

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Florence18d15kwincff, Model: Longley-Rice

Start: 2022.03.02 16:12:38

Study created: 2022.03.02 16:12:38

Study build station data: LMS TV 2022-03-02

Proposal: W18FC-D D18 LD LIC FLORENCE, SC

Facility ID: 185606

Station data: User record

Record ID: 653

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	WCEE-LD	D17	LD	LIC	CHARLOTTE, NC	BLANK0000180361	139.9 km
No	W17EE-D	D17	LD	LIC	LILESVILLE/WADESBORO, NC	BLANK0000177549	85.5
No	WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK0000143682	190.3
No	W17DO-D	D17	LD	LIC	WILMINGTON, NC	BLANK0000178056	142.2
No	WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK0000118551	148.0
No	WTAT-TV	D17	DT	LIC	CHARLESTON, SC	BLANK0000184941	148.0
No	WJXT	D18	DT	LIC	JACKSONVILLE, FL	BLANK0000097950	476.4
No	WUVG-DT	D18	DT	LIC	ATHENS, GA	BLANK0000081094	428.0
No	WIEF-LD	D18	LD	LIC	AUGUSTA, GA	BLANK0000096704	216.7
No	WPGA-LD	D18-	LD	LIC	MACON, GA	BLANK0000163851	393.2
No	WUET-LD	D18	LD	LIC	SAVANNAH, GA	BLANK0000106517	283.6
Yes	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908	144.0
No	W18BB-D	D18	LD	LIC	ELIZABETH CITY, NC	BLDTL20110720ACI	389.3
No	W18EV-D	D18	LD	CP	NEW BERN, NC	BLANK0000178487	273.1
Yes	WLFL	D18	DT	LIC	RALEIGH, NC	BLANK0000125309	190.3
No	W18EP-D	D18	LD	LIC	WEAVERVILLE, NC	BLANK0000071711	302.1
No	WQDH-LD	D18	LD	LIC	WILMINGTON, NC	BLANK0000083869	165.3
No	WLCN-CD	D18	DC	LIC	CHARLESTON, SC	BLDTA20090616AAY	143.5

No	WPXK-TV	D18	DT	LIC	JELICO, TN	BLANK0000081463	428.7
No	DWVBN-LP	D18+	LD	APP	VIRGINIA BEACH, VA	BLANK0000054622	427.5
No	WBPI-CD	D19	DC	LIC	AUGUSTA, GA	BLANK0000059661	220.9
No	WUNC-TV	D19	LD	LIC	CHAPEL HILL, NC	BLANK0000115730	190.3
No	WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK0000146857	143.0
No	WYDO	D19	DT	LIC	GREENVILLE, NC	BLANK0000129688	237.2
No	DDW50EQ-D	D19	LD	APP	LUMBERTON, NC	BLANK0000086353	131.7
No	DW19CA	N19-	TX	APP	LUMBERTON, NC	BLTT19961112JH	90.5
No	W19EU-D	D19	LD	CP	WILMINGTON, NC	BLANK0000072250	165.3
No	WCSC-TV	D19	DT	LIC	CHARLESTON, SC	BLANK0000054856	149.7
No	WCSC-TV	D19	DT	LIC	CHARLESTON, SC	BLANK0000184937	149.7
Yes	W19FC-D	D19	LD	LIC	FLORENCE, SC	BLANK0000177716	0.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D18
 Mask: Full Service
 Latitude: 34 16 18.00 N (NAD83)
 Longitude: 79 43 33.00 W
 Height AMSL: 128.6 m
 HAAT: 0.0 m
 Peak ERP: 15.0 kW
 Antenna: Omnidirectional
 Elev Pattn: Generic

49.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	15.0 kW	110.4 m	46.0 km
45.0	15.0	109.1	45.8
90.0	15.0	111.9	46.1
135.0	15.0	100.0	44.8
180.0	15.0	92.4	43.9
225.0	15.0	91.7	43.8
270.0	15.0	87.1	43.2

315.0 15.0 83.6 42.7

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 98 m

Distance to Canadian border: 855.6 km

Distance to Mexican border: 1889.3 km

Conditions at FCC monitoring station: Powder Springs GA

Bearing: 265.8 degrees Distance: 462.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 293.6 degrees Distance: 2340.2 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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 BLANK0000097908 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908	
Undesireds:	W18FC-D	D18	LD	LIC	FLORENCE, SC		144.0 km
	WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK0000143682	204.8
	WHNS	D17	DT	LIC	GREENVILLE, SC	BLANK0000083635	177.1

WUVG-DT	D18	DT	LIC	ATHENS, GA	BLANK0000081094	367.8
WLFL	D18	DT	LIC	RALEIGH, NC	BLANK00000125309	204.8
WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK00000146857	0.9

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
33606.6 3,640,752	32745.0 3,573,962	30968.8 3,433,589	30573.6 3,421,868	1.28 0.34

Undesired	Total IX	Unique IX, before	Unique IX, after
W18FC-D D18 LD LIC	678.7 25,001	395.1 11,721	
WRAL-TV D17 DT LIC	4.0 27	0.0 0	
WHNS D17 DT LIC	111.8 8,849	84.8 6,742	
WUVG-DT D18 DT LIC	44.0 2,488	19.0 439	
WLFL D18 DT LIC	1653.4 131,827	1620.4 130,530	
WSOC-TV D19 DT LIC	10.0 79	8.0 79	

Interference to BLANK00000125309 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WLFL	D18	DT	LIC	RALEIGH, NC	BLANK00000125309	
Undesireds: W18FC-D	D18	LD	LIC	FLORENCE, SC		190.3 km
WRAL-TV	D17	DT	LIC	RALEIGH, NC	BLANK00000143682	0.0
WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK00000097908	204.8
WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK00000146857	204.3
WYDO	D19	DT	LIC	GREENVILLE, NC	BLANK00000129688	125.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
47192.3 3,745,821	46959.8 3,740,807	44211.8 3,623,090	44188.9 3,621,627	0.05 0.04

Undesired	Total IX	Unique IX, before	Unique IX, after
W18FC-D D18 LD LIC	241.1 9,227	23.0 1,463	
WRAL-TV D17 DT LIC	17.1 3,205	17.1 3,205	
WCCB D18 DT LIC	1739.8 98,075	1733.8 97,859	
WSOC-TV D19 DT LIC	6.0 216	0.0 0	
WYDO D19 DT LIC	991.1 16,437	991.1 16,437	

Interference to BLANK0000177716 LIC scenario 1

**IX: 88.95% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	W19FC-D	D19	LD	LIC	FLORENCE, SC	BLANK0000177716			
Undesireds:	W18FC-D	D18	LD	LIC	FLORENCE, SC		0.0 km		
	WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK0000146857	143.0		
	WCSC-TV	D19	DT	LIC	CHARLESTON, SC	BLANK0000054856	149.7		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
137.1	1,470	137.1	1,470	112.9	1,366	23.2	151	79.46	88.95
Undesired		Total IX		Unique IX, before		Unique IX, after			
W18FC-D	D18 LD LIC	113.9	1,319			89.7	1,215		
WSOC-TV	D19 DT LIC	18.1	91	16.1	91	0.0	0		
WCSC-TV	D19 DT LIC	8.1	13	6.0	13	0.0	0		

Interference to BLANK0000177716 LIC scenario 2

**IX: 88.95% interference caused

	Call	Chan	Svc	Status	City, State	File Number	Distance		
Desired:	W19FC-D	D19	LD	LIC	FLORENCE, SC	BLANK0000177716			
Undesireds:	W18FC-D	D18	LD	LIC	FLORENCE, SC		0.0 km		
	WSOC-TV	D19	DT	LIC	CHARLOTTE, NC	BLANK0000146857	143.0		
	WCSC-TV	D19	DT	LIC	CHARLESTON, SC	BLANK0000184937	149.7		
Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
137.1	1,470	137.1	1,470	112.9	1,366	23.2	151	79.46	88.95
Undesired		Total IX		Unique IX, before		Unique IX, after			
W18FC-D	D18 LD LIC	113.9	1,319			89.7	1,215		
WSOC-TV	D19 DT LIC	18.1	91	16.1	91	0.0	0		
WCSC-TV	D19 DT LIC	8.1	13	6.0	13	0.0	0		

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W18FC-D	D18	LD	LIC	FLORENCE, SC		
Undesireds:	WCCB	D18	DT	LIC	CHARLOTTE, NC	BLANK0000097908	144.0 km
	WLFL	D18	DT	LIC	RALEIGH, NC	BLANK0000125309	190.3

	Service area		Terrain-limited		IX-free		Percent IX
	6244.3	271,801	6232.2	271,626	6178.4	269,339	0.86 0.84

Undesired			Total IX		Unique IX	Prcnt Unique IX
WCCB D18 DT LIC		46.9	2,091	42.9	2,089	0.69 0.77
WLFL D18 DT LIC		11.0	198	7.0	196	0.11 0.07