

**Hi-Line Radio Fellowship, Inc.
Havre, Montana**

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Monday, March 09, 2009

BIA/Dataworld FM Interference Study

Title: BoulderTranslator Ch. 298

Channel: 298 FT (107.5 MHz) Latitude: N 46° 19' 51.7"
ERP: 0.05 kW HAAT: 46.0 m Longitude: W 112° 06' 16.4"
Database: FCC 3/3/2009 12:00:00 AM Safety Zone: 26.0 km

Call	Auth	Licensee name	Chan	HAAT(m)	ERP	Latitude	Br-to	Dist	Req
City of License		St	FCC File Number	Freq	HAMSL(m)	(kW)	Longitude	-from	(km)
K244EH	LIC	LAST CHANCE PUBLIC RADIO ASSOCIA	244 D		0.05 H	N 46° 49' 32.0"	28.8	62.85	1.810
HELENA		MT	BLFT-20080304ABO	96.7	2398.0	0.05 V W 111° 42' 26.0"	209.1	61.04	CLEAR

DA: SCA CA5-FM/CP/RM @ 225.0°; Primary station: KEMC BILLINGS, MT; **Assumed HAAT: 30 m**

Proposed Channel 298 FT 91 dBuV/m F(50,10) Interfering contour = 1.0 km

K244EH Channel 244 D 91 dBuV/m F(50,50) Service contour = 0.8 km

KQRV	LIC	ROBERT CUMMINGS TOOLE	245 C1	300.0	20 H	N 46° 06' 03.0"	248.8	70.08	12.39
DEER LODGE		MT	BLH-20000407ACG	96.9	2215.0	20 V W 112° 57' 00.0"	68.2	57.69	CLEAR

Proposed Channel 298 FT 91 dBuV/m F(50,10) Interfering contour = 1.0 km

KQRV Channel 245 C1 91 dBuV/m F(50,50) Service contour = 11.4 km

KSCY	USE	RADICK CONSTRUCTION, INC.	295 C2			N 45° 38' 20.0"	139.6	100.7	52.68
FOUR CORNERS		MT	106.9			W 111° 15' 56.0"	320.2	48.04	CLEAR

Assumed ERP: 50 kW; HAAT: 150 m

Proposed Channel 298 FT 100 dBuV/m F(50,10) Interfering contour = 0.5 km

KSCY Channel 295 C2 60 dBuV/m F(50,50) Service contour = 52.2 km

Proposed Channel 298 FT 60 dBuV/m F(50,50) Service contour = 5.9 km

KSCY Channel 295 C2 100 dBuV/m F(50,10) Interfering contour = 6.0 km

K296AN	LIC	BOULDER TV ASSOCIATION	296 D	-52.0	0.008 H	N 46° 16' 18.0"	213.6	7.931	6.091
BOULDER		MT	BLFT-141	107.1		W 112° 09' 42.0"	33.6	1.840	CLOSE

TRANSLATOR FOR KOPR, BUTTE, MT; DA: @ 0.0°; **Assumed HAAT: 30 m**

Proposed Channel 298 FT 100 dBuV/m F(50,10) Interfering contour = 0.5 km

K296AN Channel 296 D 60 dBuV/m F(50,50) Service contour = 3.1 km

Proposed Channel 298 FT 60 dBuV/m F(50,50) Service contour = 5.9 km

K296AN Channel 296 D 100 dBuV/m F(50,10) Interfering contour = 0.2 km

KMSM-FM	USE	THE ASSOCIATED STUDENTS OF MONTA	296 A			N 46° 00' 44.0"	224.7	49.78	28.80
BUTTE		MT	107.1			W 112° 33' 26.0"	44.4	20.98	CLEAR

Assumed ERP: 6 kW; HAAT: 100 m

Proposed Channel 298 FT 100 dBuV/m F(50,10) Interfering contour = 0.5 km

KMSM-FM Channel 296 A 60 dBuV/m F(50,50) Service contour = 28.3 km

Proposed Channel 298 FT 60 dBuV/m F(50,50) Service contour = 5.9 km

KMSM-FM Channel 296 A 100 dBuV/m F(50,10) Interfering contour = 2.8 km

KINX	LIC	FISHER RADIO REGIONAL GROUP, INC	297 C	621.0	94 H	N 47° 09' 34.0"	41.7	124.4	142.5
GREAT FALLS		MT	BLH-20011210ABG	107.3	2179.0	94 V W 111° 00' 39.0"	222.5	-18.1	SHORT

Proposed Channel 298 FT 54 dBuV/m F(50,10) Interfering contour = 8.3 km

KINX Channel 297 C 60 dBuV/m F(50,50) Service contour = 92.0 km

Proposed Channel 298 FT 60 dBuV/m F(50,50) Service contour = 5.9 km

KINX Channel 297 C 54 dBuV/m F(50,10) Interfering contour = 136.6 km

DKFTC	USE	ROBERT M. MASON	297 C			N 47° 30' 06.0"	25.3	144.3	142.5
GREAT FALLS		MT	107.3			W 111° 17' 06.0"	205.9	1.875	CLOSE

Window applicants for this allotment must specify at least minimum Class C facilities of 100 kW ERP / 300 meters HAAT or the equivalent; **Assumed ERP: 100 kW; HAAT: 600 m**

Proposed Channel 298 FT 54 dBuV/m F(50,10) Interfering contour = 8.3 km

DKFTC Channel 297 C 60 dBuV/m F(50,50) Service contour = 91.8 km

Proposed Channel 298 FT 60 dBuV/m F(50,50) Service contour = 5.9 km

DKFTC Channel 297 C 54 dBuV/m F(50,10) Interfering contour = 136.6 km

KENR-FM1	LIC	GAP BROADCASTING MISSOULA LICENS	298 D		0.63 H	N 46° 48' 08.0"	290.8	152.5	36.66
MISSOULA		MT	BLFTB-20011119ABC	107.5	1896.0	0.63 V W 113° 58' 21.0"	109.5	115.8	CLEAR

DA: SCA CA2-CP @ 315.0°; Primary station: KENR SUPERIOR, MT; **Assumed HAAT: 30 m**

Proposed Channel 298 FT 40 dBuV/m F(50,10) Interfering contour = 19.5 km

KENR-FM1 Channel 298 D 60 dBuV/m F(50,50) Service contour = 9.1 km

Proposed Channel 298 FT 60 dBuV/m F(50,50) Service contour = 5.9 km

KENR-FM1 Channel 298 D 40 dBuV/m F(50,10) Interfering contour = 30.8 km

K299AV	LIC	HI-LINE RADIO FELLOWSHIP, INC.	299 D			N 46° 16' 40.0"	97.7	43.11	11.87
TOWNSEND		MT	BLFT-20070820AAI	107.7	1522.0	0.015 V W 111° 33' 01.0"	278.1	31.24	CLEAR

Primary station: KVCM HELENA, MT; **Assumed HAAT: 30 m**

Proposed Channel 298 FT 54 dBuV/m F(50,10) Interfering contour = 8.3 km

K299AV Channel 299 D 60 dBuV/m F(50,50) Service contour = 3.6 km

Proposed Channel 298 FT 60 dBuV/m F(50,50) Service contour = 5.9 km

K299AV Channel 299 D 54 dBuV/m F(50,10) Interfering contour = 5.0 km

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City of License		St	FCC File Number	Freq	HAMSL(m)	(kW)	Longitude	-from	(km)
KMTZ	CP	SHEILA CALLAHAN AND FRIENDS, INC	299 C1	251.0	100 H	N 45° 38' 16.0"	139.7	100.7	106.1
THREE FORKS		MT	BMPH-20070119AAD	107.7	1799.0	100 V W 111° 16' 05.0"	320.3	-5.44	SHORT
Proposed Channel 298 FT 54 dBuV/m F(50,10) Interfering contour = 8.3 km					KMTZ Channel 299 C1 60 dBuV/m F(50,50) Service contour = 68.3 km				
Proposed Channel 298 FT 60 dBuV/m F(50,50) Service contour = 5.9 km					KMTZ Channel 299 C1 54 dBuV/m F(50,10) Interfering contour = 100.2 km				
KMTZ	USE	SHEILA CALLAHAN AND FRIENDS, INC	299 C1			N 45° 38' 16.0"	139.7	100.7	110.9
THREE FORKS		MT	107.7			W 111° 16' 05.0"	320.3	-10.2	SHORT

Assumed ERP: 100 kW; HAAT: 299 m

Proposed Channel 298 FT 54 dBuV/m F(50,10) Interfering contour = 8.3 km KMTZ Channel 299 C1 60 dBuV/m F(50,50) Service contour = 72.3 km
Proposed Channel 298 FT 60 dBuV/m F(50,50) Service contour = 5.9 km KMTZ Channel 299 C1 54 dBuV/m F(50,10) Interfering contour = 105.0 km

>> End of channel 298 FT study <<