AMENDED TECHNICAL STATEMENT

DEER LODGE, MONTANA - MX GROUP #132

HI-LINE RADIO FELLOWSHIP, INC.

AMENDMENT FILED NOVEMBER 29, 2021

This Technical Statement is prepared on behalf of Hi-Line Radio Fellowship, Inc. ("HLRF"), and amends HLRF's pending application (FCC File #0000167669) as follows:

- Change proposed ERP from .5 kW to .075 kW
- Change proposed Channel from Channel 215A to equivalent Class A Channel 207A

The proposed changes will resolve the MX situation.

The new operation was evaluated for compliance with all of the Commission technical rules and regulations for new Non-Commercial FM broadcast stations. Compliance with Section 73.509 and Section 73.515 in regards to interference to other stations was determined as follows:

Figure 1 – Channel Interference Study. Shows compliance with interference contours towards other stations.

Figure 2 – Predicted 60 dbμ primary coverage contour for compliance with community coverage.

The application was determined to meet or exceed all of the technical requirements for a new FM Non-Commercial Station set for by the Commission.

Figure 1 - Detailed Channel Interference Study
Deer Lodge, MT, Ch. 207A

REFERENCE CH# 207A - 89.3 MHz, Pwr= 0.075 kW, HAAT= 226.3 M, COR= 1814 M DISPLAY DATES
46 30 47.70 N. Average Protected F(50-50)= 14.37 km DATA 11-28-21
112 40 22.60 W. Omni-directional SEARCH 11-29-21

CH CALL CITY	TYPE ANT STATE	AZI <--	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
06 2C KTVM-TV Butte	LI _HN MT	162.4 342.6	58.95 BLCDT-20100629AVB	46 00 27.00 112 26 32.99	19.200 591	8.9 2566	95.1	104.0R	-45.0M
207C2 KLBZ Bozeman	LIC _VN MT	121.2 302.2	117.91 BLED20180215AAI	45 57 24.70 111 22 16.90	7.000 209	110.4 1643	42.4 Educational Media Foundati	0.7	56.4
206C KUFM Missoula	LIC _CN MT	300.4 119.4	116.14 BLED19920722KA	47 01 57.70 113 59 32.30	14.500 754	91.0 2322	61.6 The University Of Montana	6.0	22.9
206C3 KGLZ East Helena	LIC DVN MT	64.5 245.2	81.81 BLED20111013AAW	46 49 29.70 111 42 15.90	0.140 668	54.7 2383	35.3 Board Of Regents - Montana	13.4	25.0
205C1 KFRD Butte	LIC _VN MT	162.4 342.6	58.96 BMLED20130716AAS	46 00 26.70 112 26 33.00	2.800 527	3.3 2507	43.1 Family Stations, Inc.	39.7	13.6
209C2 KQLR Whitehall	LIC _VN MT	162.5 342.7	59.09 BMLED20151029AHN	46 00 21.70 112 26 36.00	1.450 547	2.5 2523	38.4 Educational Media Foundati	40.6	18.2
204A KXEH Victor	LIC _VN MT	255.9 74.7	124.36 BLED20121212AAZ	46 13 47.70 114 14 11.30	1.200 100	2.3 1696	44.4 Hi-Line Radio Fellowship,	103.1	78.9
261C1 KZOQ-FM«	LIC _CN	288.4	104.60	46 48 08.70	13.500	29.3	8.9	21.5R	83.1M
Missoula	MT	107.5	BLH19931116KZ	113 58 24.30	641	1915	Ccr-Missoula IV, LLC		
210A KBGA Missoula	LIC _CN MT	292.7 111.8	108.51 BLED19961122KD	46 52 55.70 113 59 11.30	1.000 -80	1.6 1177	10.9 The University Of Montana	86.7	94.9
209A 764912 White Sulphur Sprin	APP _CN MT	91.7 273.0	139.55 0000165513	46 27 43.70 110 51 24.70	0.250 78	1.1 1849	22.3 The University Of Montana	126.7	116.3
205A KGFC Great Falls	LIC _CN MT	42.9 223.9	145.68 BLED20090923AAB	47 27 52.20 111 21 20.70	6.000 74	2.7 1142	27.4 Hi-Line Radio Fellowship,	127.8	117.1
210C3 KGPR Great Falls	LIC _CN MT	42.1 223.2	155.37 BLED20000210ABH	47 32 22.80 111 17 08.90	9.500 90	2.7 1152	27.0 Great Falls Public Radio A	137.4	124.2
208A KPJH Polson	LIC _CN MT	319.8 138.7	185.17 BLED20110803ABP	47 46 24.70 114 16 08.40	0.130 570	43.5 1584	28.0 The University Of Montana	124.5	135.1
204A KUDI Choteau	LIC _CN MT	15.4 195.8	143.46 BLED20130614ACE	47 45 20.80 112 09 45.00	0.330 138	1.3 1353	10.9 Mota Ministries, Inc.	125.3	128.8
06 -- K06NV-D«	LI D_N	91.7	139.55	46 27 43.70	0.060	3.4	5.3	8.7R	130.8M
White Sulphur Sprin	MT	273.0	BLDTV-20120618ACA	110 51 24.69		1849			
06 -- K06QO-DT/«	LI DHN	91.8	172.96	46 26 35.81	0.018	3.4	1.0	4.4R	168.5M
Martinsdale	MT	273.4	0000001709	110 25 22.60		1795			

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. Call signs with strikeout 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.
Reference station has protected zone issue: Canada

Figure 2 - Predicted 60 dBu contour
Deer Lodge, MT, Ch. 207A

Coverage Study - NGDC 30 SEC
11-29-2021

768278 CH207 A , 0.075 kW, 226.3m HAAT, 1814.0m COR AMSL
Service Contour = 60 dBu.

