

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Wilm22d15kwT, Model: Longley-Rice

Start: 2023.03.15 13:16:12

Study created: 2023.03.15 13:16:11

Study build station data: LMS TV 2023-03-14

Proposal: W22FN-D D22 LD APP WILMINGTON, NC

Facility ID: 185716

Station data: User record

Record ID: 1234

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
Yes	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
Yes	WECT	D23	DT	LIC	WILMINGTON, NC	BLANK0000111584	23.5
Yes	WECT	D23	DT	CP	WILMINGTON, NC	BLANK0000207207	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

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: 1.00 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 BLANK0000126699 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUNJ-TV	D21	DT	LIC	WILMINGTON, NC	BLANK0000126699	
Undesireds:	W22FN-D	D22	LD	APP	WILMINGTON, NC		30.0 km
	WUNG-TV	D21	DT	LIC	CONCORD, NC	BLANK0000113063	246.0
	WWCW	D21	DT	LIC	LYNCHBURG, VA	BLANK0000199504	356.6
	WVBT	D21	DT	LIC	VIRGINIA BEACH, VA	BLANK0000125111	318.2
	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK0000125505	148.9
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	31033.1    1,117,952		31033.1    1,117,952		30822.3    1,098,112	30821.3    1,096,953	0.00    0.11
Undesired				Total IX	Unique IX, before	Unique IX, after	
W22FN-D D22 LD APP		1.0		1,159		1.0    1,159	
WUNG-TV D21 DT LIC		3.0		1,837	0.0    0	0.0    0	
WWCW D21 DT LIC		1.0		0	0.0    0	0.0    0	
WVBT D21 DT LIC		1.0		0	0.0    0	0.0    0	
WUVC-DT D22 DT LIC		209.8		19,840	206.8    18,003	206.8    18,003	

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 Interference to BLANK0000125505 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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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	BLANK0000111584	169.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
37849.0	3,765,231	37382.9	3,745,799	35846.1	3,697,312	35831.1	3,697,182	0.04	0.00

Undesired		Total IX		Unique IX, before		Unique IX, after	
W22FN-D	D22 LD APP	85.2	587			15.0	130
WUNG-TV	D21 DT LIC	461.9	21,166	373.3	16,832	373.3	16,832
WUNJ-TV	D21 DT LIC	253.0	1,957	137.6	1,065	111.5	1,023
WACH	D22 DT LIC	176.9	5,460	134.0	3,849	133.0	3,849
WCVE-TV	D22 DT LIC	558.7	16,757	547.6	15,673	546.5	15,541
WBTW	D23 DT LIC	56.7	3,068	5.0	256	5.0	256
WNGT-CD	D23 DC LIC	131.3	5,567	121.2	4,724	121.2	4,724
WECT	D23 DT LIC	119.5	911	4.0	19	4.0	19

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Interference to BLANK0000125505 LIC scenario 2

	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	CP	WILMINGTON, NC	BLANK0000207207	169.5

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
37849.0	3,765,231	37382.9	3,745,799	35846.1	3,697,312	35831.1	3,697,182	0.04 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
W22FN-D D22 LD APP	85.2	587		15.0	130	
WUNG-TV D21 DT LIC	461.9	21,166	373.3	16,832	373.3	16,832
WUNJ-TV D21 DT LIC	253.0	1,957	125.5	1,053	104.4	1,011
WACH D22 DT LIC	176.9	5,460	134.0	3,849	133.0	3,849
WCVE-TV D22 DT LIC	558.7	16,757	547.6	15,673	546.5	15,541
WBTW D23 DT LIC	56.7	3,068	5.0	256	5.0	256
WNGT-CD D23 DC LIC	131.3	5,567	121.2	4,724	121.2	4,724
WECT D23 DT CP	131.5	923	4.0	19	4.0	19

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Interference to BLANK0000111584 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WECT	D23	DT	LIC	WILMINGTON, NC	BLANK0000111584	
Undesireds:	W22FN-D	D22	LD	APP	WILMINGTON, NC		23.5 km
	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK0000125505	169.5
	WBTW	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	306.2
	WNGT-CD	D23	DC	LIC	RALEIGH, NC	BLANK0000143970	174.6

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
37889.9	1,156,216	37889.9	1,156,216	37618.3	1,145,034	37617.3	1,143,394	0.00 0.14

Undesired		Total IX		Unique IX, before		Unique IX, after
W22FN-D D22 LD APP	1.0	1,640		1.0	1,640	
WUVC-DT D22 DT LIC	20.0	2,057	4.0	640	4.0	640
WBTW D23 DT LIC	4.0	1,137	1.0	40	1.0	40
WNGT-CD D23 DC LIC	263.6	9,405	250.6	9,085	250.6	9,085

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Interference to BLANK0000207207 CP scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
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Desired:        WECT            D23    DT    CP            WILMINGTON, NC            BLANK0000207207

Undesireds:	W22FN-D	D22	LD	APP	WILMINGTON, NC		23.5 km
	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK0000125505	169.5
	WBTV	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	306.2
	WNGT-CD	D23	DC	LIC	RALEIGH, NC	BLANK0000143970	174.6

Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
37797.8	1,149,023	37797.8	1,149,023	37497.3	1,136,317	37496.3	1,134,677	0.00	0.14

Undesired				Total IX	Unique IX, before	Unique IX, after	
W22FN-D	D22	LD	APP	1.0	1,640	1.0	1,640
WUVC-DT	D22	DT	LIC	24.0	2,459	2.0	557
WBTV	D23	DT	LIC	5.0	1,170	0.0	0
WNGT-CD	D23	DC	LIC	295.5	11,052	276.5	10,247

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Interference to proposal scenario 1  
7.60% 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	BLANK0000126699	30.0 km
	WUVC-DT	D22	DT	LIC	FAYETTEVILLE, NC	BLANK0000125505	174.6
	WECT	D23	DT	LIC	WILMINGTON, NC	BLANK0000111584	23.5

Service area		Terrain-limited		IX-free	Percent IX		
5007.2	306,123	5007.2	306,123	3843.9	282,850	23.23	7.60

Undesired				Total IX	Unique IX	Prcnt Unique IX			
WUNJ-TV	D21	DT	LIC	419.0	9,842	85.5	2,240	1.71	0.73
WUVC-DT	D22	DT	LIC	13.1	283	0.0	0	0.00	0.00
WECT	D23	DT	LIC	1077.8	21,033	744.3	13,431	14.86	4.39

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Interference to proposal scenario 2  
8.01% 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	CP	WILMINGTON, NC	BLANK00000207207	23.5

	Service area		Terrain-limited		IX-free		Percent IX
	5007.2	306,123	5007.2	306,123	3840.0	281,613	23.31 8.01

Undesired				Total IX		Unique IX	Prcnt Unique IX
WUNJ-TV D21 DT LIC		419.0		9,842	82.6	1,443	1.65 0.47
WUVC-DT D22 DT LIC		13.1		283	0.0	0	0.00 0.00
WECT D23 DT CP		1084.5		23,067	748.1	14,668	14.94 4.79