

Channel Study

REFERENCE		CH# 279D - 103.7 MHz, Pwr= 0.17 kW, HAAT= 251.4 M, COR= 519 M								DISPLAY DATES	
44 58 34.0 N.		Average Protected F(50-50)= 18.8 km								DATA 02-04-10	
93 16 20.0 W.		Omni-directional								SEARCH 02-04-10	
CH CITY	CALL	TYPE ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*	
279D Cottage Grove	K279AZ	LIC C MN	138.2 318.3	26.9 BLFT20070108ACH	44 47 45.0 93 02 42.0	0.250	31.8 314	9.6 Educational Media Foundati	-24.5*	-43.4	
281C0 St. Louis Park	KZJK	LIC NCX MN	51.8 231.9	14.8 BLH20071001AGL	45 03 30.0 93 07 27.0	100.000 315	10.4 593	73.9 The Audio House, Inc.	-13.9*<	-60.0*<	
279C3 Waite Park	KLZZ	LIC CX MN	307.9 127.2	95.9 BMLH20021008ABS	45 30 02.0 94 14 31.0	9.000 126	100.5 455	37.1 Regent Licensee Of St. Clo	-23.3*<	0.3	
279C1 Hallie	WWIB	LIC C WI	84.4 265.9	167.1 BLH20000207ABP	45 06 07.0 91 09 33.0	100.000 207	164.4 534	66.0 Stewards Of Sound, Inc.	-16.1<	42.4	
278C1 Mankato	KYSM-FM	LIC CN MN	214.5 34.0	108.1 BLH19930802KD	44 10 20.0 94 02 23.0	100.000 165	93.0 453	62.6 Three Eagles Of Lincoln, I	-3.7<	17.7	
225D St. Paul	W225AP	LIC C MN	92.0 272.2	17.7 BLFT20070730ABV	44 58 13.0 93 02 51.0	0.170	32.9 283	103.8 Educational Media Foundati	9.5R	8.2M	
277D Big Lake	K277AS	LIC C MN	311.2 130.8	51.5 BLFT20070504AGN	45 16 47.0 93 46 02.0	0.010	0.2 423	6.8 Educational Media Foundati	32.6	43.9	
280D Owatonna	K280EC	LIC DC MN	173.9 354.0	99.2 BLFT19990804TF	44 05 19.0 93 08 25.0	0.205 97	7.1 469	5.0 Minnesota Public Radio	72.8	65.6	

Terrain database is NGDC 30 SEC, R= 73.215 qualifying spacings or FCC minimum spacings in KM, M= Margin in KM

Contour distances are on direct line to and from reference station. Reference Zone = 2, Co to 3rd adjacent.
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 protected contour.

"<" = Contour Overlap.

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KZJK, channel 281C0, St. Louis Park, MN. The predicted F(50-50) field strength of KZJK at the proposed translator site is 93.8 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 133.8 dBu. This interfering contour extends approximately 18.6 meters from the proposed transmit antenna, and the area of overlap does not reach the rooftop of the building. The proposed antenna will be mounted 23 meters above the rooftop of the 236 meter building (total building height with appurtenances is 270 meters).

To further confirm the absence of population within the interference aperture, EMF has examined the attached aerial photo (see Exhibit 13A-2) which indicates no structure which could be tall enough to enter the 18.6 meter interference aperture.

Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

K279AZ Prop.

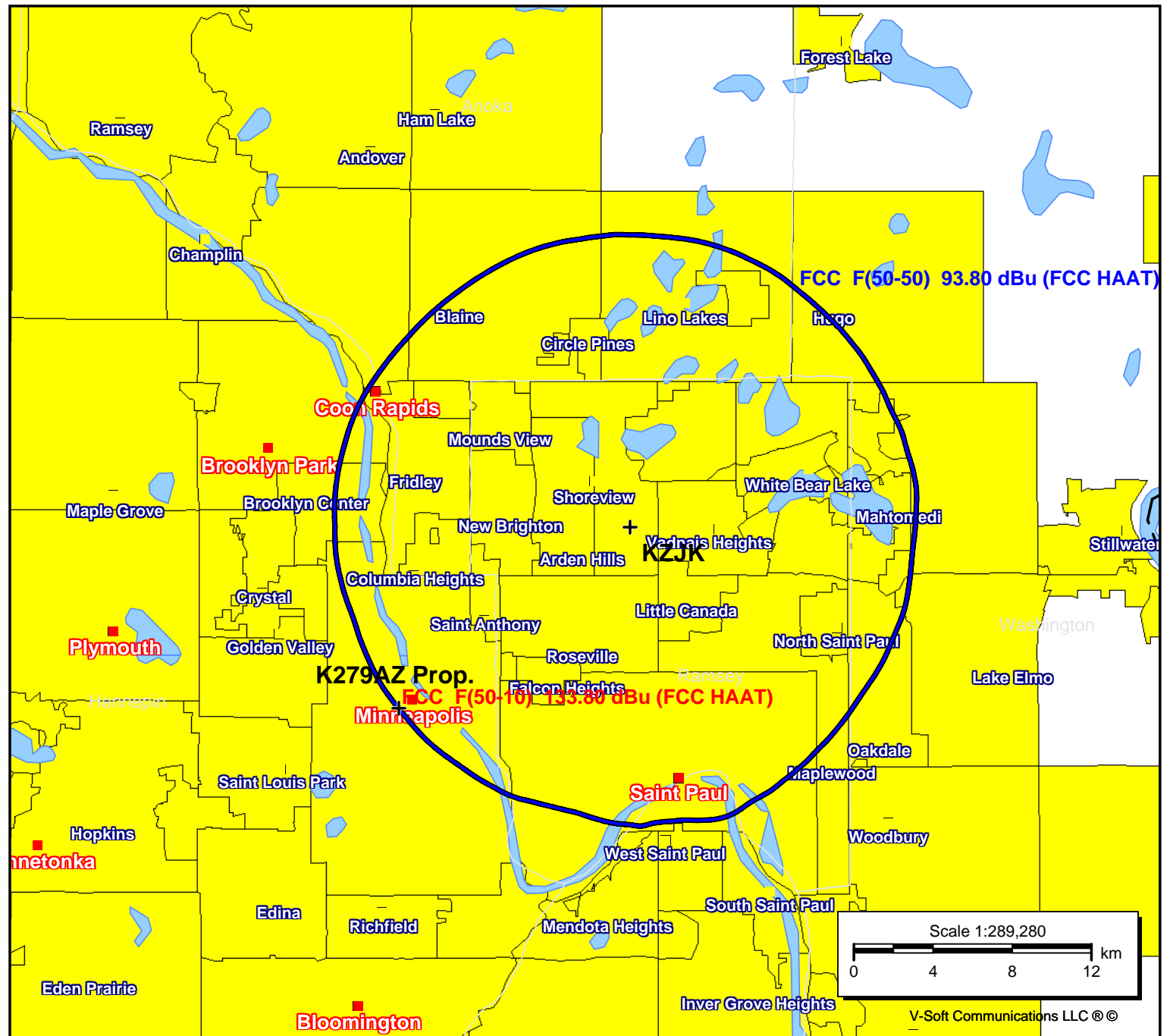
Latitude: 44-58-34 N
Longitude: 093-16-20 W
ERP: 0.17 kW
Channel: 279
Frequency: 103.7 MHz
AMSL Height: 519.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

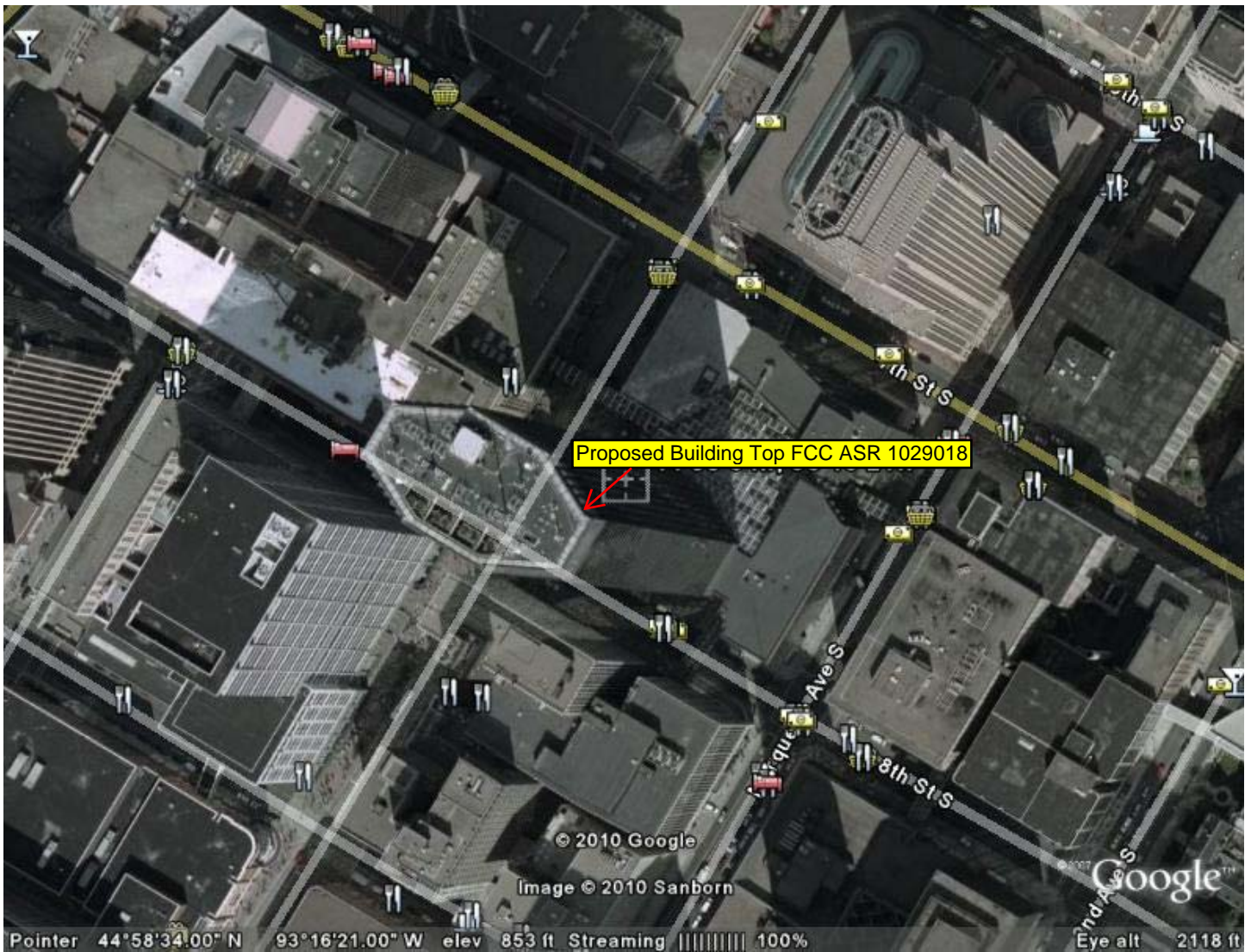
KZJK

BLH20071001AGL
Latitude: 45-03-30 N
Longitude: 093-07-27 W
ERP: 100.00 kW
Channel: 281
Frequency: 104.1 MHz
AMSL Height: 593.0 m
Elevation: 277.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

■ K279AZ Prop. (279)

■ KZJK (281)





Tower ID: 1029018

Coordinates (NAD27): 44-58-34.12 N, 093-16-20.19 W
Coordinates (NAD83): 44-58-34 N, 093-16-21 W

FMCommander Single Allocation Study - 02-05-2010 - NGDC 30 SEC
K279AZ's Overlaps (In= -23.27 km, Out= 0.26 km)

K279AZ CH 279 D

Lat= 44 58 34.0, Lng= 93 16 20.0

0.17 kW 251.4 M HAAT, 519 M COR

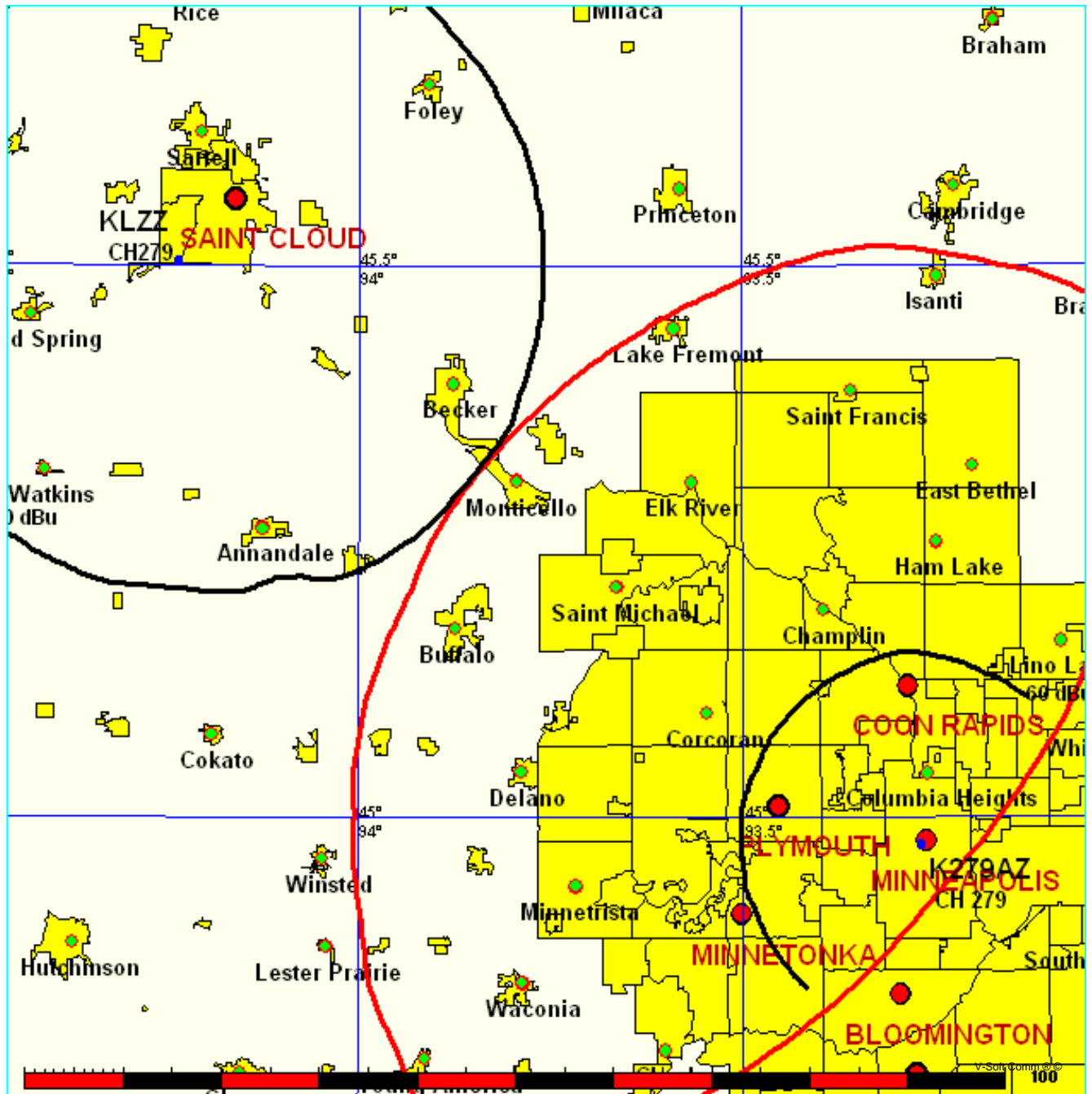
Prot.= 60 dBu, Intef.= 40 dBu

KLZZ CH 279 C3 BMLH20021008ABS

Lat= 45 30 02.0, Lng= 94 14 31.0

9.0 kW 126 M HAAT, 455 M COR

Prot.= 60 dBu, Intef.= 40 dBu



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