74.1204(d) is respectfully requested.



**Technical Exhibit**

**Allocation Study**



GLOBE terrain data

**Technical Exhibit**

**Environmental Impact & RFR Compliance Statement**

K243AM will be located at an established communications site that is in compliance with all environmental impact requirements.

K243AM will operate with 0.250 kW ERP (H&V, DA) at an antenna COR AGL height of 9 meters utilizing a Scala CA2-FM/CP 1 bay antenna. The highest level of RFR for this antenna at 2 meters above ground level is no more than 24.2% of the general public/uncontrolled MPE limit occurring at 12.2 meters from the base of the tower. However, there are other broadcast facilities at the site, and although it is anticipated that the combined facilities will not exceed the general public/uncontrolled MPE limits, to ensure compliance measurements will be taken during equipment tests of the completed facility.

RFR hazard warning signs are posted at the site and the site has restricted access to only authorized personnel. The applicant certifies that in cooperation with other users of the site all authorized personnel will be protected from RFR exposure in excess of FCC guidelines while accessing any controlled exposure area, including the tower, by either reducing power or ceasing operations.