Channel Study

REFERENCE — CH# 220D - 91.9 MHz, Pwr= 0.01 kW, HAAT= 2.7 M, COR= 822 M — DISPLAY DATES
39 48 11.0 N. — Average Protected F(50-50)= 3.2 km — DATA 03-22-10
100 31 43.0 W. — Omni-directional — SEARCH 03-22-10

CH	CALL	TYPE	ANT	AZI.	DIST	LAT.	Pwr(kW)	INT(km)	PRO(km)	*IN*	*OUT*
CITY		STATE		<--	FILE #	LNG.	HAAT(M)	COR(M)	LICENSEE	(Overlap in km)	
217D	K217CY	LIC	CN	188.4	1.8	39 47 14.0	0.250	1.1	9.4	-2.5*	-7.9*
Oberlin		KS		8.4	BLFT19990108TA	100 31 54.0	37	855	American Family Associatio		
220A	KTCC	LIC	CN	223.6	65.3	39 22 34.0	3.000	72.2	21.9	-10.0*<	33.3
Colby		KS		43.2	BLED19910417KC	101 03 08.0	55	1023	Colby Community College		
217A	KRLE	LIC	CX	0.0	0.0	39 48 11.0	0.270	1.2	7.6	-4.3*<	-7.8*<
Oberlin		KS		0.0	BLED20091030ADI	100 31 43.0	35	850	Educational Media Foundati		
06 2C	KWNB-TV	CPM	HN	335.2	100.8	40 37 32.0	11.900	1.1	75.1	130.5R	24.5M
Hayes Center		NE		154.9	BMPCDT20090204AAH	101 01 45.0	221	1160	Pappas Telecasting Of Cent		
06 2C	KWNB-TV	AP	HN	335.2	100.8	40 37 32.0	11.900	1.1	75.1	130.5R	24.5M
Hayes Center		NE		154.9	BDSTA20090323AAM	101 01 45.0	221	1160	Pappas Telecasting Of Cent		
06 2	KWNB-DR	APR	HN	335.2	100.8	40 37 32.0	3.000	1.1	61.7	130.5R	37.9M
Hayes Center		NE		154.9	BPRM20080801BDB	101 01 45.0	221	1160	Pappas Telecasting Of Cent		
06 2C	KWNB-TV	AP	HN	335.2	100.8	40 37 32.0	3.000	1.1	61.7	130.5R	37.9M
Hayes Center		NE		154.9	BDSTA20090204ABM	101 01 45.0	221	1160	Pappas Telecasting Of Cent		
219C1	KPNE-FM	LIC	E	338.9	145.5	41 01 22.0	88.000	100.9	69.1	41.4	71.9
North Platte		NE		158.5	BLED20060530AKC	101 09 14.0	288	1246	Nebraska Educational Telec		
218A	KSNB	CP	CX	90.4	54.6	39 47 51.0	0.250	1.1	10.2	50.3	44.1
Norton		KS		270.9	BMPED20080617ACN	99 53 29.0	52	775	American Family Associatio		
218D	K218CD	LIC	CN	90.6	54.4	39 47 47.0	0.250	1.1	9.9	50.2	44.3
Norton		KS		271.0	BLFT19961224TG	99 53 35.0	50	771	American Family Associatio		
223C1	KQMA	LIC	CN	100.7	107.5	39 37 02.0	100.000	6.8	57.1	97.5	50.2
Phillipsburg		KS		281.5	BLH19840726CY	99 17 55.0	156	734	Walter C. Seidel		

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 = 2, Co to 3rd adjacent.
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.
"<" = Contour Overlap.

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of third adjacent channel station KRLE, channel 217A, Oberlin, KS. The predicted F(50-50) field strength of KRLE at the proposed translator site is 115.0 dBu, (see Exhibit 13A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 155.0 dBu. This interfering contour extends approximately 0.4 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 10 meter level on a 91 meter tower).

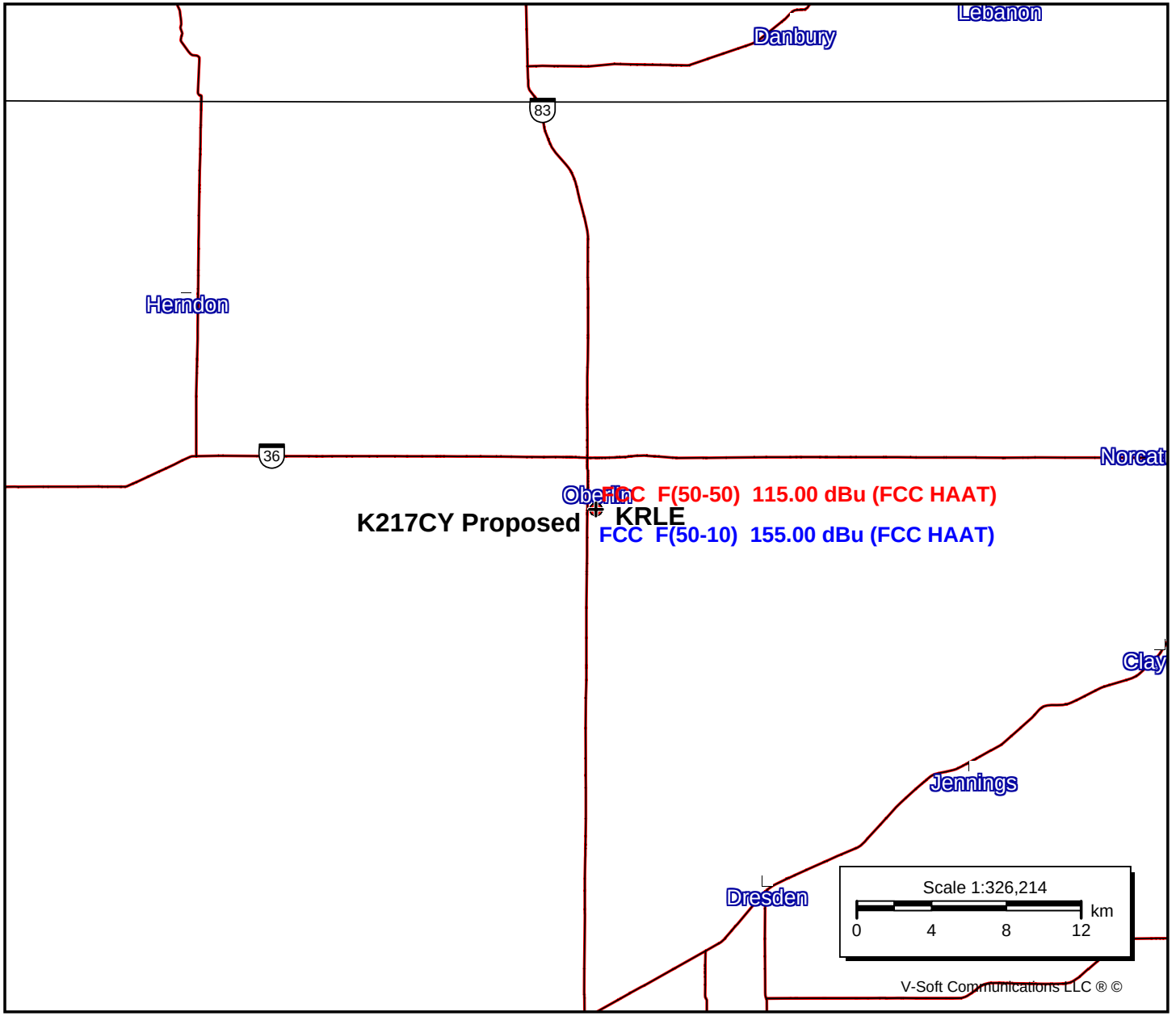
To confirm the absence of population within the interference aperture, AFA has examined the attached topographic map (see Exhibit 13B), which indicates a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 0.4 meter interference aperture.

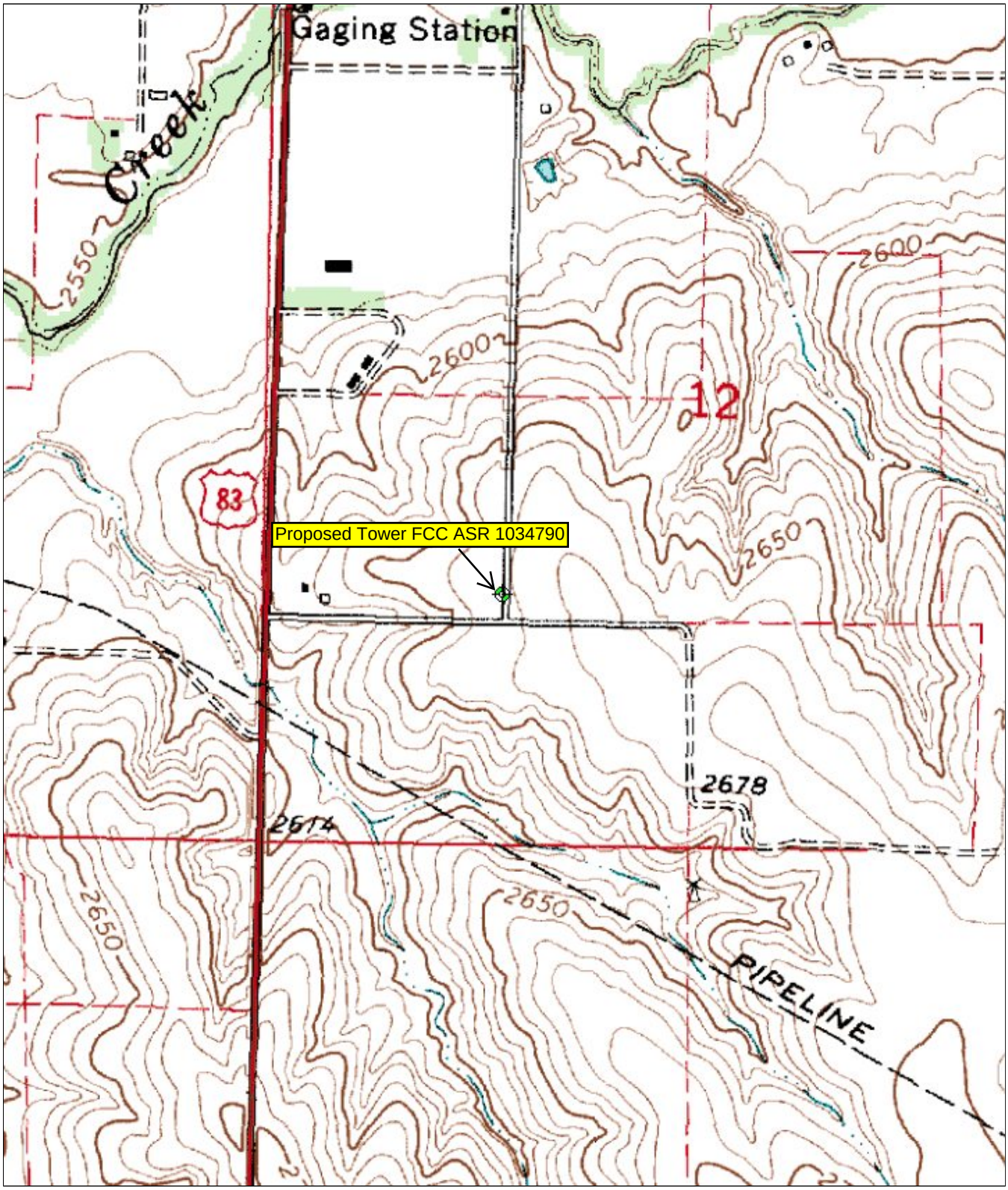
Therefore, AFA respectfully requests a waiver of C.F.R 74.1204 based on no population within the area of predicted interference.

K217CY Proposed

Latitude: 39-48-11 N
Longitude: 100-31-43 W
ERP: 0.01 kW
Channel: 220
Frequency: 91.9 MHz
AMSL Height: 822.0 m
Elevation: 812.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

KRLE
BLED20091030ADI
Latitude: 39-48-11 N
Longitude: 100-31-43 W
ERP: 0.27 kW
Channel: 217
Frequency: 91.3 MHz
AMSL Height: 850.0 m
Elevation: 812.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None





N

Tower ID: 1034790

Coordinates (NAD27): 39-48-10.98 N, 100-31-43.48 W
Coordinates (NAD83): 39-48-11 N, 100-31-45 W