TECHNICAL STATEMENT

GLASGOW, MONTANA CHANNEL 2200A

HI-LINE RADIO FELLOWSHIP, INC.

SCHEDULE 340

NOVEMBER 2021

This Technical Statement is prepared on behalf of Hi-Line Radio Fellowship, Inc.

It is proposing a new FM station on channel 220A for Glasgow, Montana, with 5 Kilowatts Effective Radiated Power ("ERP"), circular polarized antenna system and a Center of Radiation height of 756 Meters Above Mean Sea Level. The antenna will also be located 83.9 Meters Above Average Terrain on an existing, unregistered tower.

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
Glasgow, Montana, Ch. 220A

REFERENCE CH# 220A - 91.9 MHz, Pwr= 5 kW, HAAT= 83.9 M, COR= 756 M
48 05 42.00 N. Average Protected F(50-50)= 25.0 km
106 37 08.00 W. Omni-directional
DISPLAY DATES
DATA 11-07-21
SEARCH 11-08-21

CH CITY	CALL STATE	TYPE ANT <--	AZI	DIST FILE #	LAT LNG	PWR(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
220B Swift Current	AL9871« SK	VAC ___	340.1 159.2	262.63	50 18 31.01 107 52 35.00	50.000 150	135.1 918	65.0	210.0R	52.6M
06 -- Wolf Point	K06AV-D« MT	LI D_N	88.1 268.7	68.79 BLDTV-20120614ACL	48 06 43.99 105 41 44.00	0.019	6.2 626	0.5	6.7R	62.1M
219A Scobey	KNPS MT	LIC _CN	49.5 230.5	122.44 BLED20120831ACD	48 48 05.10 105 20 57.00	0.100 107	18.0 889	12.1 Hi-Line Radio Fellowship,	75.4	65.5
06 -- Wolf Point	K06AV-D« MT	CP DHN	94.2 275.1	82.17 0000013203	48 02 07.00 105 31 11.99	0.019	6.1 709	4.9	11.0R	71.1M
06 C Willow Bunch	~~CKCK-TV-2~~« SK	LI DHN	26.9 207.7	157.25 CANADA343	49 21 03.08 105 38 08.04	3.270	6.2 1063	56.9	63.2R	94.1M
6 -- Willow Bunch	~~CKCK-TV-2~~« SK	CHA D_Y	26.9 207.7	157.25 DTVBL704076	49 21 03.08 105 38 08.04	3.270	6.2 1063	56.9	63.2R	94.1M
222A Mankota	AL9688« SK	VAC ___	347.4 167.0	152.99	49 26 12.11 107 04 52.25	6.000 100	2.5 917	38.0	51.0R	102.0M
222C Miles City	AL7099« MT	RSV-A ___	158.5 339.2	202.03 RM10424	46 24 04.01 105 39 07.97	100.000 600	14.4 1446	94.3 Us	94.5R	107.5M
222C0 Miles City	KYUS-FM« MT	LIC _CN	158.5 339.2	202.03 BLH20050506ABN	46 24 04.00 105 39 08.00	100.000 300	11.0 1137	76.6 Custer County Community Br	85.5R	116.5M
223C Havre	KPQX« MT	LIC _CN	273.6 91.3	228.36 BLH19850903KO	48 10 54.90 109 41 03.70	100.000 545	12.4 1905	84.6 New Media Broadcasters, In	94.5R	133.9M
219A Williston	KNDW ND	LIC _CN	87.2 269.5	232.19 BLED20171220ABC	48 09 19.10 103 30 04.70	1.300 154	40.6 793	27.0 Educational Media Foundati	164.4	163.4
218A Miles City	KNPM MT	LIC _CN	160.7 341.4	200.50 BLED20110623AAA	46 23 23.00 105 45 25.00	0.100 147	0.7 945	14.7 Hi-Line Radio Fellowship,	178.5	183.6
217B Cypress Hills	AL9439« SK	VAC ___	310.5 128.3	274.26	49 39 25.15 109 30 47.57	50.000 150	5.5 1260	65.0	69.0R	205.3M
223C1 Park City	KBXI« MT	LIC _CN	209.0 27.6	294.39 BLH20050804ADF	45 45 53.80 108 27 21.50	100.000 189	9.9 1239	71.3 Anthony Media, Inc.	74.5R	219.9M
217C1 Four Bears	KMHA ND	LIC _CN	96.3 279.2	293.81 BLED19840612DO	47 44 23.00 102 43 25.70	97.000 137	6.4 827	54.2 Fort Berthold Communicatio	260.4	236.8

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)
"*"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

Figure 2 - Predicted 60 dBu
Glasgow, Montana, Ch. 220A

Coverage Study - NGDC 30 SEC
11-08-2021

New CH220 A , 5.0 kW, 83.9m HAAT, 756.0m COR AMSL
Service Contour = 60 dBu.

