

**Note:**  
**Study cell size: 1.00 km**  
**Profile point spacing: 0.10 km**

tvstudy v2.2.5 (4uoc83)  
Database: localhost, Study: WDFH\_Ch23\_4x3\_40deg\_Move\_Pre, Model: Longley-Rice  
Start: 2019.04.22 14:42:48

Study created: 2019.04.22 14:40:39

Study build station data: LMS TV 2019-04-21

Proposal: WDFH-LD D23 LD APP GREENVILLE, NC  
File number: WDFH\_Ch23\_4x3\_40deg\_Move  
Facility ID: 184527  
Station data: User record  
Record ID: 935  
Country: U.S.

Build options:  
Protect pre-transition records not on baseline channel  
Protect baseline records from LPTV

Search options:  
Baseline record excluded if station has CP  
All records for new LPTV stations excluded

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WIRP-LD	D22	LD	LIC	FAYETTEVILLE, NC	BLANK0000010748	204.6 km
No	WUVC-DT	D22	DT	CP	FAYETTEVILLE, NC	BLANK0000034450	175.9
No	W22FC-D	D22	LD	CP	GREENVILLE, NC	BLANK0000071778	82.5
No	W22CJ	N22-	TX	LIC	JACKSONVILLE, NC	BLTT19990629JD	49.1
No	W22EN-D	D22	LD	LIC	MANTEO, NC	BLDTL20150311AAO	156.0
No	WDQB-LD	D22	LD	CP	WILMINGTON, NC	BLANK0000007877	147.2
No	WDQB-LD	D22	LD	LIC	WILMINGTON, NC	BLDTT20150112ACS	134.0
No	WRIC-TV	D22	DT	LIC	PETERSBURG, VA	BLCDDT20090209ABZ	270.9
No	WCVE-TV	D22	DT	CP	RICHMOND, VA	BLANK0000034128	270.9
No	W23ED-D	D23	LD	CP	SALISBURY, MD	BLANK0000068887	390.0
No	WUNC-TV	D23	LD	CP	CHAPEL HILL, NC	BLANK0000053857	211.6
No	WBTW	D23	DT	LIC	CHARLOTTE, NC	BLCDDT19991025AEB	371.8
Yes	WUNK-TV	D23	DT	LIC	GREENVILLE, NC	BLDDT20100913ACD	66.9
No	WARZ-CD	D23	DC	CP	SMITHFIELD-SELMA, NC	BLANK0000034835	118.4
Yes	WECT	D23	DT	CP	WILMINGTON, NC	BLANK0000034156	147.2
No	W23EL-D	D23	LD	CP	WILMINGTON, NC	BDISDTL20120831ABX	135.1
No	WLDW-LD	D23	LD	LIC	MYRTLE BEACH, SC	BLANK0000007794	289.9
No	WLDW-LD	D23	LD	CP	MYRTLE BEACH, SC	BLANK0000036406	269.1
No	WAZS-LD	D23	LD	CP	NORTH CHARLESTON, SC	BLANK0000054749	367.6
No	WITD-CD	D23	DC	LIC	CHESAPEAKE, VA	BLANK0000001500	197.5
No	WDAW-LD	D23	LD	LIC	DALE CITY, VA	BLDTL20140528ACM	409.4
No	WMDV-LD	D23	LD	CP	DANVILLE, VA	BLANK0000054844	274.0
No	WTVR-TV	D23	DT	CP	RICHMOND, VA	BLANK0000034245	270.9
No	W24CP-D	D24	LD	LIC	DURHAM, NC	BLANK0000004266	204.6
No	WUBX-CD	D24	DC	CP	DURHAM, ETC., NC	BLANK0000034665	182.6
No	W24EC-D	D24	LD	LIC	MANTEO, NC	BLDTL20150311AAN	156.0
No	WWAY	D24	DT	CP	WILMINGTON, NC	BLANK0000026634	147.2
No	WILT-LD	D24	LD	LIC	WILMINGTON, NC	BLANK0000001380	137.7
No	WRLH-TV	D24	DT	CP	RICHMOND, VA	BLANK0000034147	270.9

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D23  
Mask: Full Service  
Latitude: 35 6 33.00 N (NAD83)  
Longitude: 77 6 9.00 W  
Height AMSL: 68.6 m  
HAAT: 0.0 m  
Peak ERP: 15.0 kW

Antenna: SIRA 4x3 40.0 deg  
Elev Pattn: Generic

49.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	13.1 kW	65.9 m	38.8 km
45.0	12.6	64.0	38.3
90.0	12.8	66.2	38.7
135.0	14.6	64.0	39.0
180.0	2.58	59.6	29.9
225.0	0.286	64.4	19.6
270.0	4.18	57.5	31.9
315.0	12.8	60.3	37.7

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m    Computed HAAT: 63 m

Distance to Canadian border: 849.6 km

Distance to Mexican border: 2146.2 km

Conditions at FCC monitoring station: Laurel MD

Bearing: 3.1 degrees    Distance: 451.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 291.1 degrees    Distance: 2526.6 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 BLEDT20100913ACD LIC scenario 1

\*\*IX: 7.04% interference caused

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUNK-TV	D23	DT	LIC	GREENVILLE, NC	BLEDT20100913ACD	
Undesireds:	WDFH-LD	D23	LD	APP	GREENVILLE, NC	WDFH_Ch23_4x3_40deg_Mo	66.9 km
	WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	325.3
	WITD-CD	D23	DC	LIC	CHESAPEAKE, VA	BLANK0000001500	171.5
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
34279.3	2,018,546	34238.0	2,011,494	34106.1	1,997,659	31152.7    1,856,930	8.66    7.04
Undesired			Total IX	Unique IX, before		Unique IX, after	
WDFH-LD D23 LD APP			2979.5	148,172		2953.5    140,729	
WBTV D23 DT LIC			120.8	13,833	120.8    13,833	94.8    6,390	
WITD-CD D23 DC LIC			11.1	2	11.1    2	11.1    2	

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Interference to BLANK0000034156 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WECT	D23	DT	CP	WILMINGTON, NC	BLANK0000034156	
Undesireds:	WDFH-LD	D23	LD	APP	GREENVILLE, NC	WDFH_Ch23_4x3_40deg_Mo	147.2 km
	WUVC-DT	D22	DT	CP	FAYETTEVILLE, NC	BLANK0000034450	169.5
	WBTV	D23	DT	LIC	CHARLOTTE, NC	BLCDT19991025AEB	306.2
	WARZ-CD	D23	DC	CP	SMITHFIELD-SELMA, NC	BLANK0000034835	155.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
37889.9	1,156,216	37889.9	1,156,216	37600.4	1,148,236	37508.4    1,146,759	0.24    0.13
Undesired			Total IX	Unique IX, before		Unique IX, after	
WDFH-LD D23 LD APP			92.0	1,477		92.0    1,477	
WUVC-DT D22 DT CP			25.0	1,838	19.0    1,725	19.0    1,725	
WBTV D23 DT LIC			2.0	0	1.0    0	1.0    0	

WARZ-CD D23 DC CP            268.5            6,255            263.5            6,142            263.5            6,142

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Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WDFH-LD	D23	LD	APP	GREENVILLE, NC	WDFH_Ch23_4x3_40deg_Mo	
Undesireds:	WECT	D23	DT	CP	WILMINGTON, NC	BLANK0000034156	147.2 km
	WLDW-LD	D23	LD	LIC	MYRTLE BEACH, SC	BLANK0000007794	289.9

	Service area		Terrain-limited		IX-free		Percent IX
	3711.7		122,621	3666.8	122,395		1.21 0.18
Undesired							
WECT D23 DT CP		45.0		226	45.0	226	1.21 0.18