

INTERFERENCE ANALYSIS FOR PROPOSED WILT-LD, WILMINGTON, NC, CHANNEL 33, DISPLACEMENT FACILITY

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: wilt33plb, Model: Longley-Rice

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

Proposal: WILT33P1 D33 LD APP WILMINGTON, NC
File number: wilt33pl
Facility ID: 182320
Station data: User record
Record ID: 2401
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W19CA	N19-	TX	LIC	LUMBERTON, NC	BLTT19961112JH	133.7 km
No	WDRN-LD	D32	LD	APP	FAYETTEVILLE, NC	BLANK0000035523	139.2
No	WRPX-TV	D32	DT	CP	ROCKY MOUNT, NC	BLANK0000034408	223.8
No	WMBF-TV	D32	DT	LIC	MYRTLE BEACH, SC	BLCDT20091105AAP	109.7
Yes	W33DM-D	D33	LD	CP	JACKSONVILLE, NC	BDCCDTL20110722AEM	88.6
No	W33DI-D	D33	LD	CP	LUMBERTON, NC	BNPDTL20100210AAT	117.0
No	WLPD-CD	D33	DC	CP	LUMBERTON-PEMBROKE, NC	BLANK0000036104	133.7
No	WUNL-TV	D33	DT	CP	WINSTON-SALEM, NC	BLANK0000034443	334.0
No	WRLK-TV	D33	DT	CP	COLUMBIA, SC	BLANK0000025032	272.9
No	W33DN-D	D33	LD	CP	FLORENCE, SC	BLANK0000036212	162.5
No	WNGS-LD	D33	LD	CP	GREENVILLE, SC	BLANK0000036167	417.2
No	WQHI-LD	D33	LD	CP	MYRTLE BEACH, SC	BNPDTL20100804AAD	104.4
No	W33AD	N33	TX	LIC	CONCORD, VA	BLTTL19821108IO	372.0
No	WTVZ-TV	D33	DT	LIC	NORFOLK, VA	BLCDT20090602ABA	329.3
No	W34EL-D	D34	LD	CP	GREENVILLE, NC	BNPDTL20100809CHS	204.5
No	WPEM-LD	D34	LD	APP	LUMBERTON, NC	BLANK0000030452	117.0
No	WYBE-CD	D34	DC	CP	PINEHURST, NC	BLANK0000027048	177.9
No	WITN-TV	D34	DT	CP	WASHINGTON, NC	BLANK0000034101	150.5
No	WGWG	D34	DT	LIC	CHARLESTON, SC	BLCDT20060630ADJ	206.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D33

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-33 0.0 deg

Elev Pattn: Generic

Elec Tilt: 1.75

50.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	8.62 kW	138.2 m	43.6 km
45.0	14.8	134.3	46.0
90.0	13.6	138.0	45.9
135.0	13.2	138.7	45.8
180.0	14.9	134.8	46.1
225.0	7.75	130.0	42.5
270.0	1.37	127.0	33.4
315.0	1.83	134.6	35.4

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

Conditions at FCC monitoring station: Laurel MD

Bearing: 10.0 degrees Distance: 572.5 km

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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 BDCCDTL20110722AEM CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance	
Desired:	W33DM-D	D33	LD	CP	JACKSONVILLE, NC	BDCCDTL20110722AEM		
Undesireds:	WILT33P1	D33	LD	APP	WILMINGTON, NC	wilt33p1	88.6 km	
	Service area			Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	4001.3	198,788		4001.3	198,788	4001.3	198,788	3923.8 196,520 1.94 1.14
Undesired				Total IX		Unique IX, before	Unique IX, after	
WILT33P1 D33 LD APP			77.5	2,268		77.5	2,268	

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WILT33P1	D33	LD	APP	WILMINGTON, NC	wilt33p1	
Undesireds:	W33DM-D	D33	LD	CP	JACKSONVILLE, NC	BDCCDTL20110722AEM	88.6 km
	Service area			Terrain-limited		IX-free	Percent IX
	5705.2	304,320		5705.2	304,320	5704.2	304,320 0.02 0.00
Undesired				Total IX		Unique IX	Prcnt Unique IX
W33DM-D D33 LD CP			1.0	0	1.0	0	0.02 0.00
