

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: aWilm17d500wELTI250T, Model: Longley-Rice

Start: 2023.04.05 08:24:55

Study created: 2023.04.05 08:24:55

Study build station data: LMS TV 2023-04-02

Proposal: W17DO-D D17 LD APP WILMINGTON, NC

Facility ID: 185715

Station data: User record

Record ID: 1339

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
Yes	WPXU-TV	D16	DT	LIC	JACKSONVILLE, NC	BLANK0000129487	53.6 km
No	WDRH-LD	D16-	LD	LIC	Raleigh, NC	BLANK0000193085	189.9
No	WJPM-TV	D16	DT	LIC	FLORENCE, SC	BLANK0000138174	165.8
No	WGAT-LD	D17	LD	CP	AUGUSTA, GA	BLANK0000189899	370.6
No	WCEE-LD	D17	LD	LIC	CHARLOTTE, NC	BLANK0000180361	277.1
No	W17EE-D	D17	LD	LIC	LILESVILLE/WADESBORO, NC	BLANK0000177549	205.2
No	W17CT-D	D17	LD	LIC	MANTEO, NC	BLDTL20150311AAP	279.6
No	WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK0000143682	173.3
No	WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK0000184941	213.8
No	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000190316	447.0
No	WKTD-CD	D17	DC	LIC	PORTSMOUTH, VA	BLTTA20050316ACC	319.7
No	DWXOB-LP	D17z	LD	APP	RICHMOND, VA	BLTTA20020809AAN	382.5
No	DWXOB-LP	N17z	TX	APP	RICHMOND, VA	BPTTL20150303ACH	370.5
No	WVVA	D17	DT	LIC	BLUEFIELD, WV	BLANK0000087309	448.8
No	WVVA	D17	DT	CP	BLUEFIELD, WV	BLANK0000127491	448.8
No	W18EV-D	D18	LD	LIC	NEW BERN, NC	BLANK0000195981	121.2
No	WLFL	D18	DT	LIC	RALEIGH, NC	BLANK0000125309	173.3
No	WQDH-LD	D18	LD	LIC	WILMINGTON, NC	BLANK0000083869	1.5

No	W18FC-D	D18	LD	APP	FLORENCE, SC	BLANK0000185726	164.2
No	W18FC-D	D18	LD	LIC	FLORENCE, SC	BLANK0000177715	164.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17
Mask: Stringent
Latitude: 34 11 27.30 N (NAD83)
Longitude: 77 56 31.20 W
Height AMSL: 23.8 m (Adjusted based on actual ground elevation calculation)
HAAT: 0.0 m
Peak ERP: 0.500 kW
Antenna: ELTI-ELTI UHF Panel (ID 1008435) 250.0 deg
Elev Pattn: Generic

49.0 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.003 kW	16.5 m	4.4 km
45.0	0.001	12.3	3.6
90.0	0.000	20.2	2.6
135.0	0.002	20.5	4.1
180.0	0.012	23.2	6.4
225.0	0.301	16.6	13.8
270.0	0.362	13.7	14.5
315.0	0.017	17.5	6.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 18 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

Proposal is not within the Offshore Radio Service protected area

Study cell size: 1.00 km

Profile point spacing: 1.00 km

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

Maximum new IX to LPTV: 2.00%

Interference to BLANK0000129487 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPXU-TV	D16	DT	LIC	JACKSONVILLE, NC	BLANK0000129487	
Undesireds:	W17DO-D	D17	LD	APP	WILMINGTON, NC		53.6 km
	WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK0000143683	161.6
	WXII-TV	D16	DT	LIC	WINSTON-SALEM, NC	BLANK0000157823	334.6
	WTKR	D16	DT	LIC	NORFOLK, VA	BLANK0000118339	272.1
	WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK0000143682	161.6
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
19416.7	700,304	19416.7	700,304	19408.7	700,304	19402.6 700,304	0.03 0.00
Undesired				Total IX	Unique IX, before	Unique IX, after	
W17DO-D D17 LD APP				6.1 0		6.1 0	
WRAZ D15 DT LIC				2.0 0	0.0 0	0.0 0	
WXII-TV D16 DT LIC				1.0 0	1.0 0	1.0 0	

WTKR D16 DT LIC	1.0	0	0.0	0	0.0	0
WRAL-TV D17 DT LIC	7.0	0	4.0	0	4.0	0

Interference to proposal scenario 1
63.88% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W17DO-D	D17	LD	APP	WILMINGTON, NC		
Undesireds:	WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK00000143682	173.3 km
	WQDH-LD	D18	LD	LIC	WILMINGTON, NC	BLANK00000083869	1.5

Service area	Terrain-limited	IX-free	Percent IX
210.1 37,516	210.1 37,516	118.8 13,551	43.43 63.88

Undesired	Total IX	Unique IX	Prcnt Unique IX
WRAL-TV D17 DT LIC	6.0 1,419	0.0 0	0.00 0.00
WQDH-LD D18 LD LIC	91.2 23,965	85.2 22,546	40.56 60.10