

Channel Study

REFERENCE		CH# 255D - 98.9 MHz, Pwr= 0.062 kW, HAAT=181.7M, COR= 384 M								DISPLAY DATES	
36 06 25.0 N.		Average Protected F(50-50)= 12.4 km								DATA 04-11-07	
95 47 13.0 W.										SEARCH 04-11-07	
CH CITY	CALL	TYPE STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*	
255D Tulsa	K255BE	CP OK	C OK	0.0 0.0	0.00 BMPFT20040719ADL	36 06 25.0 95 47 13.0	0.092 130	38.8 342	11.4 Educational Media Foundati	-50.88*	-51.43*
253C Tulsa	KVOO-FM	LIC OK	CY OK	288.5 108.4	29.42 BLH19880420KC	36 11 26.0 96 05 50.0	100.000 384	11.4 611	78.6 Journal Broadcast Corporat	6.03	-49.73*
255C Oklahoma City	KYIS	APP OK	CX OK	248.8 67.9	165.03 BPH20070322ACJ	35 33 37.0 97 29 08.0	100.000 479	189.2 819	85.4 Citadel Broadcasting Compa	-35.85	40.67
258C1 Henryetta	KXBL	LIC OK	CN OK	225.1 44.9	42.95 BLH19860425KD	35 50 02.0 96 07 28.0	100.000 301	10.1 531	72.5 Journal Broadcast Corporat	20.71	-30.08*
255C Oklahoma City	KYIS	LIC OK	CN OK	248.8 67.8	165.02 BLH19840423CW	35 33 36.0 97 29 07.0	100.000 347	177.7 688	75.9 Citadel Broadcasting Compa	-24.40	50.19
256C Fort Smith	KMAG	LIC AR	CY AR	138.6 319.3	152.32 BLH19900430KB	35 04 26.0 94 40 48.0	100.000 607	136.9 780	92.1 Capstar Tx Limited Partner	3.28	42.33
255A Coffeyville	KKRK	LIC KS	C KS	2.9 183.0	111.21 BLH19990826AAA	37 06 28.0 95 43 22.0	3.200 136	82.9 381	28.1 Kggf-kusn, Inc.	16.30	43.23
257C3 Grove	KGVE	CP OK	CX OK	51.2 231.7	103.10 BPH20060817ADX	36 41 03.0 94 53 11.0	14.500 130	3.9 375	38.9 Caleb Corporation	86.58	63.67

Terrain database is NGDC 30 SEC

ERP and HAAT on direct-line with reference station.

***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 KVOO-FM, channel 253C, Tulsa, OK. The predicted F(50-50) field strength of KVOO-FM at the proposed translator site is 83.4 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 123.4 dBu. This interfering contour extends approximately 37.3 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 142 meter level on a 152 meter tower).

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12C), which indicates a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 37.3 meter interference aperture.

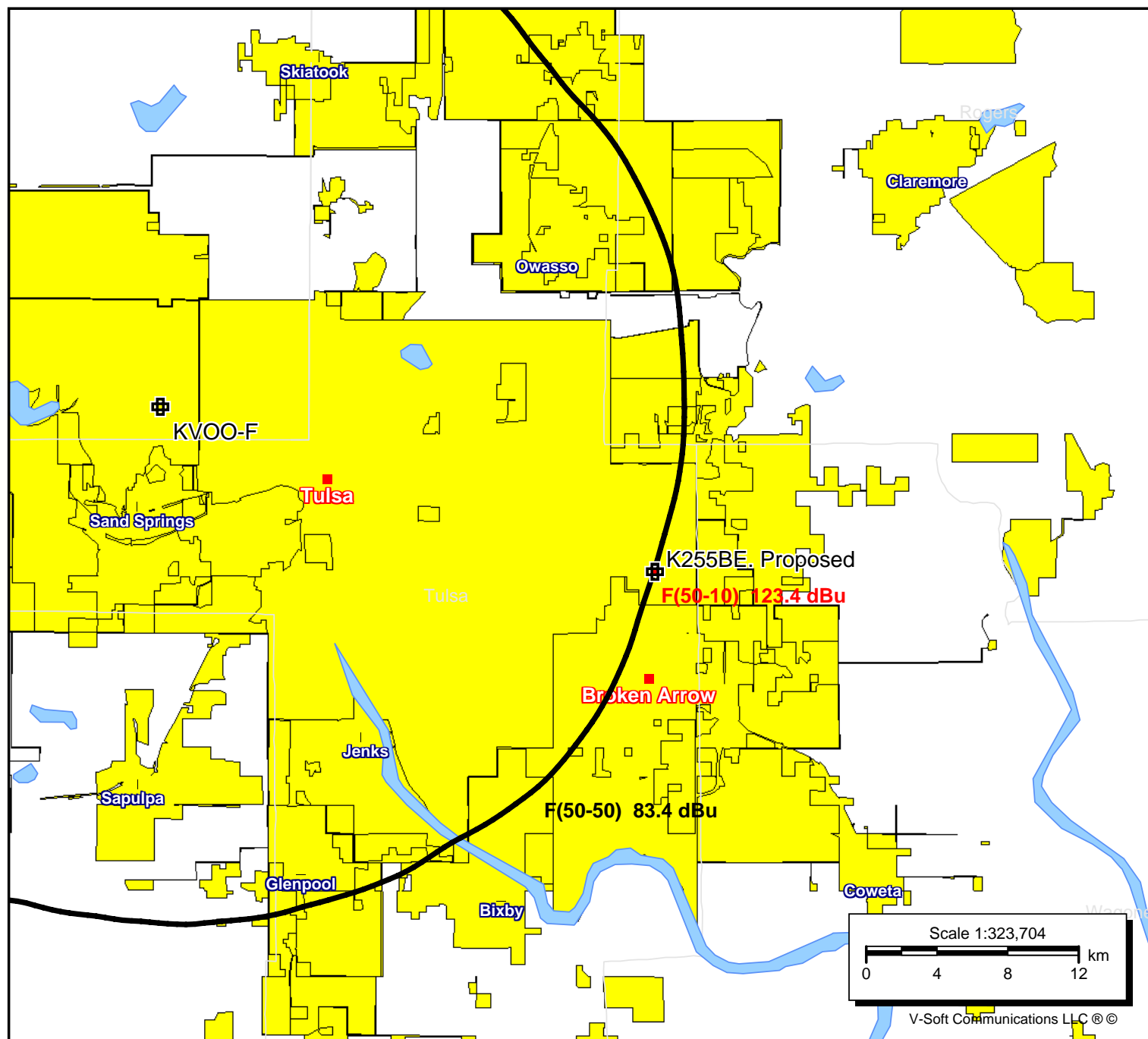
Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

K255BE. Proposed

Latitude: 36-06-25 N
Longitude: 095-47-13 W
ERP: 0.062 kW
Channel: 255
Frequency: 98.9 MHz
AMSL Height: 384.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

KVOO-F

BLH19880420KC
Latitude: 36-11-26 N
Longitude: 096-05-50 W
ERP: 100.00 kW
Channel: 253
Frequency: 98.5 MHz
AMSL Height: 611.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None



Compliance with C.F.R. 74.1204

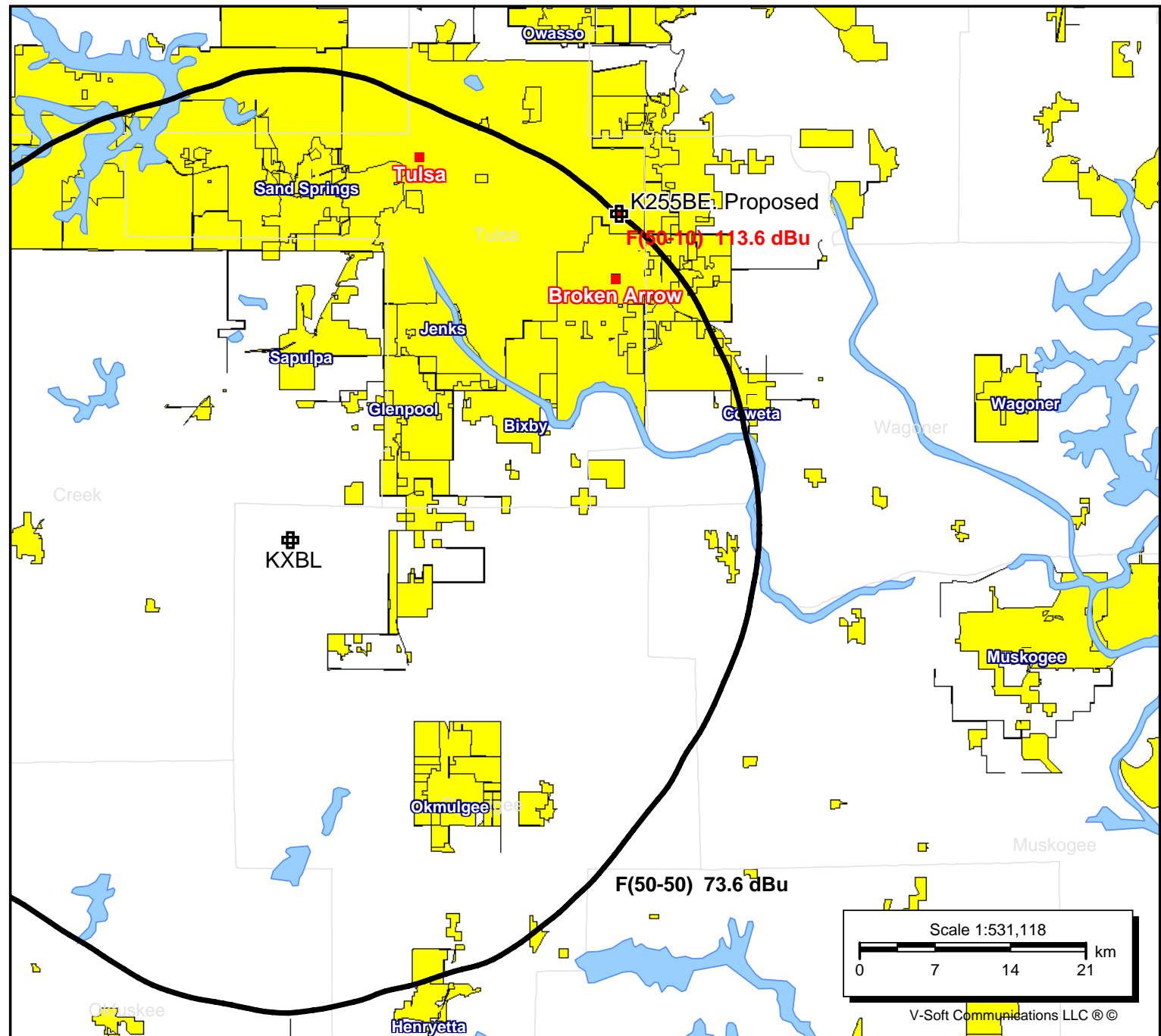
The proposed FM Translator is located within the protected 60 dBu contour of third adjacent channel station KXBL, channel 258C1, Henryetta, OK. The predicted F(50-50) field strength of KXBL at the proposed translator site is 73.6 dBu, (see Exhibit 12B-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 113.6 dBu. This interfering contour extends approximately 115.2 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 142 meter level on a 152 meter tower).

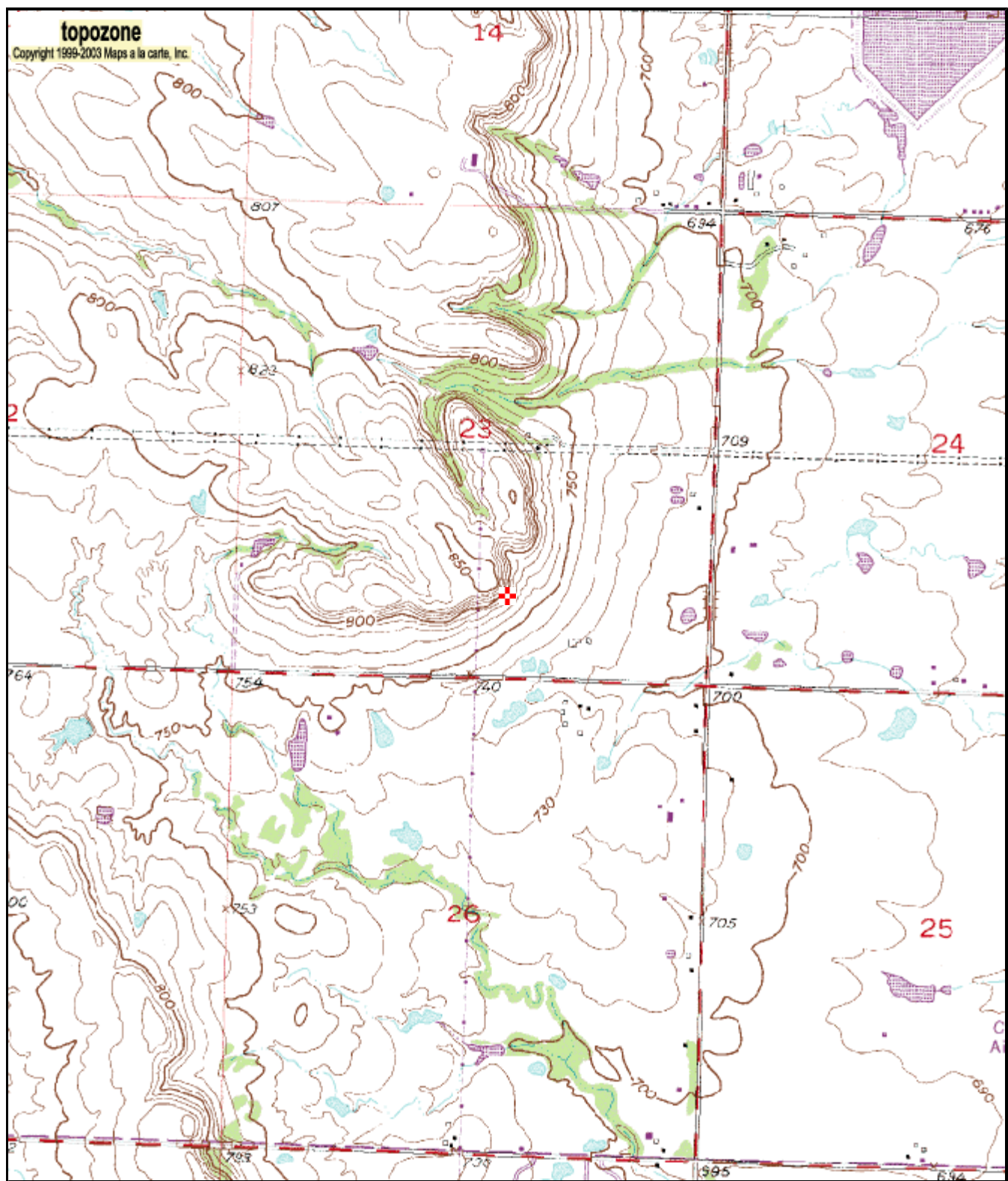
To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12C), which indicates a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 115.2 meter interference aperture.

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

Latitude: 36-06-25 N
Longitude: 095-47-13 W
ERP: 0.062 kW
Channel: 255
Frequency: 98.9 MHz
AMSL Height: 384.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

BLH19860425KD
Latitude: 35-50-02 N
Longitude: 096-07-28 W
ERP: 100.00 kW
Channel: 258
Frequency: 99.5 MHz
AMSL Height: 531.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None





0 0.3 0.6 0.9 1.2 1.5 km
0 0.2 0.4 0.6 0.8 1 mi

36° 06' 25"N, 95° 47' 13"W (NAD27)
USGS Broken Arrow (OK) Quadrangle
Projection is UTM Zone 15 NAD83 Datum

M=4.134
G=-1.644