

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Wilmington20d0.2kwinceltiat40f, Model: Longley-Rice

Start: 2021.12.10 07:07:29

Study created: 2021.12.10 07:07:29

Study build station data: LMS TV 2021-12-10

Proposal: W21DF-D D20 LD CP WILMINGTON, NC

Facility ID: 185717

Station data: User record

Record ID: 1412

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WUNC-TV	D19	LD	LIC	CHAPEL HILL, NC	BLANK00000115730	174.3 km
No	WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK00000146857	263.8
No	WYDO	D19	DT	LIC	GREENVILLE, NC	BLANK00000129688	133.2
No	DDW50EQ-D	D19	LD	APP	LUMBERTON, NC	BLANK00000086353	158.6
No	DW19CA	N19-	TX	APP	LUMBERTON, NC	BLTT19961112JH	116.7
No	W19EU-D	D19	LD	CP	WILMINGTON, NC	BLANK00000072250	24.3
No	WCSC-TV	D19	DT	LIC	CHARLESTON, SC	BLANK00000054856	193.9
No	W29EC-D	D19	LD	APP	FLORENCE, SC	BLANK00000159893	142.2
No	W20EW-D	D20	LD	CP	AUGUSTA, GA	BLANK00000155481	383.5
No	WHDS-LD	D20	LD	LIC	SAVANNAH, GA	BLANK00000101192	358.4
No	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK00000093577	416.7
No	WUNC-TV	D20	DT	LIC	CHAPEL HILL, NC	BLANK00000138116	212.4
No	WDMC-LD	D20	LD	LIC	CHARLOTTE, NC	BLANK00000164588	260.1
No	W20EM-D	D20	LD	CP	NEW BERN, NC	BLANK00000072072	147.2
No	WCBD-TV	D20	DT	LIC	CHARLESTON, SC	BLANK00000081288	192.5
No	W20DH-D	D20	LD	CP	FLORENCE, SC	BNPDTL20100409ABW	139.8
No	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK00000063970	459.6
No	WGNT	D20	DT	LIC	PORTSMOUTH, VA	BLANK00000118341	334.4
No	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK00000113063	259.9
No	WWIW-LD	D21	LD	CP	RALEIGH, NC	BLANK00000153621	189.6
No	WNCR-LD	D21	LD	LIC	TARBORO, NC	BLANK00000055079	200.3

No	WUNJ-TV	D21	DT	LIC	WILMINGTON, NC	BLANK0000126699	21.4
No	DW22CJ	N22-	TX	APP	JACKSONVILLE, NC	BLTT19990629JD	98.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D20  
Mask: Stringent  
Latitude: 34 7 54.00 N (NAD83)  
Longitude: 78 11 16.00 W  
Height AMSL: 29.0 m (Adjusted based on actual ground elevation calculation)  
HAAT: 0.0 m  
Peak ERP: 0.200 kW  
Antenna: ELTI-ELTI UHF Panel (ID 1008435) 40.0 deg  
Elev Pattn: Generic

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.058 kW	12.5 m	9.1 km
45.0	0.191	13.0	12.1
90.0	0.027	21.3	7.5
135.0	0.000	14.2	2.6
180.0	0.001	18.3	3.7
225.0	0.000	11.8	2.6
270.0	0.001	10.1	3.4
315.0	0.000	9.6	3.0

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: 14 m

Distance to Canadian border: 916.0 km

Distance to Mexican border: 2013.2 km

Conditions at FCC monitoring station: Laurel MD

Bearing: 11.9 degrees    Distance: 572.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 293.5 degrees    Distance: 2476.0 km

No land mobile station failures found

Study cell size: 1.00 km  
Profile point spacing: 0.10 km

Maximum new IX to full-service and Class A: 0.50%  
Maximum new IX to LPTV: 2.00%

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Interference to proposal scenario 1  
86.27% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W21DF-D	D20	LD	CP	WILMINGTON, NC		
Undesireds:	WUNC-TV	D20	DT	LIC	CHAPEL HILL, NC	BLANK0000138116	212.4 km
	WCBD-TV	D20	DT	LIC	CHARLESTON, SC	BLANK0000081288	192.5
	WUNJ-TV	D21	DT	LIC	WILMINGTON, NC	BLANK0000126699	21.4

Service area	Terrain-limited	IX-free	Percent IX
130.6      2,797	130.6      2,797	51.4      384	60.68      86.27

Undesired	Total IX	Unique IX	Prcnt Unique IX
WUNC-TV D20 DT LIC      3.0      0      0.0      0			0.00      0.00
WCBD-TV D20 DT LIC      6.1      176      0.0      0			0.00      0.00
WUNJ-TV D21 DT LIC      79.3      2,413      70.3      2,237			53.78      79.98