

**Channel Study**

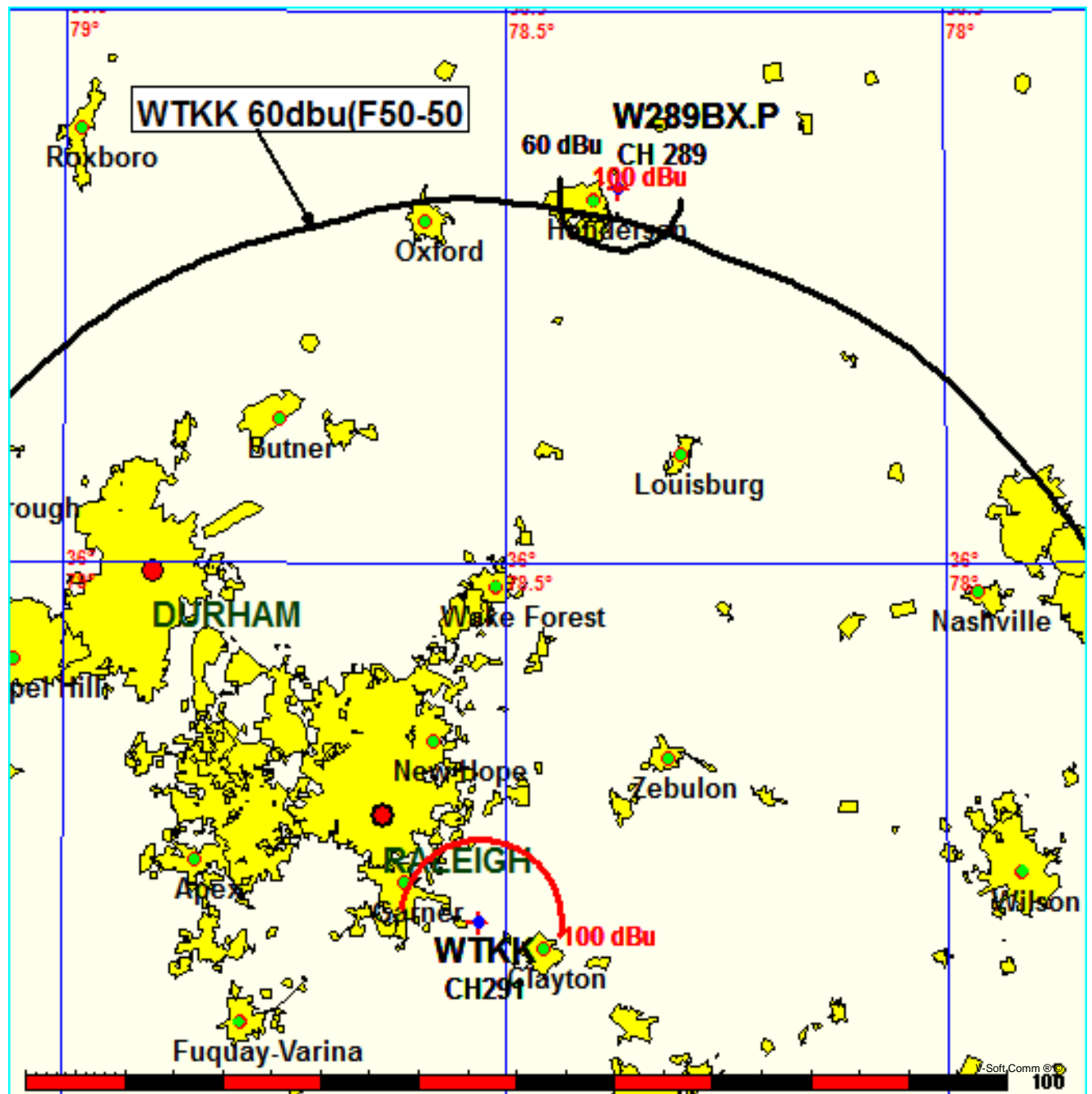
REFERENCE		CH# 289D - 105.7 MHz, Pwr= 0.013 kW, HAAT= 109.1 M, COR= 240.1 M								DISPLAY DATES		
36 20 30.0 N.		Average Protected F(50-50)= 6.5 km								DATA 09-26-16		
78 22 14.9 W.		Omni-directional								SEARCH 09-27-16		
CH CITY	CALL	TYPE	ANT STATE	AZI. <--	DIST FILE #	LAT. LNG.	Pwr(kW) HAAT(M)	INT(km) COR(M)	PRO(km) LICENSEE	*IN* (Overlap in km)	*OUT*	
289D Henderson	W289BX!	LIC	C NC	299.4 119.4	1.43 BLFT20160413ADY	36 20 52.7 78 23 05.0	0.055	15.7 165	4.9 Educational Media Foundati	-20.8	-25.4	
291C1 Knightdale	WTKK	LIC	C NC	190.8 10.7	75.37 BLH20090601APS	35 40 28.0 78 31 40.0	27.500 489	8.3 567	72.4 Capstar Tx, Llc	60.8	2.7	
286C1 Durham	WDCG	LIC	NCX NC	210.1 29.8	80.46 BLH20080310ADT	35 42 50.0 78 49 04.0	73.000 339	9.5 443	70.0 Capstar Tx, Llc	64.6	10.3	
289D Raleigh	W289BD	LIC	C NC	204.4 24.2	67.30 BLFT20160422AAJ	35 47 21.0 78 40 45.0	0.250 120	46.7 222	13.7 Truth Broadcasting Corpora	14.4	33.2	
289C1 Clemmons	WVBZ	LIC	NCX NC	271.8 90.7	179.39 BLH20110902AAJ	36 22 36.4 80 22 08.6	30.000 472	155.6 794	66.8 Clear Channel Broadcasting	17.9	92.9	
288D Wake Forest	W288BQ	LIC	C NC	200.2 20.1	38.85 BLFT20070314ADA	36 00 47.0 78 31 12.0	0.013 92	7.6 201	5.5 Educational Media Foundati	25.0	24.7	
288A Lawrenceville	WHLQ	LIC	CN VA	44.6 224.9	64.37 BLH19910925KA	36 45 10.0 77 51 49.0	6.000 47	29.8 130	20.3 Ronnie D. Joyner Ministrie	28.2	35.2	
289C1 Columbia	WRSF	LIC	CN NC	104.1 285.3	199.15 BLH19840316AA	35 53 18.0 76 13 50.0	100.000 187	160.2 187	62.5 East Carolina Radio, Inc.	32.4	114.8	
289D Rocky Mount	W289BL	LIC	C NC	122.3 302.8	85.38 BLFT20110222ACT	35 55 44.0 77 34 13.0	0.250 88	40.8 105	11.9 Johnson Broadcasting Ventu	38.0	51.7	
288D Durham	W288BU	LIC	DC NC	228.9 48.6	57.92 BLFT20150403AAM	35 59 54.0 78 51 21.0	0.250 131	13.0 235	9.3 Truth Broadcasting Corpora	38.2	39.2	
288L1 Red Oak	WHFK-LP	LIC		131.4 311.7	57.62 BLL20150928AAI	35 59 52.0 77 53 27.0	0.076 35	83		43.4	42.9	
288D Selma	W288DH	CP	C NC	182.5 2.5	80.62 BMPFT20160129AQD	35 36 56.4 78 24 34.0	0.099	12.1 149	8.6 Lamm Media Group, Inc.	62.2	63.2	
288A Altavista	WKDE-FM	LIC	CN VA	320.4 139.9	118.59 BMLH19970305KB	37 09 37.0 79 13 28.0	6.000 100	46.9 313	30.5 D.j. Broadcasting, Inc	64.9	78.5	
289A Richmond	WKJS	LIC	CN VA	30.2 210.7	151.16 BLH19981023KA	37 30 52.0 77 30 28.0	2.300 162	79.5 218	26.8 Radio One Licenses, Llc	65.3	103.2	
288D Wilson	W288BP	LIC	C NC	149.4 329.7	81.55 BLFT20070907AAW	35 42 32.0 77 54 38.0	0.038 64	8.4 99	5.9 Educational Media Foundati	66.6	66.5	

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Terrain database is GLOBE 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= East Zone, 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)  
< = Contour Overlap  
Reference station has protected zone issue: AM tower

FMCommander Single Allocation Study - 09-27-2016 - GLOBE 30 Sec  
W289BX.P's Overlaps (In= 60.82 km, Out= 2.74 km)

W289BX.P CH 289 D  
Lat= 36 20 30.0, Lng= 78 22 14.9  
0.013 kW 109.1 m HAAT, 240.1 m COR  
Prot.= 60 dBu, Intef.= 100 dBu

WTKK CH 291 C1 BLH20090601APS  
Lat= 35 40 28.0, Lng= 78 31 40.0  
27.5 kW 489 m HAAT, 567 m COR  
Prot.= 60 dBu, Intef.= 100 dBu



FMCommander Single Allocation Study - 09-27-2016 - GLOBE 30 Sec  
W289BX.P's Overlaps (In= 64.65 km, Out= 10.26 km)

W289BX.P CH 289 D  
Lat= 36 20 30.0, Lng= 78 22 14.9  
0.013 kW 109.1 m HAAT, 240.1 m COR  
Prot.= 60 dBu, Intef.= 100 dBu

WDCG CH 286 C1 73.215 N BLH20080310ADT  
Lat= 35 42 50.0, Lng= 78 49 04.0  
73.0 kW 339 m HAAT, 443 m COR  
Prot.= 60 dBu, Intef.= 100 dBu

