

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Wilmington20d0.5kwincsam160at90f, Model: Longley-Rice

Start: 2021.12.13 05:12:37

Study created: 2021.12.13 05:12:37

Study build station data: LMS TV 2021-12-13

Proposal: W21DF-D D20 LD APP WILMINGTON, NC

Facility ID: 185717

Station data: User record

Record ID: 1415

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	BLANK0000115730	174.3 km
No	WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK0000146857	263.8
No	WYDO	D19	DT	LIC	GREENVILLE, NC	BLANK0000129688	133.2
No	DDW50EQ-D	D19	LD	APP	LUMBERTON, NC	BLANK0000086353	158.6
No	DW19CA	N19-	TX	APP	LUMBERTON, NC	BLTT19961112JH	116.7
No	W19EU-D	D19	LD	CP	WILMINGTON, NC	BLANK0000072250	24.3
No	WCSC-TV	D19	DT	LIC	CHARLESTON, SC	BLANK0000054856	193.9
No	W29EC-D	D19	LD	APP	FLORENCE, SC	BLANK0000159893	142.2
No	W20EW-D	D20	LD	CP	AUGUSTA, GA	BLANK0000155481	383.5
No	WHDS-LD	D20	LD	LIC	SAVANNAH, GA	BLANK0000101192	358.4
No	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK0000093577	416.7
No	WUNC-TV	D20	DT	LIC	CHAPEL HILL, NC	BLANK0000138116	212.4
No	WDMC-LD	D20	LD	LIC	CHARLOTTE, NC	BLANK0000164588	260.1
No	W20EM-D	D20	LD	CP	NEW BERN, NC	BLANK0000072072	147.2
No	WCBD-TV	D20	DT	LIC	CHARLESTON, SC	BLANK0000081288	192.5
No	W20DH-D	D20	LD	CP	FLORENCE, SC	BNPDTL20100409ABW	139.8
No	WHSV-TV	D20	DT	LIC	Massanutten, VA	BLANK0000063970	459.6
No	WGNT	D20	DT	LIC	PORTSMOUTH, VA	BLANK0000118341	334.4
No	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	259.9
No	WWIW-LD	D21	LD	CP	RALEIGH, NC	BLANK0000153621	189.6
No	WNCR-LD	D21	LD	LIC	TARBORO, NC	BLANK0000055079	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: 0.500 kW
Antenna: SAM-SAM-160 (ID 1005900) 90.0 deg
Elev Pattnr: Generic

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	12.5 m	2.8 km
45.0	0.113	13.0	10.7
90.0	0.500	21.3	15.3
135.0	0.113	14.2	10.7
180.0	0.000	18.3	2.8
225.0	0.005	11.8	4.9
270.0	0.010	10.1	5.9
315.0	0.005	9.6	4.9

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
62.15% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W21DF-D	D20	LD	APP	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
217.3 5,207	217.3 5,207	77.8 1,971	64.19 62.15

Undesired	Total IX	Unique IX	Prcnt Unique IX
WUNC-TV D20 DT LIC 1.0 0 0.0 0 0.00 0.00			
WCBD-TV D20 DT LIC 12.1 1,315 0.0 0 0.00 0.00			
WUNJ-TV D21 DT LIC 139.5 3,236 126.4 1,921 58.16 36.89			