

INTERFERENCE ANALYSIS FOR LICENSED WILT-LD, WILMINGTON, NC, CHANNEL 24, WITH RESPECT TO WWAY

tvstudy v2.2.5 (4uoc83)

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

Study build station data: LMS TV 2018-04-01

Proposal: WILT_L D24 LD LIC WILMINGTON, NC
File number: WILT_L
Facility ID: 182320
Station data: User record
Record ID: 2529
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W22CJ	N22-	TX	LIC	JACKSONVILLE, NC	BLTT19990629JD	88.6 km
No	WARZ-CD	D23	DC	APP	SMITHFIELD-SELMA, NC	BLANK0000034835	161.9
No	WECT	D23	DT	CP	WILMINGTON, NC	BLANK0000034156	20.3
Yes	W23EL-D	D23	LD	CP	WILMINGTON, NC	BDISDTL20120831ABX	34.3
No	WLDW-LD	D23	LD	LIC	MYRTLE BEACH, SC	BLANK0000007794	172.1
No	WLDW-LD	D23	LD	CP	MYRTLE BEACH, SC	BLANK0000036406	168.0
No	WCNC-TV	D24	DT	CP	CHARLOTTE, NC	BLANK0000034763	323.5
No	W24CP-D	D24	LD	LIC	DURHAM, NC	BLANK0000004266	224.9
No	WUBX-CD	D24	DC	CP	DURHAM, ETC., NC	BLANK0000034665	222.6
No	W24AY-D	D24	LD	LIC	LILESVILLE/WADESBORO, NC	BLDTT20111212AFX	207.8
No	W24EC-D	D24	LD	LIC	MANTEO, NC	BLDTL20150311AAN	288.6
No	NEW	D24	LD	APP	NEW BERN, NC	BNPDTL20100209AAW	127.6
Yes	WWAY	D24	DT	CP	WILMINGTON, NC	BLANK0000026634	20.3
No	WITV	D24	DT	CP	CHARLESTON, SC	BLANK0000034488	206.5
No	WRLH-TV	D24	DT	CP	RICHMOND, VA	BLANK0000025126	381.0
No	WRLH-TV	D24	DT	APP	RICHMOND, VA	BLANK0000034147	381.0
No	WUNK-TV	D25	DT	CP	GREENVILLE, NC	BLANK0000025767	165.2
No	W25EU-D	D25	LD	CP	LUMBERTON, NC	BNPDTL20100210AAS	89.7
No	WFEJ-LD	D25	LD	CP	NEW BERN, NC	BNPDTL20100209AAX	127.6
No	WCIV	D25	DT	CP	CHARLESTON, SC	BLANK0000027285	205.1
No	WCIV	D25	DT	APP	CHARLESTON, SC	BLANK0000034046	205.1

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24

Mask: Full Service
Latitude: 34 5 52.30 N (NAD83)
Longitude: 77 58 17.20 W
Height AMSL: 139.7 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: ERI-AL8W-24 (ID 120657) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 1.75

49.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	8.62 kW	138.2 m	44.6 km
45.0	14.8	134.3	47.0
90.0	13.6	138.0	46.8
135.0	13.2	138.7	46.7
180.0	14.9	134.8	47.1
225.0	7.75	130.0	43.5
270.0	1.37	127.0	34.4
315.0	1.83	134.6	36.4

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 134 m

Distance to Canadian border: 927.2 km

Distance to Mexican border: 2030.3 km

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Conditions at FCC monitoring station: Laurel MD
Bearing: 10.0 degrees Distance: 572.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 293.5 degrees Distance: 2495.8 km

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 BLANK0000026634 CP scenario 1

****IX: 5.22% interference caused**

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWAY	D24	DT	CP	WILMINGTON, NC	BLANK0000026634	
Undesireds:	WILT_L	D24	LD	LIC	WILMINGTON, NC	WILT_L	20.3 km
	WARZ-CD	D23	DC	CP	SMITHFIELD-SELMA, NC	BLANK0000026452	174.6
	WECT	D23	DT	CP	WILMINGTON, NC	BLANK0000034156	0.0
	WCNC-TV	D24	DT	CP	CHARLOTTE, NC	BLANK0000034763	304.1
	WUBX-CD	D24	DC	CP	DURHAM, ETC., NC	BLANK0000034665	213.0
	WITV	D24	DT	CP	CHARLESTON, SC	BLANK0000034488	193.9
	WRLH-TV	D24	DT	CP	RICHMOND, VA	BLANK0000025126	379.5
	WUNK-TV	D25	DT	CP	GREENVILLE, NC	BLANK0000025767	166.8
	WCIV	D25	DT	CP	CHARLESTON, SC	BLANK0000027285	192.5

	Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
	39395.8	1,207,763	39395.8	1,207,763	39115.8	1,204,543	37477.3	1,141,716	4.19 5.22

Undesired		Total IX	Unique IX, before	Unique IX, after
WILT_L D24 LD LIC	1639.5	62,827		1638.5 62,827
WCNC-TV D24 DT CP	1.0	0	1.0 0	1.0 0
WITV D24 DT CP	150.2	0	150.2 0	150.2 0
WUNK-TV D25 DT CP	128.8	3,220	128.8 3,220	127.8 3,220
