

Channel Study

REFERENCE		CH# 288D - 105.5 MHz, Pwr= 0.01 kW, HAAT= 276.4 M, COR= 586 M								DISPLAY DATES	
40 28 19.0 N.		Average Protected F(50-50)= 9.7 km								DATA	11-08-07
79 59 40.0 W.										SEARCH	11-08-07
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*	
288D Pittsburgh	W288BO	LIC C PA	0.0 0.0	0.00 BLFT20070907ACO	40 28 19.0 79 59 40.0	0.038	16.4 367	5.1 Educational Media Foundati	-25.78*	-36.26*	
290B Pittsburgh	WXDX-FM	CP CX PA	319.4 139.4	3.21 BPH20070614ADX	40 29 38.0 80 01 09.0	15.500 272	5.7 577	66.7 Capstar Tx Limited Partner	-11.83*<	-63.98*<	
290B Pittsburgh	WXDX-FM	LIC CN PA	26.7 206.7	2.35 BLH5106	40 29 27.0 79 58 55.0	72.000 131	5.9 432	64.6 Capstar Tx Limited Partner	-12.97*<	-62.70*<	
288B1 Bethlehem	WUKL	LIC NCN WV	232.7 52.3	76.31 BLH19940502KA	40 03 17.0 80 42 26.0	13.500 95	89.6 412	26.7 Keymarket Licenses, Llc	-23.42*<	9.62	
288B1 Brookville	WMKX	LIC NC PA	47.0 227.6	106.69 BLH19980611KC	41 07 21.0 79 03 51.0	16.000 126	112.7 595	48.8 Strattan Broadcasting, Inc	-15.63*<	19.61	
286B Salem	WQXK	LIC C OH	303.3 122.8	84.40 BLH20000410ACM	40 53 08.0 80 49 55.0	88.000 136	6.4 494	67.9 Cumulus Licensing Llc	68.33	16.01	
287B Frostburg	WFRB-FM	LIC CN MD	134.7 315.4	123.91 BLH19851104KE	39 41 02.0 78 57 57.0	13.500 292	73.0 966	62.3 Wtbo-wkgo Corporation, L.L	40.92	40.71	
289A Portage	WLKJ	LIC C PA	94.6 275.4	113.79 BMLED20060201AWR	40 22 59.0 78 39 31.0	3.000 98	46.3 741	30.8 Educational Media Foundati	57.93	69.66	
286D Waynesburg	W286AL	LIC C PA	190.1 10.0	67.88 BLFT20070227ACJ	39 52 12.0 80 08 01.0	0.010	0.2 529	8.0 Broadcast Communications,	58.20	59.67	

Terrain database is NGDC 30 SEC Distance + R = FCC Required Spacings in KM, Distance + M = Margin in KM
ERP and HAAT on direct-line with reference station.

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

Reference station has protected zone issue: Canada- AM tower.

Compliance with C.F.R. 74.1204

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WDX-FM (BPH20070614ADX), channel 290B, Pittsburgh, PA. The predicted F(50-50) field strength of WDX-FM at the proposed translator site is 106.8 dBu, (see Exhibit 12A-1). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 146.8 dBu. This interfering contour extends approximately 1.0 meters from the proposed transmit antenna, and the area of overlap does not reach the ground (the antenna will be mounted at the 225 meter level on a 263 meter tower).

The proposed FM Translator is located within the protected 60 dBu contour of second adjacent channel station WDX-FM (BLH5106), channel 290B, Pittsburgh, PA. The predicted F(50-50) field strength of WDX-FM at the proposed translator site is 114.3 dBu, (see Exhibit 12A-2). Therefore, the respective predicted interfering contour generated by the proposed FM Translator is 154.3 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 225 meter level on a 263 meter tower).

To confirm the absence of population within the interference aperture, EMF has examined the attached topographic map (see Exhibit 12A-3), which indicates a lack of structures near the proposed tower, and therefore no structure which could be tall enough to enter the 1.0 or 0.4 meter interference apertures.

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

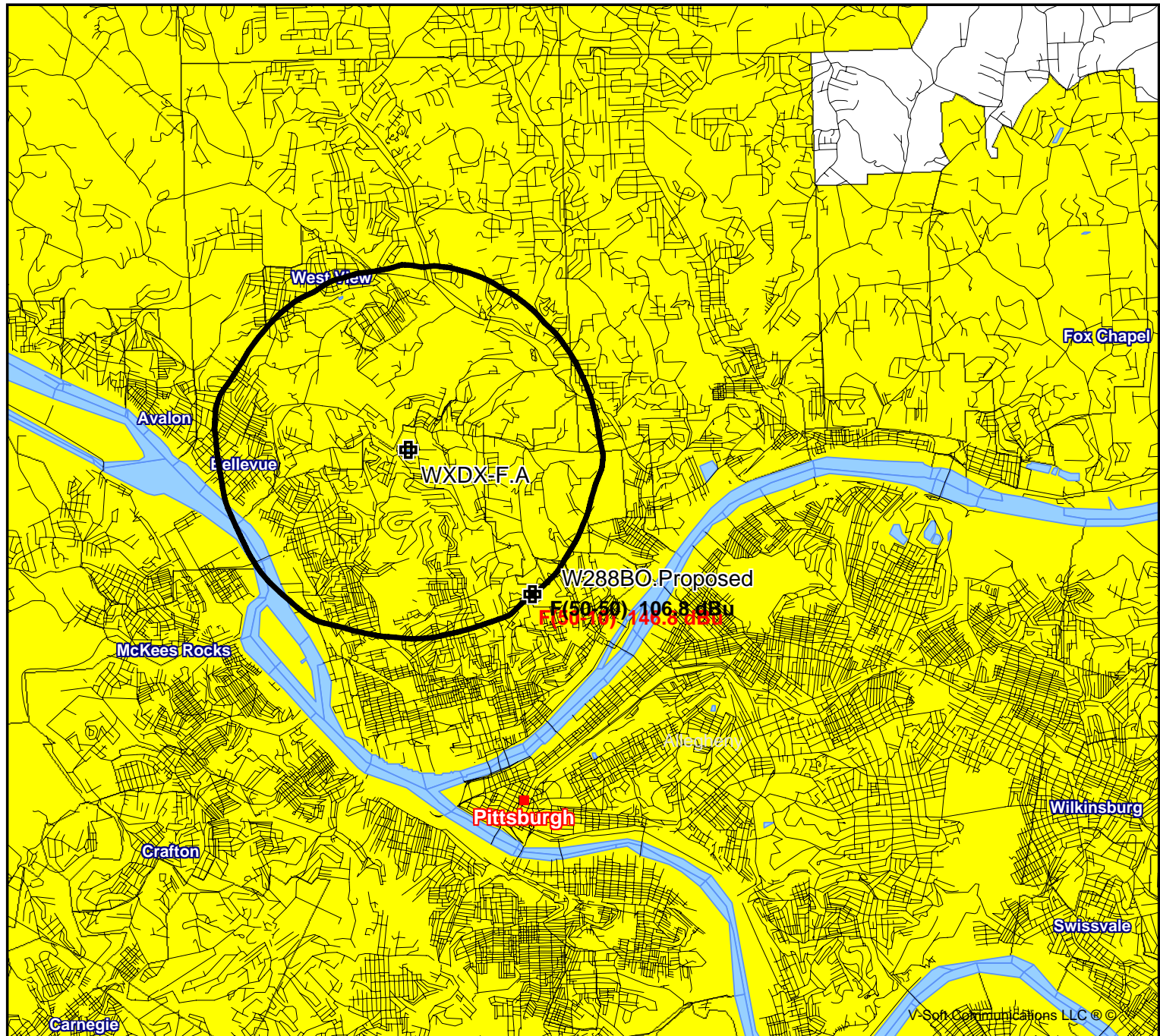
W288BO.Proposed

Latitude: 40-28-19 N
Longitude: 079-59-40 W
ERP: 0.01 kW
Channel: 288
Frequency: 105.5 MHz
AMSL Height: 586.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WXDX-F.A

BPH20070614ADX
Latitude: 40-29-38 N
Longitude: 080-01-09 W
ERP: 15.50 kW
Channel: 290
Frequency: 105.9 MHz
AMSL Height: 577.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

■ W288BO.Proposed
■ WXDX-F.A





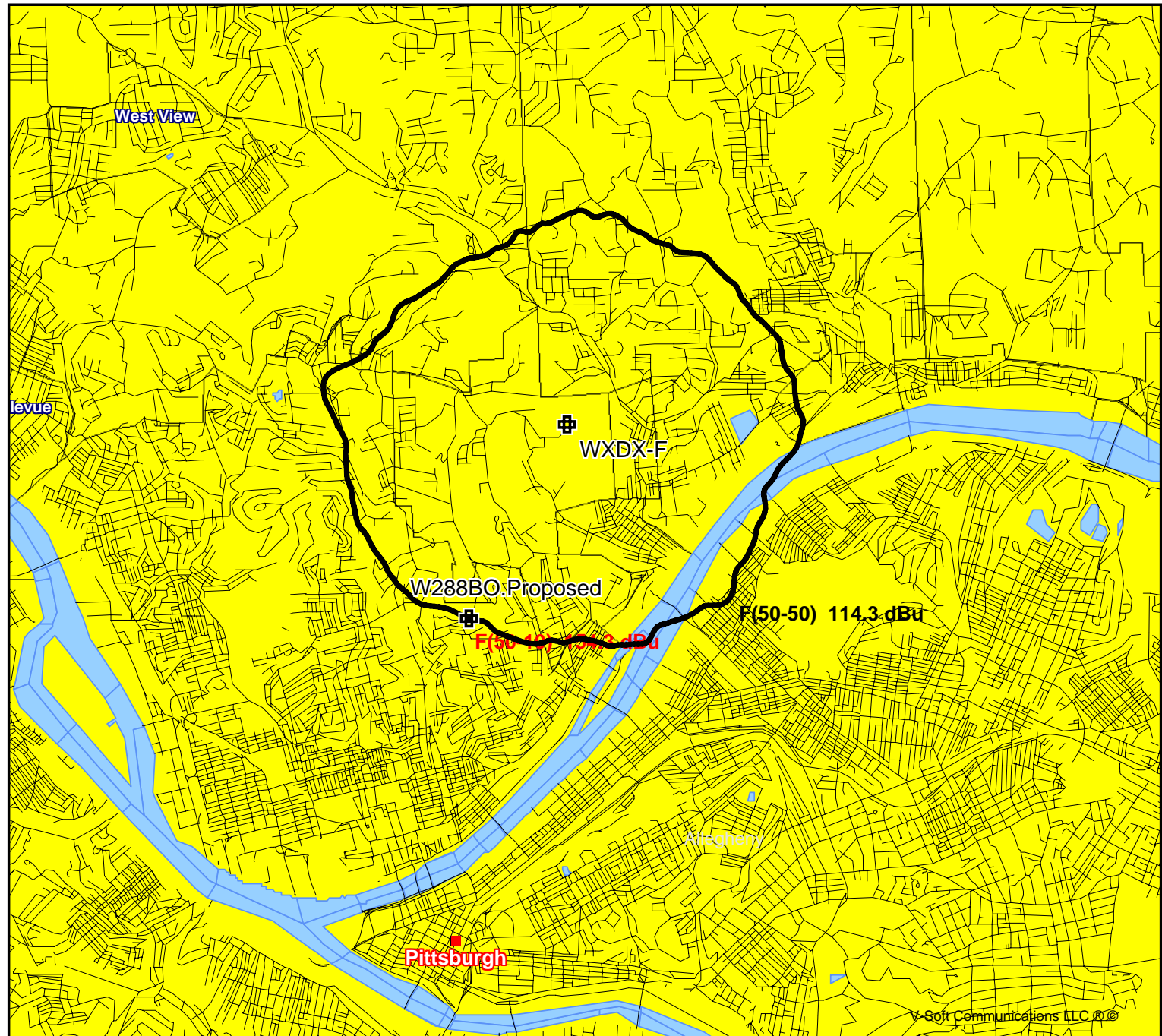
W288BO.Proposed

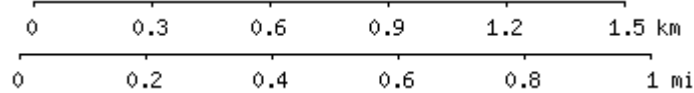
Latitude: 40-28-19 N
Longitude: 079-59-40 W
ERP: 0.01 kW
Channel: 288
Frequency: 105.5 MHz
AMSL Height: 586.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

WXDX-F

BLH5106
Latitude: 40-29-27 N
Longitude: 079-58-55 W
ERP: 72.00 kW
Channel: 290
Frequency: 105.9 MHz
AMSL Height: 432.0 m
Horiz. Pattern: Omni
Vert. Pattern: No
Prop Model: None

 W288BO.Proposed
 WXDX-F





40° 28' 19"N, 79° 59' 40"W (NAD27)
WDSY-FM (Pittsburgh), USGS Pittsburgh East (PA) Quadrangle
 Projection is UTM Zone 17 NAD83 Datum



M=-9.129
G=0.653