

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Wilm22d15kwIncT, Model: Longley-Rice

Start: 2023.11.06 09:03:32

Study created: 2023.11.06 09:03:32

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

Proposal: W22FN-D D22 LD APP WILMINGTON, NC

Facility ID: 185716

Station data: User record

Record ID: 1921

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	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	276.0 km
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	WJCL	D22	DT	LIC	SAVANNAH, GA	BLANK0000029019	395.1
Yes	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK0000125505	174.6
No	W22FC-D	D22	LD	LIC	GREENVILLE, NC	BLANK0000195977	167.3
No	DW22CJ	N22-	TX	APP	JACKSONVILLE, NC	BLTT19990629JD	78.7
No	W22EN-D	D22	LD	LIC	MANTEO, NC	BLDTL20150311AAO	279.6
No	WACH	D22	DT	LIC	COLUMBIA, SC	BLANK0000093772	259.7
No	WVEB-LD	D22	LD	LIC	FLORENCE, SC	BLANK0000083837	290.6
No	WAZS-LD	D22	LD	CP	NORTH CHARLESTON, SC	BLANK0000210572	244.4
No	WSPA-TV	D22	LD	LIC	SPARTANBURG, SC	BLANK0000066995	424.5
No	WCVE-TV	D22	DT	LIC	RICHMOND, VA	BLANK0000112529	370.5
No	WNGT-CD	D23	DC	LIC	RALEIGH, NC	BLANK0000143970	173.7
No	WECT	D23	DT	LIC	WILMINGTON, NC	BLANK0000218992	23.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D22  
Mask: Stringent  
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

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	67.1 m	39.7 km
45.0	15.0	62.9	39.0
90.0	15.0	70.8	40.3
135.0	15.0	71.2	40.4
180.0	15.0	73.8	40.8
225.0	15.0	67.3	39.7
270.0	15.0	64.3	39.3
315.0	15.0	68.2	39.9

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

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 BLANK0000125505 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK0000125505	
Undesireds:	W22FN-D	D22	LD	APP	WILMINGTON, NC		174.6 km
	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	148.8
	WUNJ-TV	D21	DT	LIC	WILMINGTON, NC	BLANK0000126699	148.9
	WACH	D22	DT	LIC	COLUMBIA, SC	BLANK0000093772	225.0
	WCVE-TV	D22	DT	LIC	RICHMOND, VA	BLANK0000112529	254.1
	WBTW	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	200.7
	WNGT-CD	D23	DC	LIC	RALEIGH, NC	BLANK0000143970	44.0
	WECT	D23	DT	LIC	WILMINGTON, NC	BLANK0000218992	169.5

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
37849.0    3,765,231	37369.4    3,741,870	36232.3    3,701,621	36220.3    3,701,514	0.03    0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FN-D D22 LD APP    73.2	380	12.0    107	
WUNG-TV D21 DT LIC    287.1	21,102	232.3    16,623	
WUNJ-TV D21 DT LIC    259.0	2,097	126.5    1,051	
WACH D22 DT LIC    120.0	5,895	88.1    1,411	
WCVE-TV D22 DT LIC    392.6	12,075	387.6    9,710	
WBTW D23 DT LIC    31.8	1,570	2.0    38	
WNGT-CD D23 DC LIC    107.2	4,382	106.2    4,318	

WECT D23 DT LIC	136.6	1,110	4.0	64	4.0	64
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Interference to proposal scenario 1  
7.44% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W22FN-D	D22	LD	APP	WILMINGTON, NC		
Undesireds:	WUNJ-TV	D21	DT	LIC	WILMINGTON, NC	BLANK00000126699	30.0 km
	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK00000125505	174.6
	WECT	D23	DT	LIC	WILMINGTON, NC	BLANK00000218992	23.5

Service area	Terrain-limited	IX-free	Percent IX
5007.2      306,123	5007.2      306,123	3840.1      283,360	23.31      7.44

Undesired	Total IX	Unique IX	Prcnt Unique IX
WUNJ-TV D21 DT LIC      417.0	8,526      74.5	1,108      1.49	0.36
WUVC-DT D22 DT LIC      13.1	283      0.0	0      0.00	0.00
WECT D23 DT LIC      1092.5	21,655      750.0	14,237      14.98	4.65