

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

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.

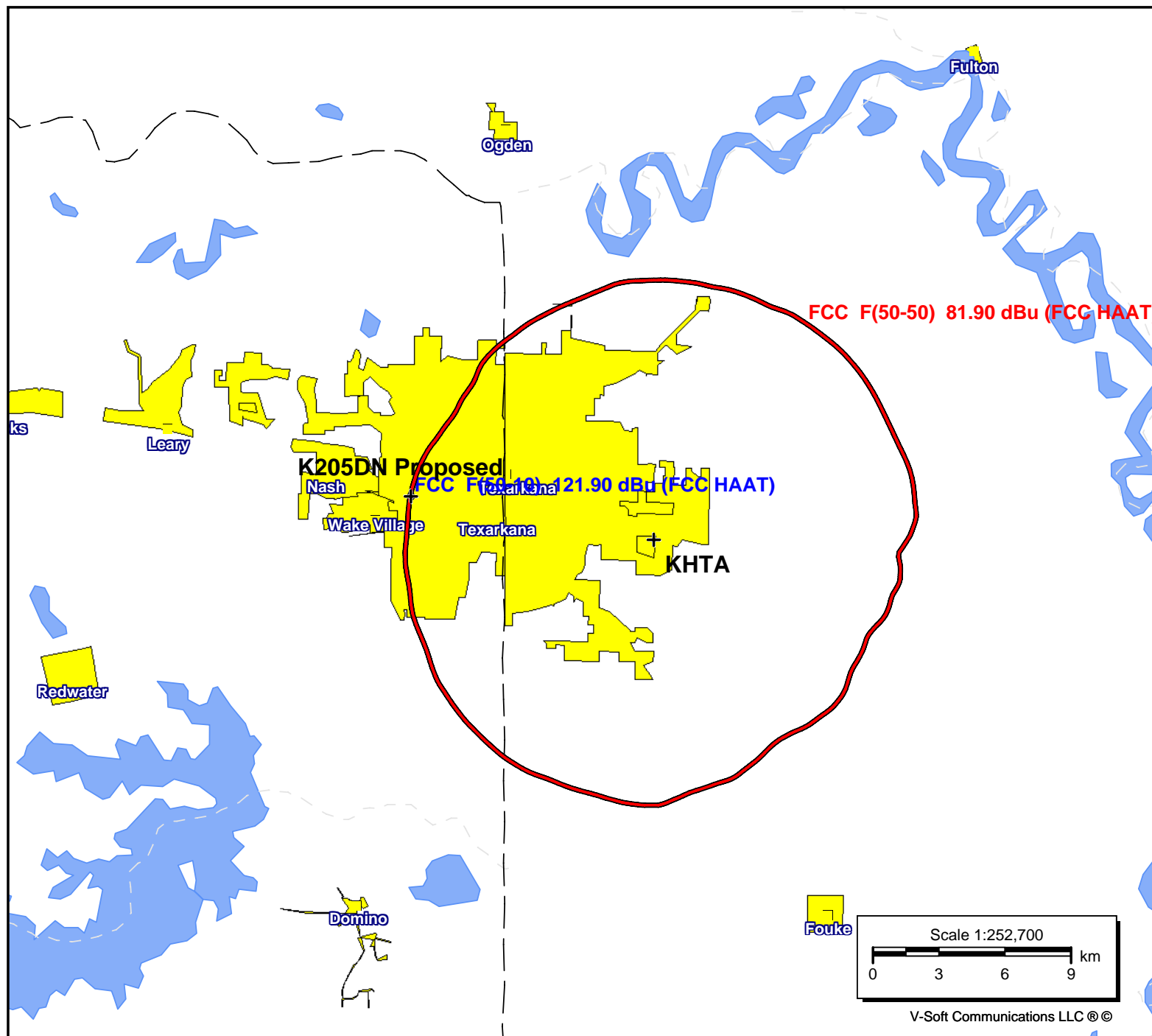
Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

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.

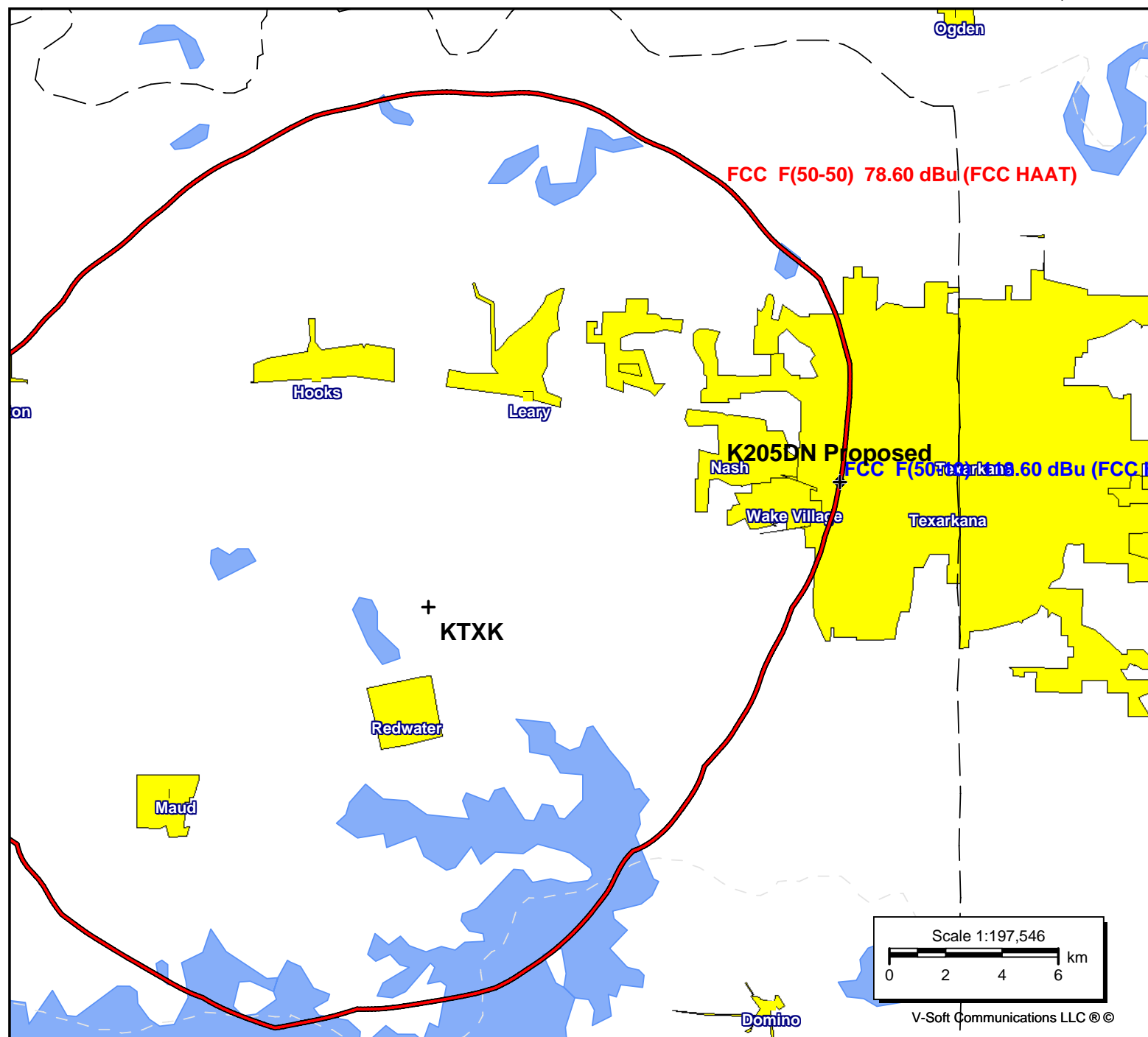
Therefore, EMF respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

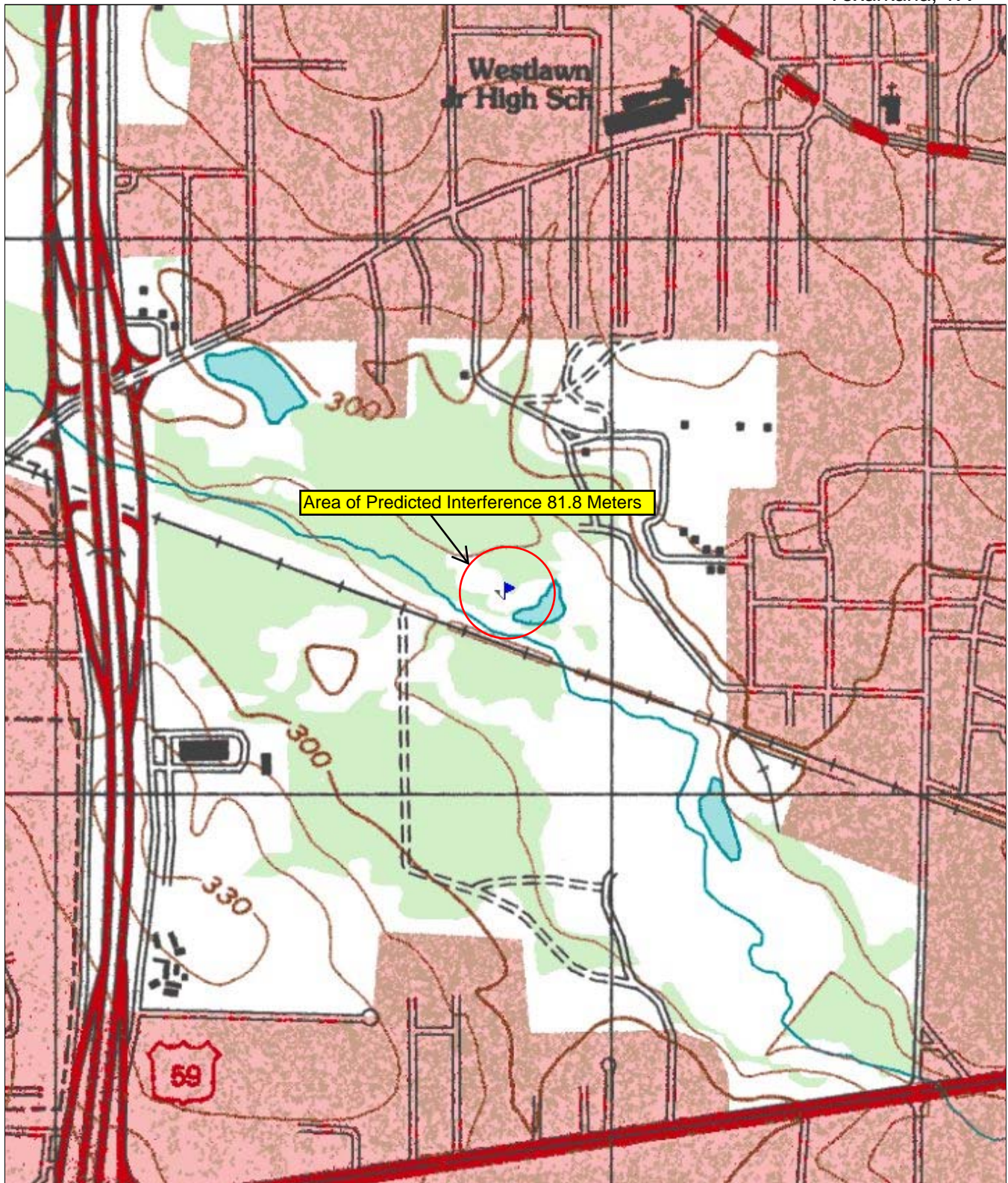
K205DN Proposed

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