

Channel Study

REFERENCE CH# 220D - 91.9 MHz, Pwr= 0.099 kW, HAAT= 63.4 M, COR= 153 M DISPLAY DATES
 33 25 57.0 N. Average Protected F(50-50)= 8.2 km DATA 10-05-09
 94 05 19.0 W. SEARCH 10-05-09

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*
223C3	KHTA	LIC NC	100.1	11.21	33 24 53.0	25.000	3.9	38.0	0.41	-27.52*
Wake Village		TX	280.2	BLED20001003ACY	93 58 12.0	100	187	Houston Christian Broadcas		
218C1	KTXK	LIC DCX	253.1	15.26	33 23 33.0	100.000	4.5	41.9	2.81	-27.37*
Texarkana		TX	73.0	BLED20040224AAA	94 14 44.0	93	183	Texarkana Community Colleg		
220A	KHCJ	LIC CX	209.0	75.70	32 50 07.0	3.200	82.4	27.8	-15.46*	18.80
Jefferson		TX	28.7	BLED20031110AAM	94 28 53.0	140	229	Houston Christian Broadcas		
221C2	KDQN-FM	LIC C	348.0	90.07	34 13 35.0	50.000	84.3	57.0	-2.42	21.43
De Queen		AR	167.9	BMLH19991006ABB	94 17 35.0	150	382	Jay W. Bunyard & Anne W. B		
220D	K220IW	LIC C	61.1	52.53	33 39 34.0	0.205	44.6	13.1	-0.02	13.10
Hope		AR	241.4	BLFT20060113ACQ	93 35 32.0		191	Educational Media Foundati		
219A	KEJA	CP CX	86.1	75.98	33 28 34.0	3.000	42.0	27.6	26.25	37.31
Cale		AR	266.6	BMPED20081204ADD	93 16 23.0	136	233	Network Of Glory, Inc.		
221A	KSYR	LIC CN	156.8	93.77	32 39 19.0	6.000	41.7	27.0	43.14	54.25
Benton		LA	337.0	BLH19970919KC	93 41 36.0	98	153	Access.1 Louisiana Holding		
217C3	NEW	CP DCX	40.3	84.86	34 00 47.0	10.000	1.7	19.3	74.89	64.88
Murfreesboro		AR	220.7	BNPED20071022BQA	93 29 32.0	86	199	Calvary Iowa City		

Terrain database is NGDC 30 SEC Distance + R = 73.215 or FCC spacings in KM, Distance + M = Margin in KM
 Contour distances are on direct line to and from reference station. Reference Zone = 2. With 3rd Adj
 Channels.
 Ant Column: (D= DA Standard, Z= DA 73.215, N= Not DA 73.215, _= Omni), Polarization (C,H,V,E),
 Beamtlt(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 third adjacent channel station KHTA, channel 223C3, Wake Village, TX. The predicted F(50-50) field strength of KHTA at the proposed translator site is 81.9 dBu, (see attached Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 121.9 dBu. This interfering contour extends approximately 56 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

Two factors have been investigated to determine this absence of population:

- 1.) Computer software which uses the centroid method of determining population centers, based on the 2000 census data, has determined that there are no persons within the area of overlap.
- 2.) Examination of the USGS topographic map (see attached Exhibit 12C) reveals no regularly occupied structures within the area of overlap.

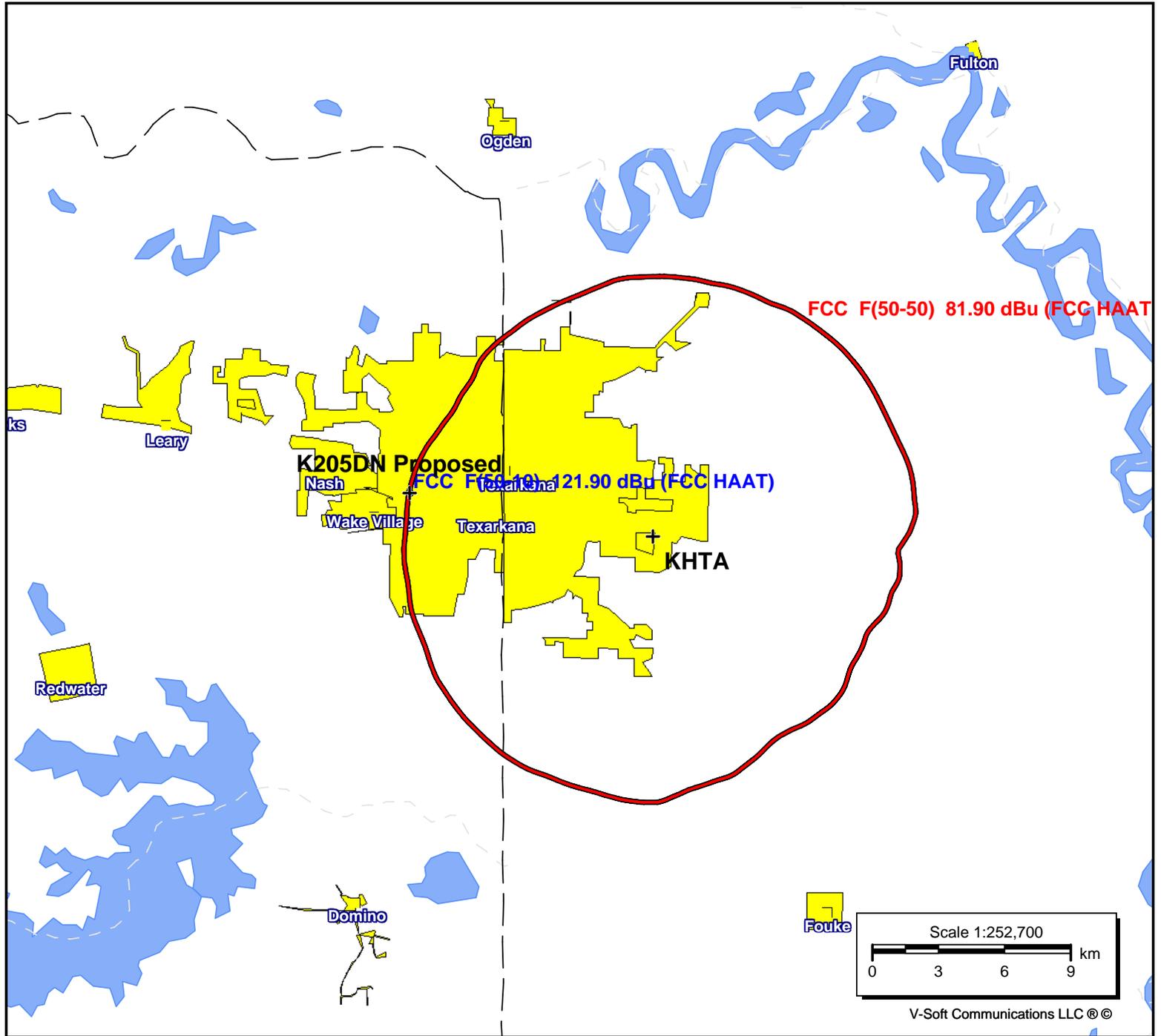
Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

K205DN Proposed

Latitude: 33-25-57 N
Longitude: 094-05-19 W
ERP: 0.099 kW
Channel: 220
Frequency: 91.9 MHz
AMSL Height: 153.0 m
Elevation: 91.0 m
Horiz. Pattern: Omni
Prop Model: None

KHTA

BLED20001003ACY
Latitude: 33-24-53 N
Longitude: 093-58-12 W
ERP: 25.00 kW
Channel: 223
Frequency: 92.5 MHz
AMSL Height: 187.0 m
Elevation: 149.0 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 second adjacent channel station KTXK, channel 218C1, Texarkana, TX. The predicted F(50-50) field strength of KTXK at the proposed translator site is 78.6 dBu, (see attached Exhibit 12B-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 118.6 dBu. This interfering contour extends approximately 81.8 meters from the proposed transmit antenna, and the area of overlap is unpopulated.

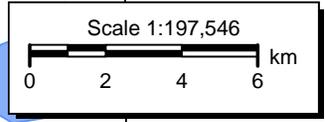
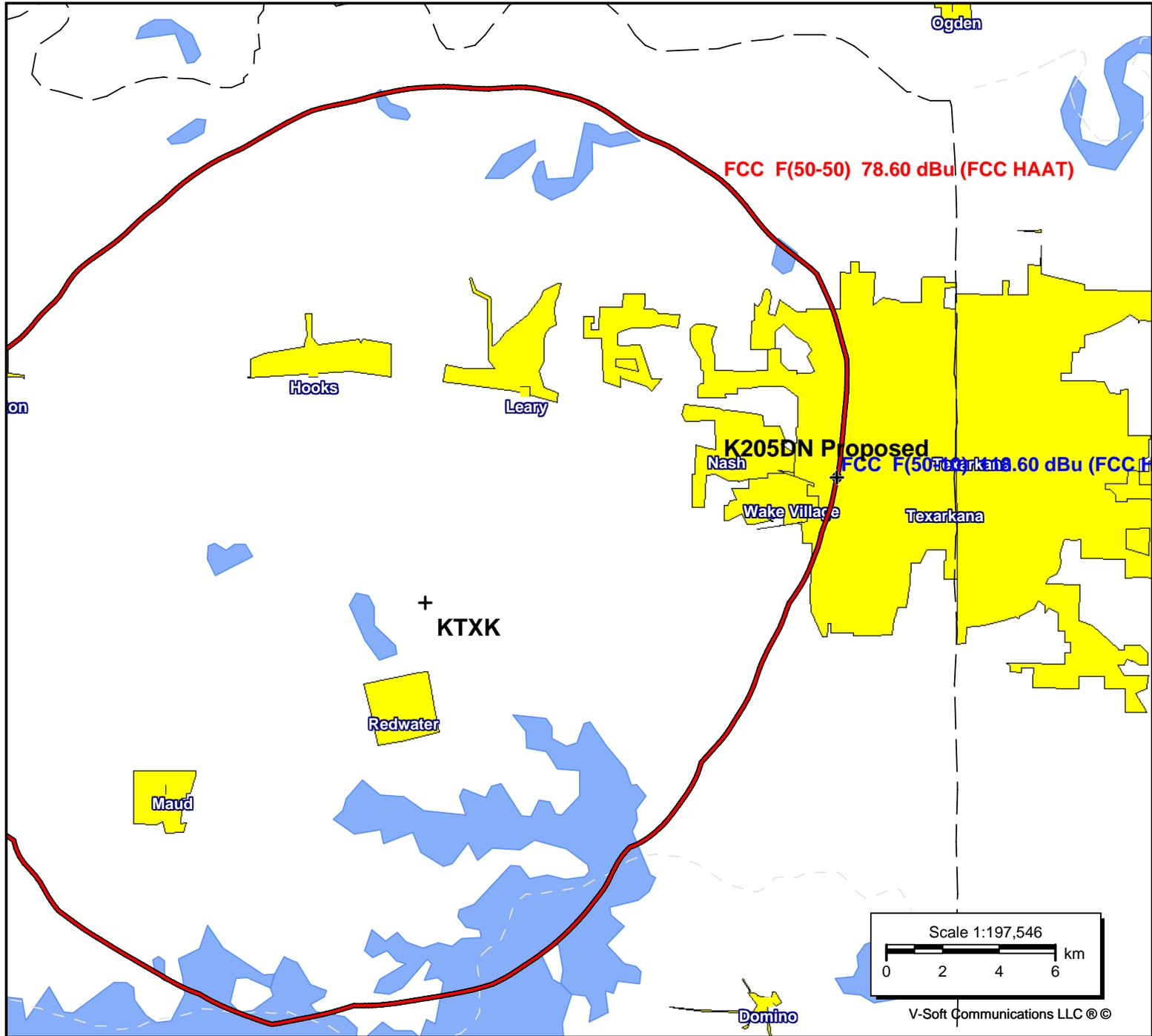
Two factors have been investigated to determine this absence of population:

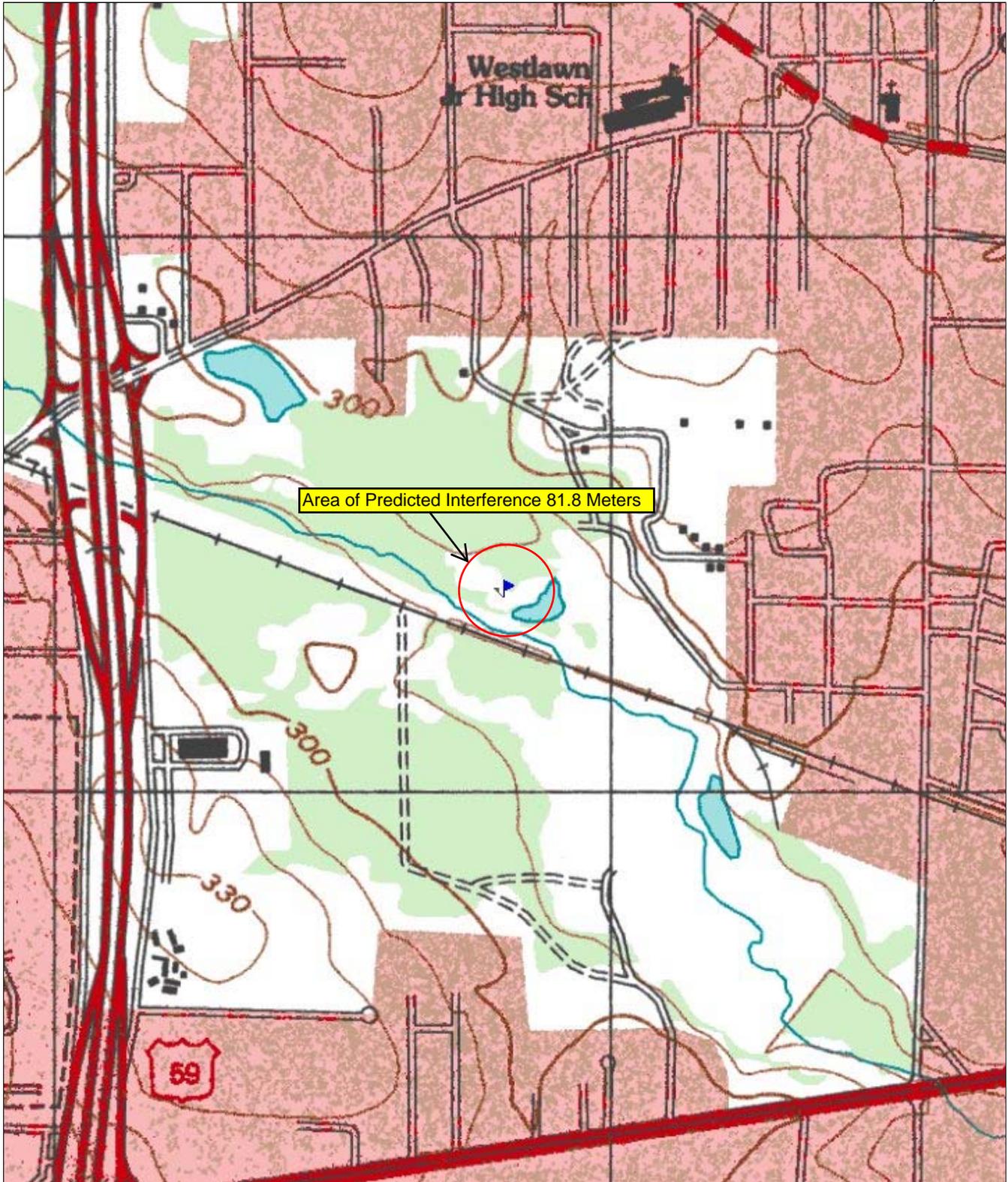
- 1.) Computer software which uses the centroid method of determining population centers, based on the 2000 census data, has determined that there are no persons within the area of overlap.
- 2.) Examination of the USGS topographic map (see attached Exhibit 12C) reveals no regularly occupied structures within the area of overlap.

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

K205DN Proposed
Latitude: 33-25-57 N
Longitude: 094-05-19 W
ERP: 0.099 kW
Channel: 220
Frequency: 91.9 MHz
AMSL Height: 153.0 m
Elevation: 91.0 m
Horiz. Pattern: Omni
Prop Model: None

KTXK
BLED20040224AAA
Latitude: 33-23-33 N
Longitude: 094-14-44 W
ERP: 100.00 kW
Channel: 218
Frequency: 91.5 MHz
AMSL Height: 183.0 m
Elevation: 92.0 m
Horiz. Pattern: Directional
Vert. Pattern: No
Prop Model: None





Tower ID: 1050928

Coordinates (NAD27): 33-25-56.55 N, 094-05-19.32 W
Coordinates (NAD83): 33-25-57 N, 094-05-20 W