

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Wilm20d15kwIncF, Model: Longley-Rice

Start: 2023.11.07 09:20:01

Study created: 2023.11.07 09:20:01

Study build station data: LMS TV 2023-11-06

Proposal: W20EY-D D20 LD APP WILMINGTON, NC

Facility ID: 185717

Station data: User record

Record ID: 1923

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	173.3 km
No	WYDO	D19	DT	LIC	GREENVILLE, NC	BLANK0000129688	115.7
No	DDW50EQ-D	D19	LD	APP	LUMBERTON, NC	BLANK0000086353	166.4
No	DW19CA	N19-	TX	APP	LUMBERTON, NC	BLTT19961112JH	129.3
No	W19EU-D	D19	LD	LIC	WILMINGTON, NC	BLANK0000195949	34.8
Yes	W19EU-D	D19	LD	APP	WILMINGTON, NC	BLANK0000202088	34.8
No	WCSC-TV	D19	DT	LIC	CHARLESTON, SC	BLANK0000184937	215.2
No	W19FC-D	D19	LD	LIC	FLORENCE, SC	BLANK0000177716	164.2
No	W19FC-D	D19	LD	CP	FLORENCE, SC	BLANK0000202792	128.3
No	W20EW-D	D20	LD	LIC	AUGUSTA, GA	BLANK0000218370	378.8
No	WHDS-LD	D20	LD	LIC	SAVANNAH, GA	BLANK0000101192	380.1
No	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK0000093577	436.3
Yes	WUNC-TV	D20	DT	LIC	CHAPEL HILL, NC	BLANK0000216258	217.0
No	WDMC-LD	D20	LD	LIC	CHARLOTTE, NC	BLANK0000164588	277.1
No	W20EM-D	D20	LD	LIC	NEW BERN, NC	BLANK0000195978	122.4
No	WCBF-TV	D20	DT	LIC	CHARLESTON, SC	BLANK0000184909	213.8
No	WHSV-TV	D20	DT	LIC	HARRISONBURG, VA	BLANK0000063970	458.5
No	WGNT	D20	DT	LIC	PORTSMOUTH, VA	BLANK0000118341	318.8

No	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	276.0
No	WWIW-LD	D21	LD	LIC	RALEIGH, NC	BLANK0000178152	189.9
No	WNCR-LD	D21	LD	LIC	TARBORO, NC	BLANK0000055079	190.9
No	WUNJ-TV	D21	DT	LIC	WILMINGTON, NC	BLANK0000126699	30.0
No	DW22CJ	N22-	TX	APP	JACKSONVILLE, NC	BLTT19990629JD	78.7

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: Full Service
 Latitude: 34 11 27.30 N (NAD83)
 Longitude: 77 56 31.20 W
 Height AMSL: 74.4 m
 HAAT: 0.0 m
 Peak ERP: 15.0 kW
 Antenna: Omnidirectional
 Elev Pattn: Generic
 Elec Tilt: 1.00

49.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	67.1 m	39.9 km
45.0	15.0	62.9	39.3
90.0	15.0	70.8	40.5
135.0	15.0	71.2	40.6
180.0	15.0	73.8	41.0
225.0	15.0	67.3	40.0
270.0	15.0	64.3	39.5
315.0	15.0	68.2	40.1

Database HAAT does not agree with computed HAAT
 Database HAAT: 0 m Computed HAAT: 68 m

Distance to Canadian border: 918.8 km

Distance to Mexican border: 2036.6 km

Conditions at FCC monitoring station: Laurel MD

Bearing: 9.9 degrees Distance: 561.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 293.3 degrees Distance: 2494.1 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%

Interference to BLANK0000202088 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W19EU-D	D19	LD	APP	WILMINGTON, NC	BLANK0000202088	
Undesireds:	W20EY-D	D20	LD	APP	WILMINGTON, NC		34.8 km
	WQDH-LD	D18	LD	LIC	WILMINGTON, NC	BLANK0000083869	36.2
	WYDO	D19	DT	LIC	GREENVILLE, NC	BLANK0000129688	123.0
	W19FC-D	D19	LD	LIC	FLORENCE, SC	BLANK0000177716	132.3
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
1002.5	36,034	1002.5	36,034	829.0	19,859	829.0 19,859	0.00 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
W20EY-D D20 LD APP				9.1 772	0.0 0		
WQDH-LD D18 LD LIC				3.0 86	0.0 0		

WYDO D19 DT LIC 173.4 16,175 170.4 16,089 164.3 15,403

Interference to BLANK0000216258 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUNC-TV	D20	DT	LIC	CHAPEL HILL, NC	BLANK0000216258	
Undesireds:	W20EY-D	D20	LD	APP	WILMINGTON, NC		217.0 km
	WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK00000146857	156.3
	WYDO	D19	DT	LIC	GREENVILLE, NC	BLANK00000129688	186.1
	WYMT-TV	D20	DT	CP	HAZARD, KY	BLANK00000185947	387.7
	WUNF-TV	D20	DD	LIC	ASHEVILLE, NC	BLANK00000093577	314.2
	WCBF-TV	D20	DT	LIC	CHARLESTON, SC	BLANK00000184909	328.8
	WHSV-TV	D20	DT	LIC	HARRISONBURG, VA	BLANK00000063970	255.9
	WGNT	D20	DT	LIC	PORTSMOUTH, VA	BLANK00000118341	260.5
	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK00000113063	142.1
	WWCW	D21	DT	LIC	LYNCHBURG, VA	BLANK00000199504	166.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
38688.1 4,183,383	38254.5 4,159,675	36437.1 4,036,049	36436.1 4,036,049	0.00 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W20EY-D D20 LD APP 4.0 37		1.0 0	
WSOC-TV D19 DT LIC 398.5 24,275 7.0 321		7.0 321	
WYDO D19 DT LIC 43.7 4,884 29.8 3,349		29.8 3,349	
WUNF-TV D20 DD LIC 804.6 81,443 283.1 50,383		281.1 50,383	
WCBF-TV D20 DT LIC 374.3 16,062 190.9 4,693		190.9 4,693	
WHSV-TV D20 DT LIC 38.2 910 15.1 237		15.1 237	
WGNT D20 DT LIC 555.2 23,983 517.2 21,770		517.2 21,770	
WUNG-TV D21 DT LIC 639.5 37,853 106.5 5,150		106.5 5,150	
WWCW D21 DT LIC 9.0 244 7.0 156		7.0 156	

Interference to proposal scenario 1
5.11% interference received

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired: W20EY-D D20 LD APP WILMINGTON, NC

Undesireds: W19EU-D D19 LD LIC WILMINGTON, NC BLANK0000195949 34.8 km
WUNJ-TV D21 DT LIC WILMINGTON, NC BLANK0000126699 30.0

Service area	Terrain-limited	IX-free	Percent IX
5062.1 307,008	5062.1 307,008	4337.7 291,312	14.31 5.11

Undesired	Total IX	Unique IX	Prcnt Unique IX
W19EU-D D19 LD LIC 1.0	32 0.0	0	0.00 0.00
WUNJ-TV D21 DT LIC 724.4	15,696 723.4	15,664	14.29 5.10

Interference to proposal scenario 2
**MX: 5.34% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	W20EY-D	D20	LD	APP	WILMINGTON, NC		
Undesireds:	W19EU-D	D19	LD	APP	WILMINGTON, NC	BLANK0000202088	34.8 km
	WUNJ-TV	D21	DT	LIC	WILMINGTON, NC	BLANK0000126699	30.0

Service area	Terrain-limited	IX-free	Percent IX
5062.1 307,008	5062.1 307,008	4308.5 290,601	14.89 5.34

Undesired	Total IX	Unique IX	Prcnt Unique IX
W19EU-D D19 LD APP 58.5	1,299 29.2	711	0.58 0.23
WUNJ-TV D21 DT LIC 724.4	15,696 695.2	15,108	13.73 4.92