tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: florence33d8kwinceltiat170fff, Model: Longley-Rice
Start: 2021.09.20 10:03:39

Study created: 2021.09.20 10:03:39

Study build station data: LMS TV 2021-09-20

    Proposal: W20DH-D D33 LD CP FLORENCE, SC
 Facility ID: 185606
Station data: User record
   Record ID: 1109
     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	DW19CA	N19-	TX	APP	LUMBERTON, NC	BLTT19961112JH	123.0 km
No	WDRN-LD	D32	LD	LIC	FAYETTEVILLE, NC	BLANK0000141011	149.9
No	WTMQ-LD	D32	LD	CP	JACKSONVILLE, NC	BLANK0000029998	220.3
No	WAXN-TV	D32	DT	LIC	KANNAPOLIS, NC	BLANK0000146859	179.5
No	WRPX-TV	D32	DT	LIC	ROCKY MOUNT, NC	BLANK0000081831	256.5
No	WJWJ-TV	D32	DT	LIC	BEAUFORT, SC	BLANK0000100564	161.3
Yes	WMBF-TV	D32	DT	LIC	MYRTLE BEACH, SC	BLCDT20091105AAP	58.6
No	W33ER-D	D33	LD	CP	AUGUSTA, GA	BLANK0000155485	243.7
No	WGNM	D33	DT	LIC	MACON, GA	BLANK0000113679	381.7
No	WDID-LD	D33	LD	LIC	SAVANNAH, GA	BLANK0000106516	251.8
No	W33EH-D	D33	LD	LIC	BLACK MOUNTAIN, NC	BLANK0000082269	309.2
No	WJGC-LD	D33	LD	LIC	JACKSONVILLE, NC	BLANK0000117659	245.4
No	WJGC-LD	D33	LD	CP	JACKSONVILLE, NC	BLANK0000148623	265.8
No	WTNG-CD	D33	DC	LIC	LUMBERTON-PEMBROKE, NC	BLANK0000081109	103.6
No	W33EI-D	D33	LD	LIC	RALEIGH, NC	BLANK0000125022	216.8
No	WILT-LD	D33	LD	LIC	WILMINGTON, NC	BLANK0000081348	158.8
No	WUNL-TV	D33	DT	LIC	WINSTON-SALEM, NC	BLANK0000121301	282.7
No	WRLK-TV	D33	DT	LIC	COLUMBIA, SC	BLANK0000111852	118.6

No	W33DN-D	D33	LD	CP	FLORENCE, SC	BLANK0000138316	52.2
No	WNGS-LD	D33	LD	LIC	GREENVILLE, SC	BLANK0000059653	276.2
Yes	WQHI-LD	D33	LD	CP	MYRTLE BEACH, SC	BLANK0000139414	55.8
No	WTVZ-TV	D33	DT	CP	NORFOLK, VA	BLANK0000117232	433.1
No	WTVZ-TV	D33	DT	LIC	NORFOLK, VA	BLANK0000125150	433.1
No	WPEM-LD	D34	LD	LIC	LUMBERTON, NC	BLANK0000121677	104.5
No	WPEM-LD	D34	LD	CP	LUMBERTON, NC	BLANK0000124896	104.5
No	WYBE-CD	D34	DC	LIC	PINEHURST, NC	BLANK0000080833	143.1
No	WITN-TV	D34	DT	LIC	WASHINGTON, NC	BLANK0000091433	265.2
No	WIDO-LD	D34	LD	CP	WILMINGTON, NC	BLANK0000157775	142.0
Yes	WGWG	D34	DT	LIC	CHARLESTON, SC	BLCDT20060630ADJ	108.0
No	WNSC-TV	D34	DT	LIC	ROCK HILL, SC	BLANK0000105822	161.6

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: Stringent
   Latitude:  33 53 46.40 N (NAD83)
  Longitude:  79 40 40.60 W
Height AMSL: 34.8 m
       HAAT: 0.0 m
   Peak ERP: 8.00 kW
    Antenna: ELTI-ELTI UHF Panel (ID 1008435) 170.0 deg
Elev Pattrn: Generic
```

50.6 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.009 kW	10.6 m	5.4 km
45.0	0.043	11.4	7.8
90.0	0.054	15.6	8.3
135.0	3.06	16.6	22.4
180.0	7.30	16.1	26.4
225.0	0.718	13.7	15.6
270.0	0.022	10.1	6.7

315.0 0.043 8.9 7.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 13 m

Distance to Canadian border: 897.0 km

Distance to Mexican border: 1876.3 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 270.9 degrees Distance: 465.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 294.5 degrees Distance: 2361.2 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%

Interference to BLCDT20091105AAP LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WMBF-TV	D32	DT	LIC	MYRTLE BEACH, SC	BLCDT20091105AAP	
Undesireds:	W20DH-D	D33	LD	CP	FLORENCE, SC		58.6 km

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
15777.3	445,890	15777.3	445,890	15777.3	445,890	15733.8	445,153	0.28	0.17

Undesired	Total IX	Unique IX, before	Unique IX, after
W20DH-D D33 LD CP	43.5	737	43.5	737

Interference to BLANK0000139414 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WQHI-LD	D33	LD	CP	MYRTLE BEACH, SC	BLANK0000139414	
Undesireds:	W20DH-D	D33	LD	CP	FLORENCE, SC		55.8 km
	WMBF-TV	D32	DT	LIC	MYRTLE BEACH, SC	BLCDT20091105AAP	16.8
	WJGC-LD	D33	LD	LIC	JACKSONVILLE, NC	BLANK0000117659	201.8
	WTNG-CD	D33	DC	LIC	LUMBERTON-PEMBROKE, NC	BLANK0000081109	91.1
	W33DN-D	D33	LD	CP	FLORENCE, SC	BLANK0000138316	82.1
	WPEM-LD	D34	LD	LIC	LUMBERTON, NC	BLANK0000121677	88.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
4909.3	295,951	4909.3	295,951	4168.8	278,743	4163.8	277,826	0.12	0.33

Undesired	Total IX		Unique IX, before		Unique IX, after	
W20DH-D D33 LD CP	5.9	917			4.9	917
WMBF-TV D32 DT LIC	709.6	16,748	709.6	16,748	709.6	16,748
WTNG-CD D33 DC LIC	18.2	273	18.2	273	18.2	273
W33DN-D D33 LD CP	12.8	187	12.8	187	11.8	187

Interference to BLCDT20060630ADJ LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WGWG	D34	DT	LIC	CHARLESTON, SC	BLCDT20060630ADJ	
Undesireds:	W20DH-D	D33	LD	CP	FLORENCE, SC		108.0 km
	WITN-TV	D34	DT	LIC	WASHINGTON, NC	BLANK0000091433	344.4
	WNSC-TV	D34	DT	LIC	ROCK HILL, SC	BLANK0000105822	245.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32663.0	990,480	32663.0	990,480	32660.0	990,480	32608.6	989,814	0.16	0.07

Undesired	Total IX		Unique IX, before		Unique IX, after	
W20DH-D D33 LD CP	51.4	666			51.4	666

WITN-TV D34 DT LIC	2.0	0	1.0	0	1.0	0		
WNSC-TV D34 DT LIC	2.0	0	1.0	0	1.0	0		

Interference to proposal scenario 1
15.98% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W20DH-D	D33	LD	CP	FLORENCE, SC		
Undesireds:	WJGC-LD	D33	LD	LIC	JACKSONVILLE, NC	BLANK0000117659	245.4 km
	WRLK-TV	D33	DT	LIC	COLUMBIA, SC	BLANK0000111852	118.6
	W33DN-D	D33	LD	CP	FLORENCE, SC	BLANK0000138316	52.2
	WQHI-LD	D33	LD	CP	MYRTLE BEACH, SC	BLANK0000139414	55.8
	WPEM-LD	D34	LD	LIC	LUMBERTON, NC	BLANK0000121677	104.5

Service area		Terrain-limited		IX-free		Percent IX	
672.3	13,194	672.3	13,194	547.6	11,085	18.54	15.98

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WRLK-TV D33 DT LIC	24.7		541	4.9	126	0.74	0.95
W33DN-D D33 LD CP	78.2		673	35.6	110	5.30	0.83
WQHI-LD D33 LD CP	82.1	1,873		38.6	1,242	5.74	9.41