

INTRODUCTION

This technical report is submitted as part of the auction filing window for AM broadcasters (AU Docket No. 17-143). Iglesia Nueva Vida of High Point, licensee of WDYT-AM, facility 6817, is seeking FM channel 281 at Kings Mountain NC. for the associated translator.

Exhibit E-1 includes overlap studies which show that the proposal complies with all Commission rules and policies. The proposed 60 dBu contour lies entirely within the 2 mV/m contour of WDYT. A second channel protection waiver is requested of Section 74.1204 in accordance with *Living Way Ministries, Inc.* (FCC 08-242).

R.F. EXPOSURE

The RF contribution as calculated using the formula from OET Bulletin 65 shows a worst case RF factor is calculated to be less than 1uW/cm2 well below the 200uW/cm2 maximum permissible exposure for general public exposure. In addition, as shown by the attached aerial photograph, access to the property is marked and controlled as an existing broadcast facility. All tower maintenance is controlled and transmitters turned off as required during maintenance. The tower is existing and no environmental issues are known.

DISCUSSION

The signal of WKQC is calculated at 73.4 dBu at the proposed site therefore the IX contour is 114.4 dBu. The signal of WSOC is calculated at 75 dBu at the proposed site therefore the IX contour is 110 dBu. A PSI two bay 0.5 wavelength spaced circularly polarized antenna will produce this contour according to the table below:

DEP.ANGLE	FIELD	PWR KW	M from TWR	M HGT
00	1.0	0.1000	150.4	057.0
05	0.987	0.0974	147.9	044.1
10	0.948	0.0899	140.4	032.2

15	0.887	0.0787	128.8	022.5
20	0.807	0.0651	114.0	015.5
25	0.713	0.0508	097.2	011.7
30	0.612	0.0375	079.7	011.0
35	0.508	0.0258	062.6	013.2
40	0.407	0.0166	046.9	017.7
45	0.313	0.0098	033.3	023.7
50	0.23	0.0053	022.2	030.5
55	0.16	0.0026	013.8	037.3
60	0.104	0.0011	007.8	043.5
65	0.062	0.0004	003.9	048.6
70	0.032	0.0001	001.7	052.5
75	0.013	0.0000	000.5	055.1
80	0.004	0.0000	000.1	056.4
85	0.001	0.0000	000.0	056.9
90	0.001	0.0000	000.0	056.9

A aerial photograph is attached depicting no tall buildings in the area of the contour. The interference contours will not reach any populated area or major highway. Based on this a waiver of Section 74.1204 is requested in accordance with Living Way Ministries, Inc. (FCC 08-242) with regards to adjacents WSOC and WKQC.

WDYT-AM TRANSLATOR
 Iglesia Nueva Vida Of High Point, Inc.
 CH# 281D - 104.1 MHz, Pwr= 0.1 kw, HAAT= 0.0 M, COR= 268 M
 Average Protected F(50-50)= 5.64 km
 Omni-directional

DISPLAY DATES
 DATA 11-20-17
 SEARCH 11-30-17

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* in km)
281C Winston-salem	WTQR	LIC NC_ NC	30.7 211.2	141.27 BLH20110809ABB	36 22 36.4 80 22 08.6	100.000 528	195.1 850	90.1 Clear Channel Broadcasting	-60.5*	28.9
279C0 Charlotte	WSOC-FM	LIC _CN NC	94.9 275.2	44.44 BMLH20140821ABX	35 15 06.0 80 41 12.0	100.000 411	11.3 613	78.4 Wxtu License Limited Partn	25.3	-34.7*
284C0 Charlotte	WKQC	LIC DCY NC	94.9 275.2	44.44 BLH19920416KB	35 15 06.0 80 41 12.0	100.000 369	10.4 570	74.0 Wkis License Limited Partn	26.2	-30.3*
281D Kings Mountain	1763667	APP _C_ NC	0.0 0.0	0.00 BNPFT20170802ADM	35 17 12.0 81 10 28.0	0.100	21.4 268	6.4 Iglesia Nueva Vida Of High	-27.8*	-27.8*
281D Fort Mill	W281BE	LIC _C_ SC	154.0 334.1	50.85 BLFT20140813AAA	34 52 31.0 80 55 48.0	0.250	48.9 307	14.5 Our Three Sons Broadcastin	-5.9	11.3
282D Charlotte	W282BP	LIC _C_ NC	106.2 286.4	34.34 BLFT20110128ACF	35 12 00.0 80 48 41.0	0.250 111	19.7 315	13.1 whvn, Inc.	6.6	10.0
282D Gaffney	W282AX	LIC _C_ SC	242.8 62.6	48.06 BLFT20090811ACO	35 05 18.0 81 38 40.0	0.250 36	13.5 254	9.6 Fowler Broadcast Communica	29.0	30.3
281L1 Forest City	WOVE-LP	LIC _ NC	274.6 94.2	64.28 BLL20170120AAN	35 19 51.8 81 52 51.3	0.064 37	322		37.1	39.1
280D Marion	1768070	APP DC_ NC	299.4 118.9	84.95 BNPFT20170726ABW	35 39 32.0 81 59 38.0	0.250	35.1 732	23.3 Wbrm, Inc.	44.3	53.4

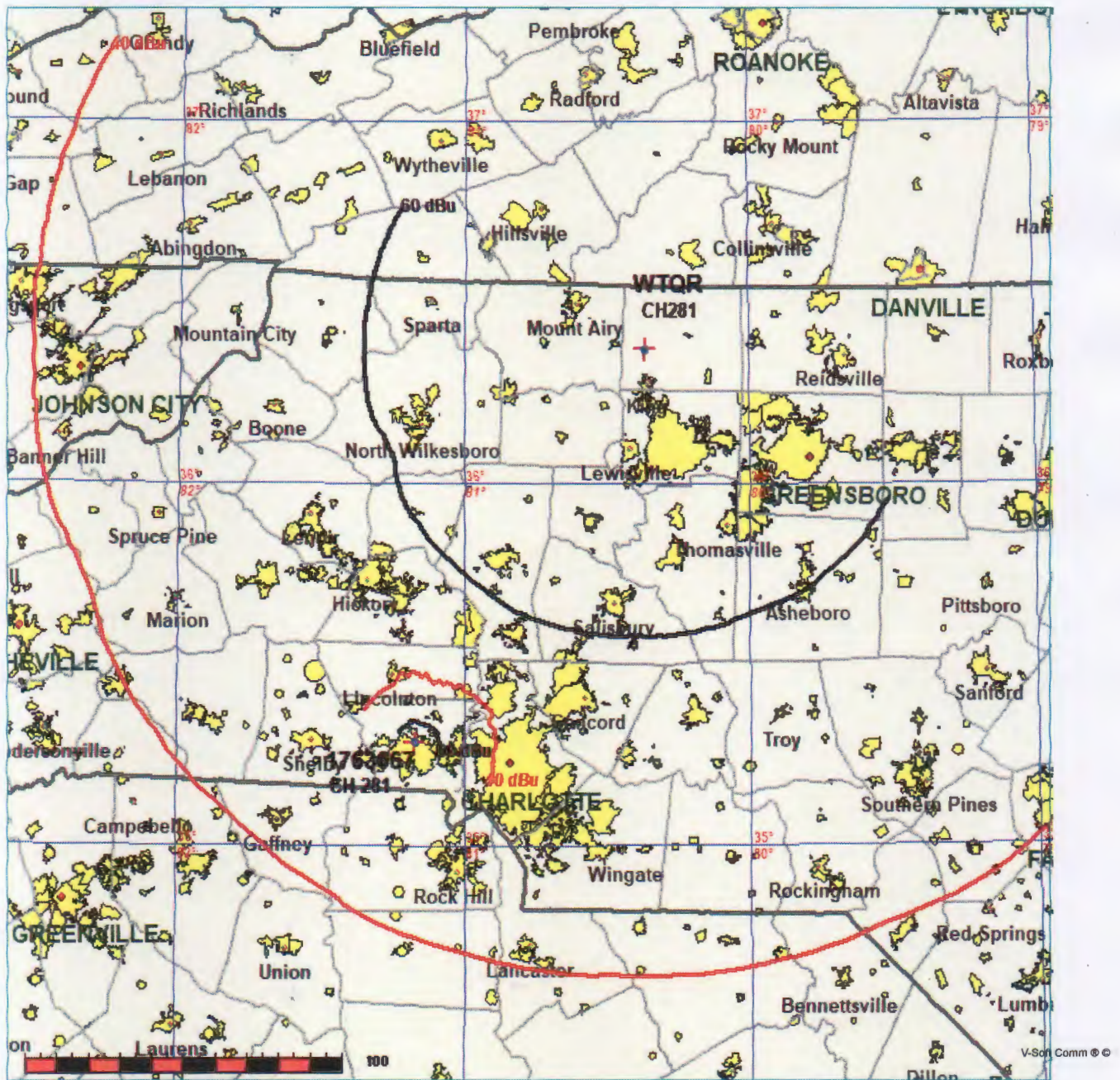
Terrain database is USGS 03 SEC , R= 73.215 qualifying spacings or FCC minimum Spacings in KM, M= Margin in KM
 In & Out distances between contours are shown at closest points. Reference zone= East Zone, Co to 3rd adjacent.
 All separation margins (if shown) include rounding. Call signs with strikeout need not be protected.
 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 restricted contour.
 Reference station has protected zone issue: AM tower

WDYT-AM TRANSLATOR
Iglesia Nueva Vida Of High Point, Inc.

FMCommander Single Allocation Study - 11-30-2017 - USGS 03 SEC
1763667's Overlaps (In= -60.52 km, Out= 28.92 km)

1763667 CH 281 D
Lat= 35 17 12.0, Lng= 81 10 28.0
0.1 kW 0 m HAAT, 268 m COR
Prot.= 60 dBu, Intef.= 40 dBu

WTQR CH 281 C 73.215 N BLH20110809ABB
Lat= 36 22 36.4, Lng= 80 22 08.6
100.0 kW 528 m HAAT, 850 m COR
Prot.= 60 dBu, Intef.= 40 dBu

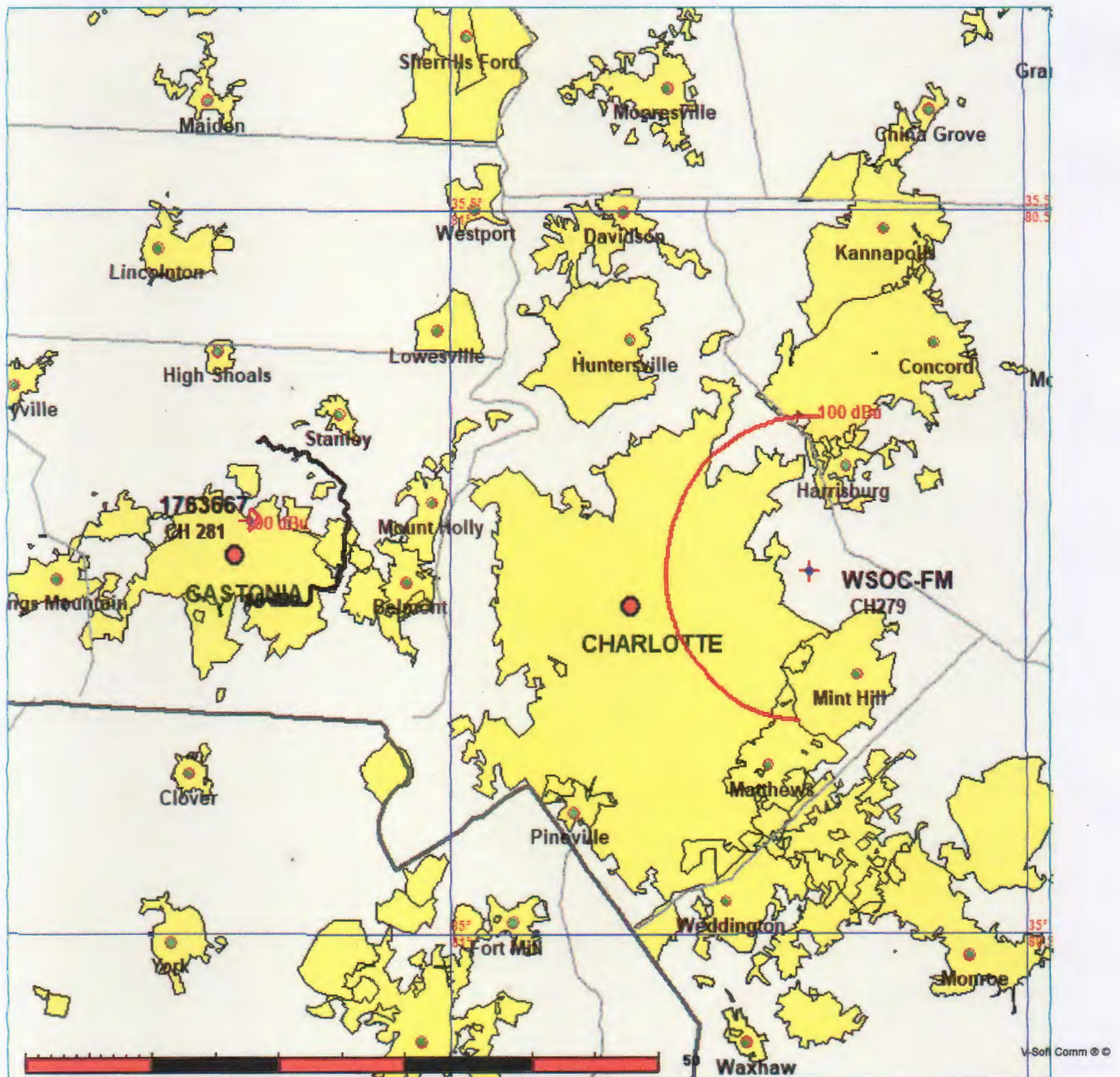


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FMCommander Single Allocation Study - 11-30-2017 - USGS 03 SEC
1763667's Overlaps (In= 25.29 km, Out= -34.68 km)

1763667 CH 281 D
Lat= 35 17 12.0, Lng= 81 10 28.0
0.1 kW 0 m HAAT, 268 m COR
Prot.= 60 dBu, Intef.= 100 dBu

WSOC-FM CH 279 C0 BMLH20140821ABX
Lat= 35 15 06.0, Lng= 80 41 12.0
100.0 kW 411 m HAAT, 613 m COR
Prot.= 60 dBu, Intef.= 100 dBu

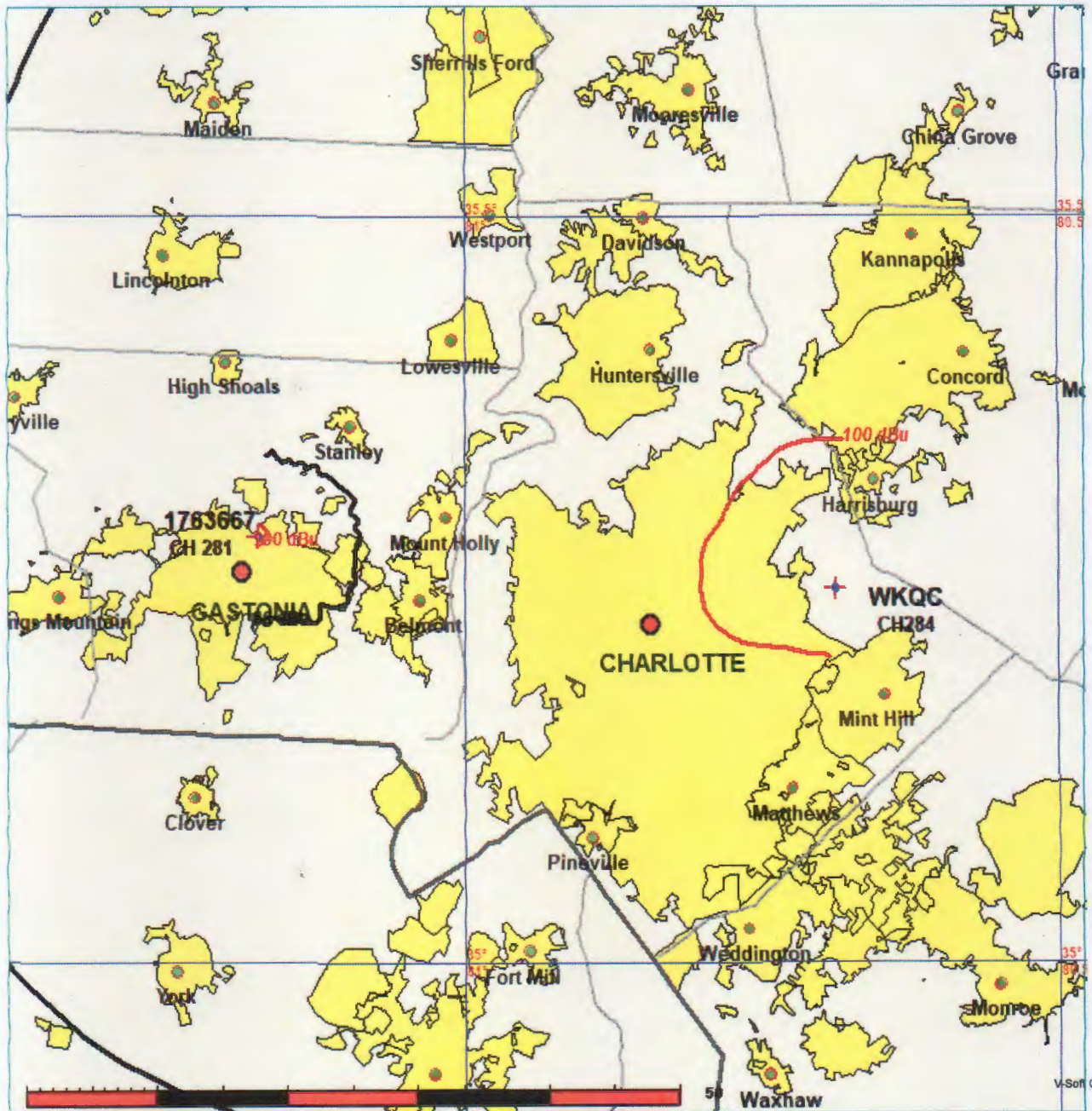


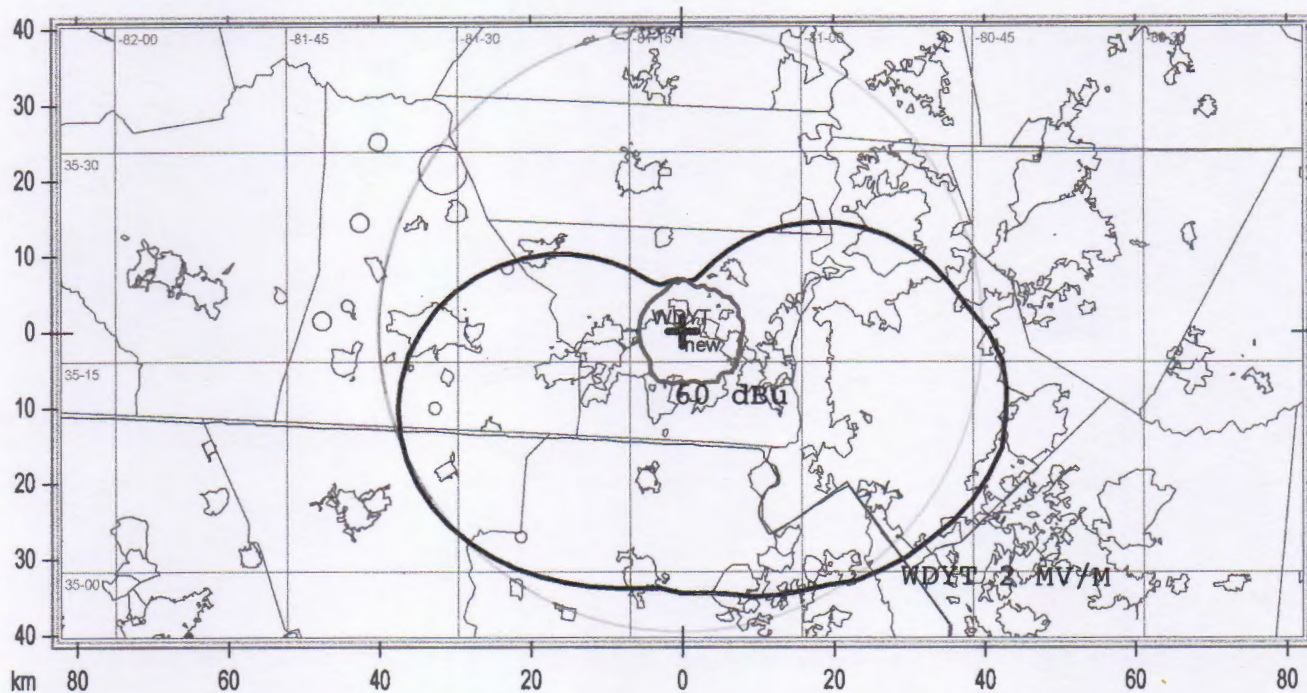
WDYT-AM TRANSLATOR
Iglesia Nueva Vida Of High Point, Inc.

FMCommander Single Allocation Study - 11-30-2017 - USGS 03 SEC
1763667's Overlaps (In= 26.21 km, Out= -30.28 km)

1763667 CH 281 D
Lat= 35 17 12.0, Lng= 81 10 28.0
0.1 kW 0 m HAAT, 268 m COR
Prot.= 60 dBu, Intef.= 100 dBu

WKQC CH 284 C0 DA BLH19920416KB
Lat= 35 15 06.0, Lng= 80 41 12.0
100.0 kW 369 m HAAT, 570 m COR
Prot.= 60 dBu, Intef.= 100 dBu





SERVICE CONTOURS

County Borders
 State Borders
 City Borders
 Lat/Lon Grid



AERIAL PHOTOGRAPH