COMPREHENSIVE TECHNICAL EXHIBIT

Applicant proposes an increase in Effective Radiated Power only.

LACK OF CONTOUR OVERLAP

The following Channel Study (**Figure 1**) reveals the lack of any contour overlap with all relevant 1st, 2nd, 3rd adjacent, and I.F. frequencies.

Minor Modification to increase ERP
Minn-Iowa Christian Broadcasting, Inc.

REFERENCE — CH# 285D - 104.9 MHz, Pwr= 0.25 kW, HAAT= 62.7 M, COR= 366 M — DISPLAY DATES
44 25 52.2 N. — Average Protected F(50-50)= 7.1 km — DATA 05-07-20
94 31 55.3 W. — Omni-directional — SEARCH 05-07-20

CH CITY	CALL	TYPE	ST	ANT AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
285D New Ulm	K285FX!	LIC	MN	0.0 265.8	0.00 BLFT20150831ACJ	44 25 52.20 94 31 55.30	0.070	 366	---Reference--- Minn-Iowa Christian Broadc		
284C St. Cloud	KCLD-FM	LIC	MN	0.7 180.7	126.34 BLH19910913KB	45 34 02.80 94 30 44.00	100.000 300	105.9 658	73.1 Leighton Enterprises, Inc.	11.1	40.3
286C2 Tracy	KARL	LIC N	MN	264.2 83.2	107.14 BMLH20080813ADU	44 19 31.90 95 52 20.10	45.000 153	83.2 594	56.4 Subarctic Media, LLC	12.3	34.6
286D Glencoe	K286AU	LIC	MN	17.5 197.6	36.42 BLFT20070601BRU	44 44 36.90 94 23 36.90	0.115 89	14.2 407	10.1 Minnesota Public Radio	12.9	13.2
283C2 Blue Earth	KJLY	LIC	MN	146.4 326.7	69.36 BMLED20091008ABL	43 54 37.90 94 03 09.80	50.000 150	6.1 461	53.4 Minn-Iowa Christian Broadc	51.1	14.8
285C3 Spencer	KMRR	LIC	IA	201.3 20.8	136.32 BLH19970508KE	43 17 12.80 95 08 34.90	25.000 85	110.2 521	35.5 Saga Communications Of Iow	15.1	62.5
288C3 St. Peter	KRBI-FM	LIC N	MN	126.2 306.5	48.60 BLH20100614AQT	44 10 19.90 94 02 23.80	25.000 68	3.2 354	29.8 Alpha 3e Licensee LLC	34.9	16.0
285A Owatonna	KRFO-FM	LIC N	MN	109.8 290.7	114.74 BMLH20131203AFP	44 04 25.90 93 10 48.80	4.700 53	78.0 424	23.4 Townsquare Media Faribault	26.9	59.1
286D Mankato	K286AW	LIC	MN	127.1 307.5	53.06 BLFT20091217ACV	44 08 30.90 94 00 05.80	0.010 75	8.0 364	4.9 Minnesota Public Radio	34.5	32.8
231A Eagle Lake	KXLP	LIC N	MN	127.1 307.5	53.15 BLH20100326ACA	44 08 30.90 94 00 05.80	3.700 121	17.2 413	11.8 Subarctic Media, LLC	9.5R	43.7M
231A Eagle Lake	AL8441	RSV-A	MN	116.7 297.1	54.98 RM11325	44 12 28.89 93 55 00.83	6.000 100	17.2 395	11.8	9.5R	45.5M
231A Atwater	KKLN	LIC	MN	346.2 166.0	73.52 BLH20000824AAA	45 04 23.90 94 45 20.00	6.000 100	17.2 458	11.8 Headwaters Media, LLC	9.5R	64.0M
286A Lakeville	WGVX	LIC N	MN	74.2 255.1	113.45 BLH19960507KA	44 42 04.80 93 09 02.70	2.600 152	39.5 440	26.0 Radio License Holdings LLC	64.1	73.7
285D St. Paul	K285CQ	CP D	MN	53.7 234.5	112.21 BNPFT20171201AHU	45 01 23.90 93 22 53.80	0.250	33.3 341	9.9 Asian AMerican Broadcastin	69.2	69.9
232A Windom	KDOM-FM	LIC	MN	220.7 40.3	79.94 BLH19920130KB	43 53 05.80 95 10 56.90	5.700 102	17.2 537	11.8 Riverfront Broadcasting Of	9.5R	70.4M
288A Montevideo	KMGM	LIC	MN	299.0 118.2	98.87 BLH19821019AP	44 51 23.80 95 37 47.10	3.000 90	2.3 398	23.8 Iowa City Broadcasting Com	86.7	72.4
287D Minnetonka	K287CH	CP	MN	54.9 235.6	95.72 BNPFT20180509ADK	44 55 19.50 93 32 14.20	0.030	0.4 315	4.1 Relevant Radio, Inc.	85.6	90.5
285C3 Balsam Lake	WZEZ	LIC	WI	56.6 238.2	218.51 BLH19970224KB	45 29 26.80 92 11 32.70	22.000 106	115.2 479	41.8 Zoe Communications, Inc.	93.6	144.0

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= West Zone, 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.

Figure 1

ENVIRONMENTAL COMPLIANCE

There will be no new construction. The instant application is for an increase in Effective Radiated Power only. The antenna is side-mounted on an existing structure at an existing communications site.
FMModel returns a maximum of 0.911 uW/cm^2 at 32 meters from the tower using the 2 bay, 1 wavelength spaced Shively 6812 antenna. This is well below both the controlled and uncontrolled limits for rfr exposure.