

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: aaWilm22d15kwBB290T, Model: Longley-Rice

Start: 2023.04.05 14:05:30

Study created: 2023.04.05 14:05:30

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

Proposal: W22FN-D D22 LD APP WILMINGTON, NC

Facility ID: 185716

Station data: User record

Record ID: 1341

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	BLANK0000111584	23.5
No	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: PSI-PSILP8BB (ID 20484) 290.0 deg
Elev Pattn: Generic
Elec Tilt: 1.00

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	7.78 kW	67.1 m	36.6 km
45.0	0.828	62.9	24.9
90.0	0.726	70.8	25.4
135.0	0.693	71.2	25.2
180.0	0.864	73.8	26.7
225.0	9.72	67.3	37.7
270.0	13.5	64.3	38.8
315.0	13.7	68.2	39.4

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%

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	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	35834.1 3,697,200	0.03 0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W22FN-D D22 LD APP 75.2	473	12.0	112
WUNG-TV D21 DT LIC 461.9	21,166	373.3	16,832
WUNJ-TV D21 DT LIC 253.0	1,957	137.6	1,065
WACH D22 DT LIC 176.9	5,460	134.0	3,849
WCVE-TV D22 DT LIC 558.7	16,757	547.6	15,673
WBTW D23 DT LIC 56.7	3,068	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

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	35834.1 3,697,200 0.03 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after
W22FN-D D22 LD APP	75.2			473			12.0 112
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	107.4 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

Interference to proposal scenario 1
8.27% 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
3284.8	273,894	3284.8	273,894	2465.0	251,234 24.96 8.27

Undesired		Total IX		Unique IX	Prcnt Unique IX
WUNJ-TV D21 DT LIC	486.9	6,246	169.3	2,290	5.15 0.84
WUVC-DT D22 DT LIC	11.1	250	0.0	0	0.00 0.00
WECT D23 DT LIC	650.5	20,370	332.8	16,414	10.13 5.99

Interference to proposal scenario 2
8.23% 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	CP	WILMINGTON, NC	BLANK0000207207	23.5

Service area		Terrain-limited		IX-free	Percent IX
3284.8	273,894	3284.8	273,894	2469.1	251,364 24.83 8.23

Undesired		Total IX		Unique IX	Prcnt Unique IX
WUNJ-TV D21 DT LIC	486.9	6,246	170.3	2,241	5.18 0.82
WUVC-DT D22 DT LIC	11.1	250	0.0	0	0.00 0.00
WECT D23 DT CP	645.4	20,289	328.8	16,284	10.01 5.95