

Educational Media Foundation

5700 West Oaks Boulevard ♦ Rocklin ♦ California ♦ 95765

Exhibit 13

Tulsa, OK

Channel Study

REFERENCE CH# 240D - 95.9 MHz, Pwr= 0.062 kW, HAAT= 184.8 M, COR= 414 M DISPLAY DATES
36 07 52.0 N. Average Protected F(50-50)= 12.5 km DATA 03-15-13
96 04 13.0 W. Omni-directional SEARCH 03-15-13

CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap	*OUT* in km)
238C Tulsa	KWEN	LIC	CX OK	341.0 161.0	7.63 BLH20080826AAF	36 11 46.0 96 05 53.0	100.000 453	12.2 687	84.2 Cox Radio, Inc.	-15.9*	-77.1*
243C Tulsa	KRAV-FM	LIC	CX OK	341.0 161.0	7.63 BLH20080826AAG	36 11 46.0 96 05 53.0	100.000 453	12.2 687	84.2 Cox Radio, Inc.	-15.9*	-77.1*
240D Tulsa	631887	APP	C OK	0.0 0.0	0.00 BNPFT20030314BVF	36 07 52.0 96 04 13.0	0.092 140	38.8 369	11.4 Educational Media Foundati	-50.9*	-51.7*
240C2 Sallisaw	KKBD	LIC	CN OK	122.5 303.3	148.40 BLH19930326KB	35 24 26.0 94 41 25.0	30.000 190	132.5 365	52.6 Capstar Tx Llc	2.8	52.4
241C0 Oklahoma City	KXXY-FM	LIC	NC OK	245.5 64.7	141.17 BLH20000105AAO	35 35 52.0 97 29 22.0	100.000 372	118.2 718	79.6 Clear Channel Broadcasting	10.9	43.6
240C3 Winfield	KSOK-FM	LIC	NCX KS	323.9 143.4	130.37 BLH20041027AEE	37 04 32.0 96 56 13.0	15.200 128	106.7 481	38.5 Cowley County Broadcasting	12.9	55.5
241C2 Vinita	KITO-FM	LIC	CN OK	61.5 242.1	106.22 BLH19890508KD	36 34 56.0 95 01 35.0	50.000 150	77.0 376	51.2 Kxoj, Inc.	16.1	35.3

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 KWEN, channel 238C, Tulsa, OK. The predicted F(50,50) field strength of KWEN at the proposed translator site is 106.4 dBu, (see Exhibit 13-A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 146.6 dBu. This interfering contour extends approximately 2.6 meters from the proposed transmit antenna, and the area of overlap does not reach the ground because the antenna will be mounted at the 146 meter level on a 191 meter tower.

To confirm the absence of population within the interference aperture, Educational Media Foundation ("EMF") has examined the attached aerial photo (see Exhibit 13-C), which indicates a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 2.6 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.

Exhibit 13-A-1

20030314BVF

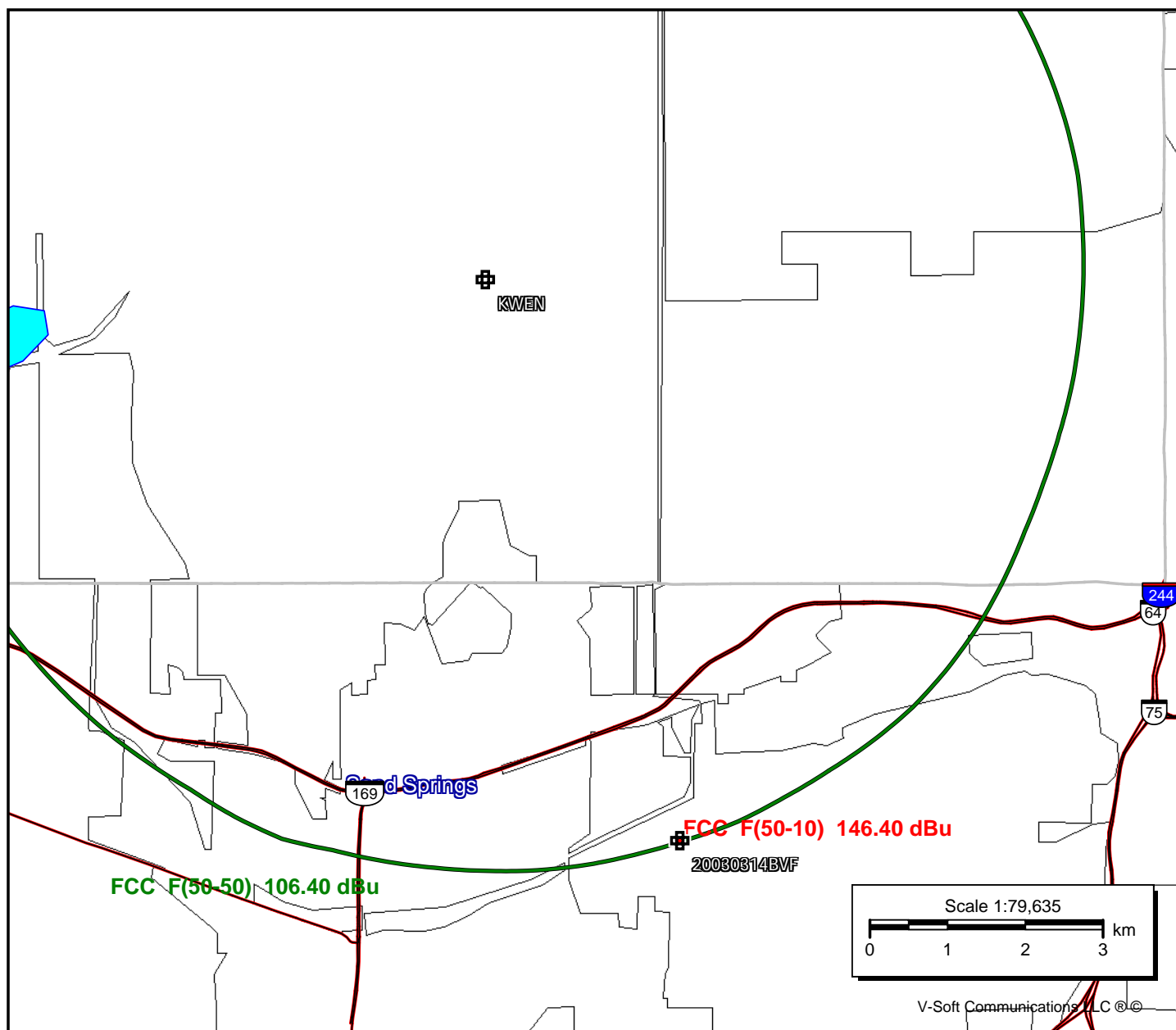
Latitude: 36-07-52 N
Longitude: 096-04-13 W
ERP: 0.062 kW
Channel: 240
Frequency: 95.9 MHz
AMSL Height: 414.0 m
Horiz. Pattern: Omni

KWEN

BLH20080826AAF
Latitude: 36-11-46 N
Longitude: 096-05-53 W
ERP: 100.00 kW
Channel: 238
Frequency: 95.5 MHz
AMSL Height: 687.0 m
Horiz. Pattern: Omni

20030314BVF (240)

KWEN (238)



Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station KRAV-FM, channel 243C, Tulsa, OK. The predicted F(50,50) field strength of KRAV-FM at the proposed translator site is 106.4 dBu, (see Exhibit 13-B-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 146.6 dBu. This interfering contour extends approximately 2.6 meters from the proposed transmit antenna, and the area of overlap does not reach the ground because the antenna will be mounted at the 146 meter level on a 191 meter tower.

To confirm the absence of population within the interference aperture, Educational Media Foundation ("EMF") has examined the attached aerial photo (see Exhibit 13-C), which indicates a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 2.6 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.

Exhibit 13-B-1

20030314BVF

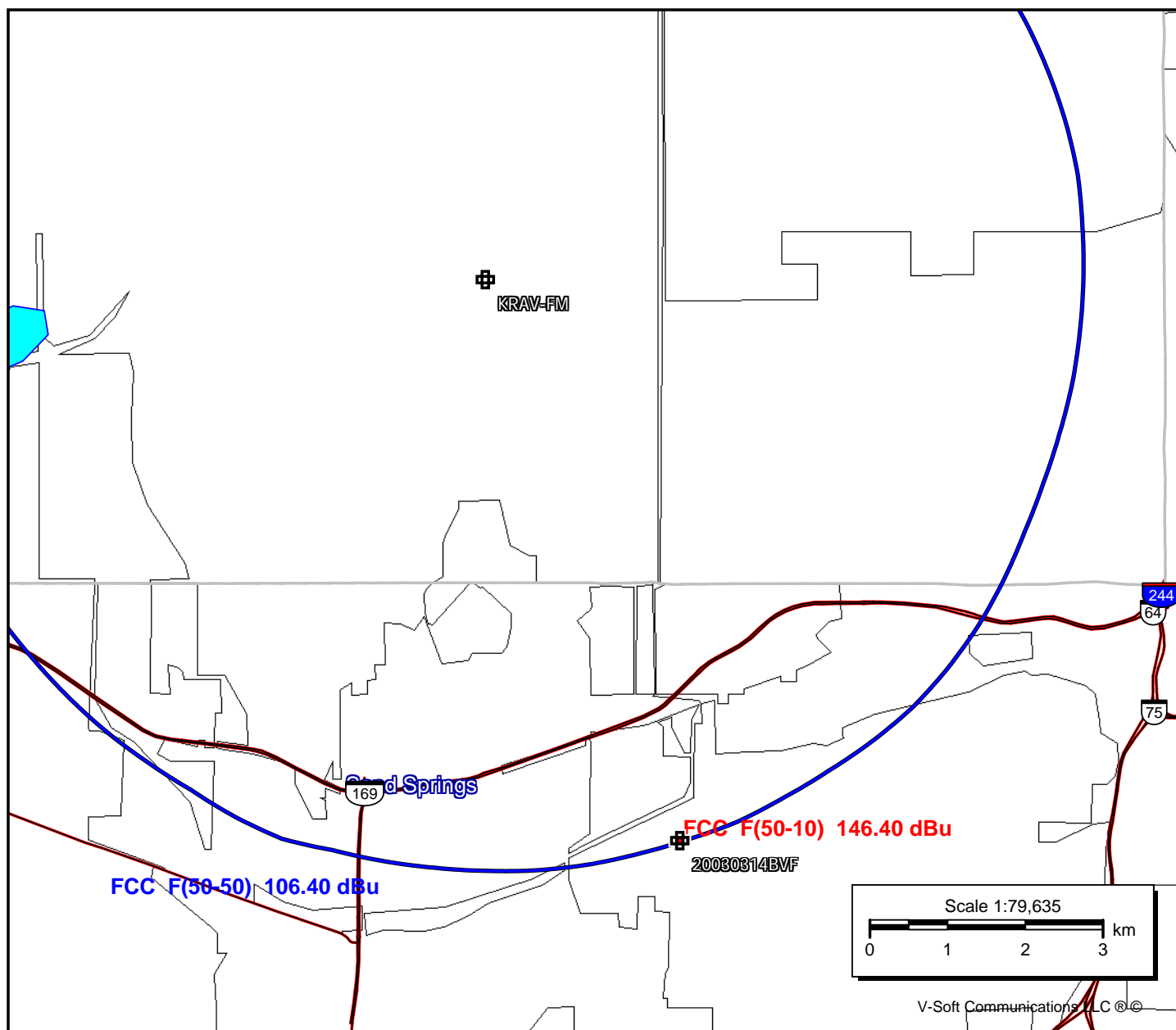
Latitude: 36-07-52 N
Longitude: 096-04-13 W
ERP: 0.062 kW
Channel: 240
Frequency: 95.9 MHz
AMSL Height: 414.0 m
Horiz. Pattern: Omni

KRAV-FM

BLH20080826AAG
Latitude: 36-11-46 N
Longitude: 096-05-53 W
ERP: 100.00 kW
Channel: 243
Frequency: 96.5 MHz
AMSL Height: 687.0 m
Horiz. Pattern: Omni

20030314BVF (240)

KRAV-FM (243)





36 07 52 N, 96 04 14 W (NAD 83)