

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: zFlor24d15kwBA250IncF, Model: Longley-Rice

Start: 2023.01.20 11:44:21

Study created: 2023.01.20 11:44:21

Study build station data: LMS TV 2023-01-19

Proposal: W24EX-D D24 LD APP FLORENCE, SC

Facility ID: 182022

Station data: User record

Record ID: 1058

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	WAAU-LD	D23	LD	LIC	AUGUSTA, GA	BLDTL20120522AFJ	228.6 km
No	WBTW	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	180.3
No	WNGT-CD	D23	DC	LIC	RALEIGH, NC	BLANK0000143970	190.1
No	WECT	D23	DT	LIC	WILMINGTON, NC	BLANK0000111584	142.2
No	WECT	D23	DT	APP	WILMINGTON, NC	BLANK0000207207	142.2
No	WAZS-LD	D23	LD	CP	NORTH CHARLESTON, SC	BLANK0000054749	153.3
No	W24FC-D	D24	LD	LIC	AUGUSTA, GA	BLANK0000194531	256.0
No	W24FC-D	D24	LD	CP	AUGUSTA, GA	BLANK0000203284	280.2
No	WPXC-TV	D24	DT	LIC	BRUNSWICK, GA	BLCDT20110426AAQ	426.8
No	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	336.2
Yes	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	178.0
No	W24CP-D	D24	LD	LIC	DURHAM, NC	BLANK0000004266	185.0
No	WUBX-CD	D24	DC	LIC	DURHAM, ETC., NC	BLANK0000108883	206.9
No	W24EC-D	D24	LD	LIC	MANTEO, NC	BLDTL20150311AAN	410.9
Yes	WWAY	D24	DT	LIC	WILMINGTON, NC	BLANK0000100423	142.2
Yes	WITV	D24	DT	LIC	CHARLESTON, SC	BLANK0000118279	149.7
No	WETP-TV	D24	DT	LIC	SNEEDVILLE, TN	BLANK0000120200	391.2
No	WRLH-TV	D24	DT	LIC	RICHMOND, VA	BLANK0000186907	407.8

No	WJZY	D25	DT	LIC	BELMONT, NC	BLANK0000146872	178.1
No	WUNK-TV	D25	DT	LIC	GREENVILLE, NC	BLANK0000143143	240.4
No	WCIV	D25	DT	LIC	CHARLESTON, SC	BLANK0000184940	148.0
No	WZRB	D25	DT	LIC	COLUMBIA, SC	BLANK0000081456	119.6
Yes	W25FQ-D	D25	LD	CP	FLORENCE, SC	BLANK0000116678	5.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D24
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: PSI-PSILP8BA (ID 20483) 250.0 deg
Elev Pattnr: Generic

49.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	8.89 kW	110.4 m	42.7 km
45.0	0.726	109.1	29.8
90.0	0.662	111.9	29.5
135.0	7.35	100.0	40.6
180.0	14.7	92.4	43.1
225.0	13.4	91.7	42.6
270.0	13.8	87.1	42.1
315.0	14.4	83.6	41.8

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

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 BLANK0000147158 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	
Undesireds:	W24EX-D	D24	LD	APP	FLORENCE, SC		178.0 km
	WBTW	D23	DT	LIC	CHARLOTTE, NC	BLANK0000147971	2.4
	WGTA	D24	DT	LIC	TOCCOA, GA	BLANK0000001315	216.5
	WUBX-CD	D24	DC	LIC	DURHAM, ETC., NC	BLANK0000108883	223.9
	WWAY	D24	DT	LIC	WILMINGTON, NC	BLANK0000100423	304.1
	WITV	D24	DT	LIC	CHARLESTON, SC	BLANK0000118279	301.3
	WETP-TV	D24	DT	LIC	SNEEDVILLE, TN	BLANK0000120200	214.4
	WRLH-TV	D24	DT	LIC	RICHMOND, VA	BLANK0000186907	399.7
	WJZY	D25	DT	LIC	BELMONT, NC	BLANK0000146872	2.2
	WZRB	D25	DT	LIC	COLUMBIA, SC	BLANK0000081456	145.7
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
40233.1	3,879,942	38752.2	3,805,926	38252.4	3,788,587	38021.6 3,784,483	0.60 0.11

Undesired		Total IX	Unique IX, before		Unique IX, after	
W24EX-D D24 LD APP	379.2	6,777			230.8	4,104
WBTW D23 DT LIC	63.1	3,187	40.1	2,042	40.1	2,042
WGTA D24 DT LIC	16.0	278	8.0	240	7.0	240
WUBX-CD D24 DC LIC	16.0	453	0.0	0	0.0	0
WWAY D24 DT LIC	248.9	6,915	195.9	5,741	105.7	3,748
WITV D24 DT LIC	103.6	1,219	57.4	672	37.3	438
WETP-TV D24 DT LIC	28.1	812	18.1	643	18.1	643
WRLH-TV D24 DT LIC	11.0	636	2.0	0	2.0	0
WJZY D25 DT LIC	107.2	6,473	84.2	5,328	84.2	5,328
WZRB D25 DT LIC	12.1	316	0.0	0	0.0	0

Interference to BLANK0000100423 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWAY	D24	DT	LIC	WILMINGTON, NC	BLANK0000100423	
Undesireds:	W24EX-D	D24	LD	APP	FLORENCE, SC		142.2 km
	WECT	D23	DT	LIC	WILMINGTON, NC	BLANK0000111584	0.0
	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	304.1
	WITV	D24	DT	LIC	CHARLESTON, SC	BLANK0000118279	193.9
	WUNK-TV	D25	DT	LIC	GREENVILLE, NC	BLANK0000143143	166.8

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
39395.8 1,207,763	39395.8 1,207,763	39109.8 1,203,888	38945.6 1,199,273	0.42 0.38

Undesired		Total IX	Unique IX, before		Unique IX, after	
W24EX-D D24 LD APP	165.2	4,615			164.2	4,615
WCNC-TV D24 DT LIC	1.0	0	1.0	0	0.0	0
WITV D24 DT LIC	149.2	0	149.2	0	149.2	0
WUNK-TV D25 DT LIC	135.8	3,875	135.8	3,875	135.8	3,875

Interference to BLANK0000118279 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WITV	D24	DT	LIC	CHARLESTON, SC	BLANK0000118279	

Undesireds:	W24EX-D	D24	LD	APP	FLORENCE, SC		149.7 km
	WTOC-TV	D23	DT	CP	SAVANNAH, GA	BLANK0000203704	182.5
	WPXC-TV	D24	DT	LIC	BRUNSWICK, GA	BLCDT20110426AAQ	302.4
	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	301.3
	WCIV	D25	DT	LIC	CHARLESTON, SC	BLANK0000184940	1.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
28686.0	872,375	28686.0	872,375	26817.8	858,740	26816.8	858,740	0.00 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
W24EX-D D24 LD APP	1.0	0		1.0	0	
WTOC-TV D23 DT CP	97.4	142	95.4	132	95.4 132	
WPXC-TV D24 DT LIC	2.0	10	0.0	0	0.0 0	
WCNC-TV D24 DT LIC	1.0	0	1.0	0	1.0 0	
WCIV D25 DT LIC	1769.9	13,493	1769.9	13,493	1769.9 13,493	

Interference to BLANK0000118279 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WITV	D24	DT	LIC	CHARLESTON, SC	BLANK0000118279	

Undesireds:	W24EX-D	D24	LD	APP	FLORENCE, SC		149.7 km
	WTOC-TV	D23	DT	BL	SAVANNAH, GA	DTVBL590	182.5
	WPXC-TV	D24	DT	LIC	BRUNSWICK, GA	BLCDT20110426AAQ	302.4
	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	301.3
	WCIV	D25	DT	LIC	CHARLESTON, SC	BLANK0000184940	1.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX
28686.0	872,375	28686.0	872,375	26815.7	858,740	26814.8	858,740	0.00 0.00

Undesired		Total IX		Unique IX, before		Unique IX, after
W24EX-D D24 LD APP	1.0	0		1.0	0	
WTOC-TV D23 DT BL	99.4	142	97.4	132	97.4 132	
WPXC-TV D24 DT LIC	2.0	10	0.0	0	0.0 0	
WCNC-TV D24 DT LIC	1.0	0	1.0	0	1.0 0	
WCIV D25 DT LIC	1769.9	13,493	1769.9	13,493	1769.9 13,493	

Interference to BLANK0000116678 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W25FQ-D	D25	LD	CP	FLORENCE, SC	BLANK0000116678	
Undesireds:	W24EX-D	D24	LD	APP	FLORENCE, SC		5.0 km
	WJZY	D25	DT	LIC	BELMONT, NC	BLANK0000146872	179.9
	WCIV	D25	DT	LIC	CHARLESTON, SC	BLANK0000184940	143.5
	WZRB	D25	DT	LIC	COLUMBIA, SC	BLANK0000081456	116.9
	WWMB	D26	DT	LIC	FLORENCE, SC	BLANK0000119979	41.2
	Service area		Terrain-limited		IX-free, before	IX-free, after	Percent New IX
	3055.5	162,708	3055.5	162,708	2822.5	154,000	2816.5 152,065 0.21 1.26
Undesired					Total IX	Unique IX, before	Unique IX, after
W24EX-D D24 LD APP		27.3			6,434	6.1	1,935
WJZY D25 DT LIC		20.2			2,216	8.1	1,028
WCIV D25 DT LIC		209.8			7,504	189.7	6,256
WZRB D25 DT LIC		4.0			39	2.0	3
WWMB D26 DT LIC		21.1			197	13.1	173

Interference to proposal scenario 1
2.20% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W24EX-D	D24	LD	APP	FLORENCE, SC		
Undesireds:	W24FC-D	D24	LD	LIC	AUGUSTA, GA	BLANK0000194531	256.0 km
	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	178.0
	WWAY	D24	DT	LIC	WILMINGTON, NC	BLANK0000100423	142.2
	WITV	D24	DT	LIC	CHARLESTON, SC	BLANK0000118279	149.7
	Service area		Terrain-limited		IX-free	Percent IX	
	4919.5	225,364	4914.5	225,314	4753.2	220,366	3.28 2.20

Undesired		Total IX		Unique IX	Prcnt Unique IX	
WCNC-TV D24 DT LIC	19.9	163	6.0	8	0.12	0.00
WWAY D24 DT LIC	100.0	2,785	86.1	2,630	1.75	1.17
WITV D24 DT LIC	55.3	2,155	55.3	2,155	1.13	0.96