

Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 13

Bellefontaine, MO

Channel Study

REFERENCE		CH# 268D - 101.5 MHz, Pwr= 0.05 kW, HAAT= 196.8 M, COR= 351 M							DISPLAY DATES		
38 34 28.0 N.		Average Protected F(50-50)= 12.2 km							DATA 03-19-13		
90 19 31.0 W.		Omni-directional							SEARCH 03-19-13		
CH CITY	CALL	TYPE STATE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*
266C1 East St. Louis	WXOS	LIC	CX IL	211.7 31.7	12.04 BLH20080630ACL	38 28 56.0 90 23 53.0	100.000 300	10.2 466	72.7 St. Louis Fcc License	-10.3*	-61.2*
268D Bellefontaine	K268BF	LIC	C MO	42.3 222.4	16.09 BLFT20070404ACR	38 40 53.0 90 12 02.0	0.099 134	38.8 272	11.4 Educational Media Foundati	-35.2*	-36.6
268B Carbondale	WCIL-FM	LIC	NCX IL	139.0 319.6	128.00 BLH20031010ABX	37 42 04.0 89 22 18.0	28.500 199	130.5 338	64.2 Mrr License Llc	-15.4*	5.9
268C1 Columbia	KPLA	LIC	NCY MO	286.8 105.5	176.33 BLH19980306KB	39 00 52.0 92 16 32.0	42.000 324	150.6 561	63.6 Cumulus Licensing Llc	14.3	75.0
269A Elsberry	KXQX	LIC	NCX MO	323.9 143.6	72.83 BLH20080318ACV	39 06 09.0 90 49 23.0	3.100 142	45.9 321	30.4 Broadcast Enterprises, Inc	15.1	25.0
270D Saint Peters	649143	APP	C MO	312.0 131.8	38.02 BNPFT20030317GPU	38 48 09.0 90 39 05.0	0.250 19	1.1 170	7.1 Kaspar Broadcasting Co. Of	25.2	30.4
269A Greenville	WGEL	LIC	DCX IL	73.0 253.6	88.66 BLH20090717ADL	38 48 11.0 89 20 56.0	6.000 90	41.8 238	27.0 Bond Broadcasting Inc.	34.3	42.8
267D Potosi	650238	APP	C MO	198.7 18.5	75.11 BNPFT20030317JAN	37 56 00.0 90 36 00.0	0.250 63	16.3 315	11.3 Covenant Network	46.7	45.8
267D Potosi	633790	APP	C MO	209.0 28.7	80.10 BNPFT20030310BGF	37 56 35.0 90 46 07.0	0.170 89	16.7 370	11.5 Missouri River Christian B	51.4	50.9
271A Sullivan	KTUI-FM	LIC	CX MO	240.9 60.4	86.24 BLH20080321ABQ	38 11 42.0 91 11 12.0	6.000 84	2.9 339	29.9 Fidelity Broadcasting, Inc	71.4	55.8
271B1 Mount Vernon	WIBV	LIC	C IL	100.1 280.9	105.52 BLH20010216AAN	38 24 07.0 89 08 09.0	10.500 155	3.9 310	45.4 Benjamin Stratemeyer	88.6	59.4

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= West Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding
 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.

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WXOS, channel 266C1 East St. Louis, IL. According to 74.1204(a)(3), in order to protect second and third adjacent facilities, the difference in dBu between the two facilities must not exceed 40dBu.

The proposed ERP for K268BF.P:	0.05 watts
The proposed COR for K268BF.P:	214 meters
WXOS F(50/50) contour at proposed site:	97.1 dBu
The F(50/10) contour of proposed K268BF.P	137.1 dBu
The predicted distance to K268BF.P interference contour:	6.9 meters

The signal is predicted to not reach the ground. As can be seen in the attached aerial photo (see Exhibit 13–A2), there are no regularly occupied structures at the base of the tower and there are no structures which could be tall enough to enter the 6.9 meter aperture.

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

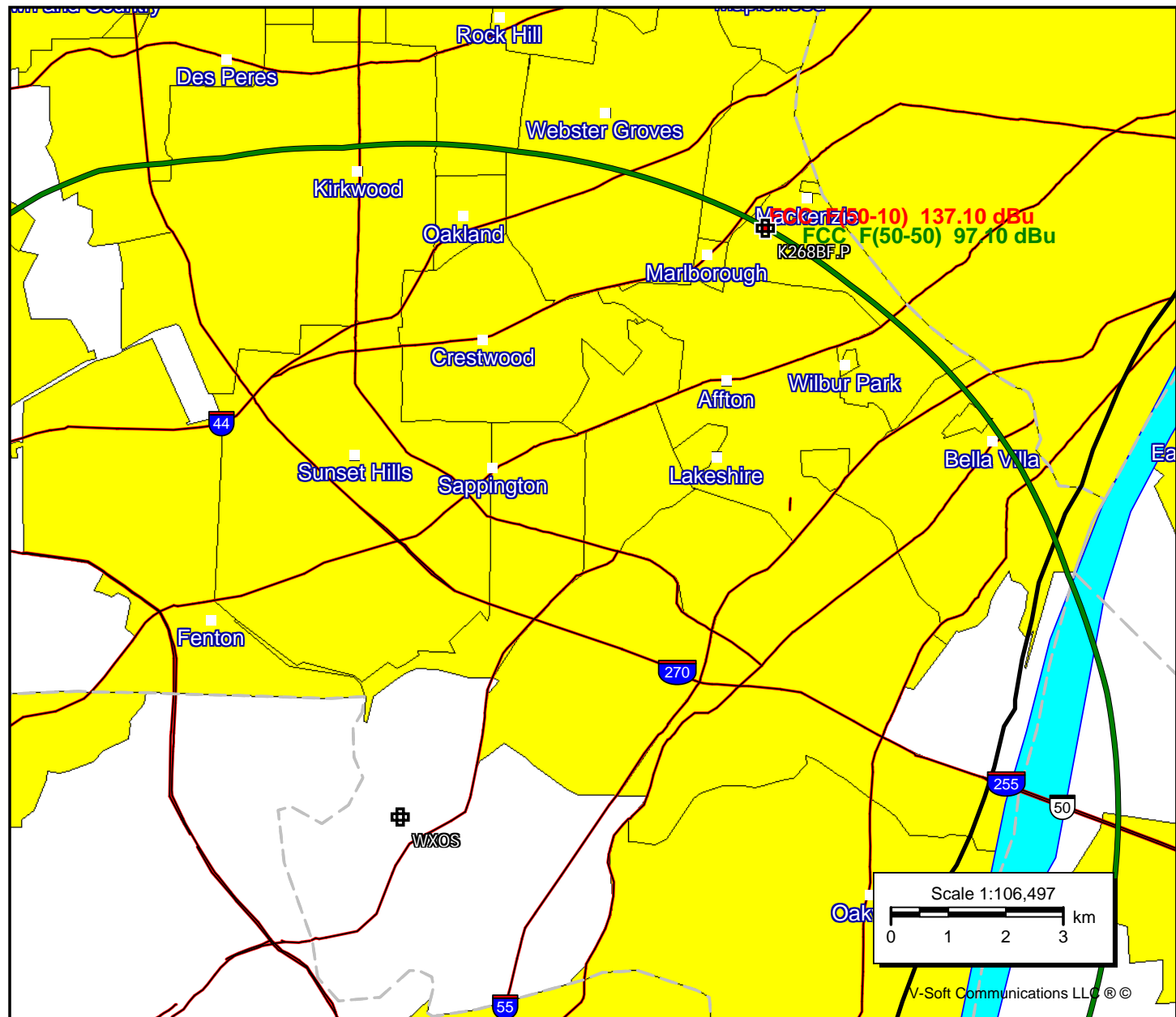
Exhibit 13-A1

K268BF.P

Latitude: 38-34-28 N
Longitude: 090-19-31 W
ERP: 0.05 kW
Channel: 268
Frequency: 101.5 MHz
AMSL Height: 351.0 m
Horiz. Pattern: Omni
Prop Model: None

WXOS

BLH20080630ACL
Latitude: 38-28-56 N
Longitude: 090-23-53 W
ERP: 100.00 kW
Channel: 266
Frequency: 101.1 MHz
AMSL Height: 466.0 m
Horiz. Pattern: Omni





Google earth



Exhibit 13-B

FMCommander Single Allocation Study - 03-20-2013 - NGDC 30 SEC
K268BF.P's Overlaps (In= -15.44 km, Out= 5.91 km)

K268BF.P CH 268 D
Lat= 38 34 28.0, Lng= 90 19 31.0
0.05 kW 196.8 M HAAT, 351 M COR
Prot.= 60 dBu, Intef.= 34 dBu

WCIL-FM CH 268 B 73.215 N BLH20031010ABX
Lat= 37 42 04.0, Lng= 89 22 18.0
28.5 kW 199 M HAAT, 338 M COR
Prot.= 54 dBu, Intef.= 40 dBu

