

TELECOMMUNICATIONS ENGINEERING
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6 January 2023
Prepared for the University of Montana
KUMS, White Sulphur Springs, Montana

ALLOCATION CONSIDERATIONS

On 6 January 2023, a computerized allocation analysis was performed on the facilities proposed herein using data from the Commission's CDBS and LMS and those allocations and assignments notified by the Government of Canada, current as of 5 January 2023. The software to perform this analysis was provided by V-Soft Communications. A copy of this study is attached.

This analysis revealed no domestic allocations, applications or assignments requiring further study and the proposed facilities are fully spaced from all Canadian allocations, applications and authorizations notified by the Government of Canada.

The applicant believes that the facilities proposed herein meet all of the Commission's rules of allocation and those outlined in the Agreement Between the United States and Canada.

Gray Frierson Haertig & Assoc.
Portland, Oregon

The University of Montana
Missoula, Montana

REFERENCE CH# 209A - 89.7 MHz, Pwr= .15 kw, HAAT= 72.3 M, COR= 1851 M
46 27 44.00 N. Average Protected F(50-50)= 9.75 km
110 51 25.00 W. Omni-directional

DISPLAY DATES
DATA 01-05-23
SEARCH 01-06-23

CH CITY	CALL	TYPE STATE	ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kw) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
209A	KUMS	CP	_CN	0.0	0.00	46 27 44.00	0.250	58.4	18.7	-75.8*	-74.2*
white	sulphur sprin	MT		240.4	0000165513	110 51 25.00	78	1849	The University Of Montana		
210C3	KYPM	LIC	_CN	165.9	99.08	45 35 50.70	1.900	73.5	48.6	10.2	27.1
Livingston		MT		346.1	BLED20130513ADH	110 32 47.70	265	2020	Montana State University		-
208C1	KYPF	LIC	_CN	51.2	128.11	47 10 38.90	4.000	88.5	59.5	27.9	59.7
Stanford		MT		232.1	BLED20091118AES	109 32 11.60	576	1779	Montana State University		-
207C2	KLBZ	LIC	_VN	215.3	68.72	45 57 24.70	7.000	1.6	16.4	50.2	32.2
Bozeman		MT		35.0	BLED20180215AAI	111 22 16.90	209	1643	Educational Media Foundati		
209C2	KQLR	LIC	_VN	248.0	132.12	46 00 21.70	1.450	84.0	28.6	32.5	43.0
whitehall		MT		66.9	BMLE20151029AHN	112 26 36.00	547	2523	Educational Media Foundati		
06 2C	KTVM-TV«	LI	_HN	248.1	131.99	46 00 27.00	19.200	10.4	81.3	91.7R	40.3M
Butte		MT		66.9	BLCDT-20100629AVB	112 26 32.99	591	2566			
211C3	KHLV	LIC	_EN	291.3	95.36	46 46 06.70	3.500	3.3	40.3	71.2	54.1
Helena		MT		110.5	0000168096	112 01 23.90	202	1509	Educational Media Foundati		
206C3	KGLZ	LIC	DVN	302.2	76.22	46 49 29.70	0.140	0.3	13.3	54.9	60.6
East Helena		MT		121.6	BLED20111013AAW	111 42 15.90	668	2383	Board Of Regents - Montana		
210C3	KGPR	LIC	_CN	345.0	124.12	47 32 22.80	9.500	48.5	31.1	56.2	65.2
Great Falls		MT		164.7	BLED20000210ABH	111 17 08.90	90	1152	Great Falls Public Radio A		
212C3	KZBN	LIC	_VN	185.1	93.14	45 37 39.70	12.500	1.9	19.2	76.2	61.6
Bozeman		MT		5.0	BLED20130510ADK	110 57 49.70	1627	1627	Bozeman Christian Educatio		
262C1	KLSK«	LIC	_CN	346.3	92.03	47 15 58.30	100.000	144.4	63.5	21.5R	70.5M
Great Falls		MT		166.1	0000141175	111 08 41.80	151	1491	Educational Media Foundati		

Terrain database is NGDC 30 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
In & Out distances between contours are shown at closest points. Reference zone= - Zone 2, Co to 3rd adjacent.
All separation margins (if shown) include rounding.
Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E), Beamtilt(Y,N,X)
"«"affixed to 'IN' or 'OUT' values = site inside restricted contour.
« = Station meets FCC minimum distance spacing for its class.
Reference station has protected zone issue: Canada

Prop

Latitude: 46-27-44 N
Longitude: 110-51-25 W
ERP: 0.15 kW
Channel: 209
Frequency: 89.7 MHz
AMSL Height: 1851.0 m
Horiz. Pattern: Omni
Vert. Pattern: No

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- 60 dBu Coverage Contour
- White Sulphur Springs Corporate Limits

White Sulphur Springs

+
Prop

46-30-00 N

46-20-00 N

Proposed 60m dBu Contour

Scale 1:250,000

