

## Application Purpose

The purpose of this KRKA license modification is to change the licensed geographical coordinates. No other changes are proposed.

Since the coordinates of the KRKA license and proposed coordinates are separated at a distance of less than 3 seconds latitude and/or 3 seconds longitude, this corrective form can be filed. A Construction Permit Application is not necessary as stated in 47 C.F.R Section 73.1690(c)(11).

No physical changes have occurred. There is no change in site elevation, center of radiation, effective radiated power, or overall tower height. The previously licensed transmit antenna continues to be the ERI SHPX-8AC-HW.

Exhibit 1 shows the corrected coordinate spacing to all licensed and proposed facilities. Note the short spacing to three facilities. KRKA remains in compliance with 73.215 contour protection with KRXD, KFMU-FM, and KIMX as seen in Exhibit 1-A.

Exhibit 2 demonstrates continued coverage of the Community of License.

	Licensed	Minor Mod
Channel / Class	280C1	280C1
ASRN	N/A	N/A
Geographical Coordinates	40-37-02.9 105-19-41.9	40-37-01.2 105-19-41.5
Overall Tower AGL	43.0 m	43.0 m
Site Elevation AMSL	2524.0 m	2524.0 m
COR AGL	36.0 m	36.0 m
COR AMSL	2560.0 m	2560.0 m
HAAT	372.0 m	372 m
ERP	16.5 kW (V, DA)	16.5 kW (V, DA)
Antenna	ERI SHPX-8AC-HW	ERI SHPX-8AC-HW

FCC 30 second terrain data

## KRKA Site Spacing

REFERENCE					DISPLAY DATES		
40 37 01.20 N.			CLASS = C1		DATA	11-09-22	
105 19 41.50 W.			Current Spacings to 3rd Adj.		SEARCH	11-16-22	
----- Channel 280 - 103.9 MHz -----							
Call	Channel	Location		Azi	Dist	FCC	Margin
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KRKA	LIC-N 280C1	Severance	CO	349.9	0.05	244.5	-244.5
KRXP	LIC-N 280C2	Pueblo West	CO	169.0	211.59	223.5	-11.9
KFMU-FM	LIC-N 281C3	Oak Creek	CO	252.6	137.95	143.5	-5.6
KIMX	STA 283C2	Centennial	WY	352.5	74.83	78.5	-3.7
KIMX	LIC-N 283C2	Centennial	WY	352.5	74.83	78.5	-3.7
KRAN	LIC-Z 277C2	Warren Afb	WY	40.0	78.95	78.5	0.45
KSNO-FM	LIC 280A	Snowmass Village	CO	222.2	204.10	199.5	4.6
KRFX	LIC-D 278C0	Denver	CO	175.4	98.45	93.5	5.0
KKFN	LIC-N 282C1	Longmont	CO	172.3	103.22	81.5	21.7
KANT	LIC 281C2	Guernsey	WY	7.1	193.60	157.5	36.1
KQLT	LIC 279C	Casper	WY	341.3	249.91	208.5	41.4
KQLT	STA 279C	Casper	WY	341.3	249.91	208.5	41.4
KAKR	LIC 279A	Akron	CO	106.1	181.12	132.5	48.6
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All separation margins include rounding							

## Channel Study

REFERENCE		CH# 280C1- 103.9 MHz, Pwr= 16.5 kW, HAAT= 372.0 M, COR= 2560 M								DISPLAY DATES	
40 37 01.2 N.		Average Protected F(50-50)= 59.4 km								DATA 11-09-22	
105 19 41.5 W.		73.215 Omni-directional								SEARCH 11-16-22	
CH CITY	CALL	TYPE STATE	ANT	AZI. <--	DIST FILE #	LAT. LNG.	Pwr (kW) HAAT (M)	INT (km) COR (M)	PRO (km) LICENSEE	*IN* (Overlap in km)	*OUT*
280C1 Severance	KRKA!	LIC CO	NCN	349.9	0.05	40 37 02.90	16.500		---Reference---		
				169.9	BMLD20130916AAT	105 19 41.90	372	2560	Educational Media Foundati		
277C2 Warren Afb	KRAN«	LIC WY	ZCN	40.0	78.95	41 09 33.90	37.000	3.4	32.8	78.5R	0.45M
				220.4	BLH20090624AEP	104 43 20.90	78	1912	Freisland Broadcasting Cor		
280A Snowmass Village	KSNO-FM«	LIC CO	CN	222.2	204.10	39 14 50.90	6.000	91.8	32.1	199.5R	4.6M
				41.2	BMLH19960220KC	106 55 15.10	99	2798	Wild Goose LLC		
278C0 Denver	KRFX«	LIC CO	DCN	175.4	98.45	39 43 59.00	100.000	11.3	77.9	93.5R	5.0M
				355.5	BLH20070927AIC	105 14 12.00	346	2256	Ihm Licenses, LLC		
280C2 Pueblo West	KRXP	LIC CO	NCN	169.0	211.59	38 44 43.90	1.750	136.1	58.8	12.9	6.3
				349.3	BLH20070326AGF	104 51 43.90	657	2912	Colorado Springs Radio Bro		
283C2 Centennial	KIMX	LIC WY	NCN	352.5	74.83	41 17 05.90	13.500	3.8	37.8	6.9	30.4
				172.4	BLH20160824ABQ	105 26 42.90	284	2702	White Park Broadcasting, I		
283C2 Centennial	KIMX^	STA WY	CN	352.5	74.83	41 17 05.90	50.000	2.7	26.5	8.0	41.6
				172.4	0000201629	105 26 42.90	150	2568	White Park Broadcasting, I		
282C1 Longmont	KKFN«	LIC CO	NCN	172.3	103.22	39 41 44.90	100.000	10.7	75.1	81.5R	21.7M
				352.4	BLH19991214ABH	105 09 55.90	206	2081	Bonneville International C		
281C2 Guernsey	KANT«	LIC WY	CN	7.1	193.60	42 20 46.50	36.000	78.9	53.4	157.5R	36.1M
				187.3	BLH20080304AAR	105 02 05.80	172	1675	Peak Radio LLC		
279C Casper	KQLT«	STA WY	CN	341.3	249.91	42 44 36.90	100.000	95.9	64.8	208.5R	41.4M
				160.7	0000196697	106 18 33.10	567	2525	Mt. Rushmore Broadcasting,		
279C Casper	KQLT«	LIC WY	CN	341.3	249.91	42 44 36.90	100.000	95.9	64.8	208.5R	41.4M
				160.7	BLH19980114KB	106 18 33.10	567	2525	Mt. Rushmore Broadcasting,		
279A Akron	KAQR«	LIC CO	CN	106.1	181.12	40 08 55.90	1.000	32.8	22.1	132.5R	48.6M
				287.4	BLH20190424AAP	103 17 05.80	104	1501	Northeast Colorado Broadca		

Terrain database is FCC NGDC 30 Sec, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM  
 Contour distances are on direct line to and from reference station. Reference Zone= - Zone 2, Co to 3rd adjacent.  
 All separation margins (if shown) include rounding. Call signs with exclamation marks need not be protected.  
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, \_= Omni), Polarization (C,H,V,E), Beamtilt (Y,N,X)  
 « = Station meets FCC minimum distance spacing for its class.  
 ^ = Power and antenna height 'Max classed' as per Sec 73.215 protection requirements

Overlap Population Report  
KRKA (280) / Severance, CO

Overlap Area Type: Intersection  
Areas Included:  
KRKA (280): FCC F(50-50) 70.00 dBu (FCC HAAT)  
PLST: Severance, CO

Population Database: 2020 US Census (PL)

Total Population: 5,884  
Overlap Area: 16.43 sq. km (Area determined using 0.019 km cells)

Area Description	Total Population	Total Area [sq. km]	Percent Population	Percent Area
KRKA (280): FCC 70dbu	398,626	4,916	1.5 %	0.3 %
PLST: Severance, CO	5,884	16.43	100.0 %	100.0 %

Exhibit 2 Community of License Coverage - Severance, CO  
Note: 100% of the Area and Population Are Contained Within The 70dbu Service Contour

**KRKA**

BMLED20130916AAT  
Latitude: 40-37-01.20 N  
Longitude: 105-19-41.50 W  
ERP: 16.50 kW  
Channel: 280  
Frequency: 103.9 MHz  
AMSL Height: 2560.0 m  
Elevation: 2524.0 m  
Horiz. Pattern: Omni  
Vert. Pattern: No  
Prop Model: None

