

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Flor15d15kwAER100FF, Model: Longley-Rice

Start: 2023.11.07 11:46:08

Study created: 2023.11.07 11:46:08

Study build station data: LMS TV 2023-11-06

Proposal: W15DC-D D15 LD APP FLORENCE, SC

Facility ID: 182014

Station data: User record

Record ID: 1925

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	WRDC	D14	DT	LIC	DURHAM, NC	BLANK0000125503	184.0 km
No	WWJS	D14	DD	LIC	HICKORY, NC	BLANK0000109333	217.1
No	WXIV-LD	D14	LD	LIC	MYRTLE BEACH, SC	BLANK0000216337	58.2
No	WPHJ-LD	D15+	LD	LIC	BAXLEY, GA	BLANK0000187241	298.2
No	WPHJ-LD	D15+	LD	CP	BAXLEY, GA	BLANK0000223550	298.2
No	WGGD-LD	D15	LD	LIC	GAINESVILLE, GA	BLDRTL20121213AIK	417.1
No	W15EB-D	D15	DC	LIC	CHARLOTTE, NC	BLANK0000188950	176.3
No	WDKT-LD	D15	LD	LIC	HENDERSONVILLE, NC	BLANK0000089000	288.5
No	W15DR-D	D15	LD	LIC	MAGGIE VALLEY, ETC, NC	BLANK0000119376	370.2
No	W15DY-D	D15	LD	LIC	MARION, ETC., NC	BLANK0000119377	289.7
No	W15EL-D	D15	LD	LIC	MARS HILL, NC	BLANK0000081166	342.1
Yes	WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK0000143683	184.0
No	W15EF-D	D15	LD	LIC	SPARTA, NC	BLANK0000055108	303.5
No	WILM-LD	D15	LD	LIC	WILMINGTON, NC	BLANK0000055240	108.5
No	WHWD-LD	D15	LD	LIC	Winston-Salem, NC	BLANK0000143309	226.0
Yes	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	126.0
Yes	W15ES-D	D15	LD	LIC	MYRTLE BEACH, SC	BLANK0000194110	73.1
Yes	W15ES-D	D15	LD	CP	MYRTLE BEACH, SC	BLANK0000198647	82.1

Yes	W15ES-D	D15	LD	LIC	MYRTLE BEACH, SC	BLANK0000224317	82.1
No	WTNZ	D15	DT	LIC	KNOXVILLE, TN	BLANK0000081278	461.0
No	W15DO-D	D15	LD	LIC	NORFOLK, VA	BLANK0000120726	279.8
No	W15DO-D	D15	LD	CP	NORFOLK, VA	BLANK0000157818	325.9
No	WVPT	D15	DD	LIC	STAUNTON, VA	BLANK0000221020	442.9
No	WPXU-TV	D16	DT	LIC	JACKSONVILLE, NC	BLANK0000129487	178.7
No	WDRH-LD	D16-	LD	LIC	Raleigh, NC	BLANK0000193085	190.4
No	WXII-TV	D16	DT	LIC	WINSTON-SALEM, NC	BLANK0000157823	259.5
No	WJPM-TV	D16	DT	LIC	FLORENCE, SC	BLANK0000138174	33.6
No	DW19CA	N19-	TX	APP	LUMBERTON, NC	BLTT19961112JH	83.6

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D15
 Mask: Full Service
 Latitude: 34 10 51.00 N (NAD83)
 Longitude: 79 23 51.00 W
 Height AMSL: 95.1 m
 HAAT: 0.0 m
 Peak ERP: 15.0 kW
 Antenna: PSI-PSILP8AER (ID 20469) 100.0 deg
 Elev Pattn: Generic
 Elec Tilt: 1.00

48.8 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	5.84 kW	66.2 m	35.8 km
45.0	14.0	65.7	40.0
90.0	15.0	67.6	40.6
135.0	15.0	72.8	41.4
180.0	9.96	80.2	40.6
225.0	1.95	81.6	32.7
270.0	0.277	78.7	22.3
315.0	0.170	75.6	19.4

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 74 m

Distance to Canadian border: 873.5 km

Distance to Mexican border: 1912.7 km

Conditions at FCC monitoring station: Powder Springs GA
Bearing: 267.4 degrees Distance: 491.9 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 293.7 degrees Distance: 2371.9 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: 1.00 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000143683 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK0000143683	
Undesireds:	W15DC-D	D15	LD	APP	FLORENCE, SC		184.0 km
	WRDC	D14	DT	LIC	DURHAM, NC	BLANK0000125503	0.0
	W15EB-D	D15	DC	LIC	CHARLOTTE, NC	BLANK0000188950	219.2
	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	268.9

WFDC-DT	D15	DT	LIC	ARLINGTON, VA	BLANK0000041206	384.8
WVPT	D15	DD	LIC	STAUNTON, VA	BLANK0000221020	285.5
WPXU-TV	D16	DT	LIC	JACKSONVILLE, NC	BLANK0000129487	161.6
WXII-TV	D16	DT	LIC	WINSTON-SALEM, NC	BLANK0000157823	183.3

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
48193.8 3,802,534	47926.0 3,798,842	46926.7 3,717,139	46782.3 3,706,083	0.31 0.30

Undesired	Total IX	Unique IX, before	Unique IX, after
W15DC-D D15 LD APP	158.4 11,091	144.4 11,056	
WRDC D14 DT LIC	12.1 177	12.1 177	
W15EB-D D15 DC LIC	34.9 2,887	8.0 763	
WLTX D15 DT LIC	64.9 1,893	28.9 360	
WFDC-DT D15 DT LIC	42.1 1,895	16.1 290	
WVPT D15 DD LIC	458.2 11,975	374.7 6,083	
WPXU-TV D16 DT LIC	110.3 718	110.3 718	
WXII-TV D16 DT LIC	392.3 71,553	333.0 66,406	

Interference to BLANK0000082085 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	
Undesireds: W15DC-D	D15	LD	APP	FLORENCE, SC		126.0 km
WWJS	D14	DD	LIC	HICKORY, NC	BLANK0000109333	159.5
W15EB-D	D15	DC	LIC	CHARLOTTE, NC	BLANK0000188950	122.9
WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK0000143683	268.9
WJPM-TV	D16	DT	LIC	FLORENCE, SC	BLANK0000138174	96.0

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
34749.0 1,582,666	34626.1 1,579,876	33164.2 1,505,912	33037.9 1,502,516	0.38 0.23

Undesired	Total IX	Unique IX, before	Unique IX, after
W15DC-D D15 LD APP	229.0 25,313	126.4 3,396	
WWJS D14 DD LIC	3.0 0	0.0 0	
W15EB-D D15 DC LIC	516.8 19,725	418.7 15,678	
WRAZ D15 DT LIC	774.3 16,522	591.7 11,492	

WJPM-TV D16 DT LIC 353.4 42,747 268.9 41,764 178.3 20,031

Interference to BLANK0000194110 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W15ES-D	D15	LD	LIC	MYRTLE BEACH, SC	BLANK0000194110	
Undesireds:	W15DC-D	D15	LD	APP	FLORENCE, SC		73.1 km
	WXIV-LD	D14	LD	LIC	MYRTLE BEACH, SC	BLANK0000216337	15.7
	WPHJ-LD	D15+	LD	LIC	BAXLEY, GA	BLANK0000187241	274.6
	WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK0000143683	236.5
	WILM-LD	D15	LD	LIC	WILMINGTON, NC	BLANK0000055240	110.9
	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	168.1
	W15DO-D	D15	LD	LIC	NORFOLK, VA	BLANK0000120726	307.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
139.7 35,324	139.7 35,324	128.8 33,718	127.8 33,633	0.77 0.25

Undesired	Total IX	Unique IX, before	Unique IX, after
W15DC-D D15 LD APP	7.9 701	1.0 85	
WXIV-LD D14 LD LIC	8.9 1,276	7.9 1,243	1.0 627
WRAZ D15 DT LIC	1.0 33	0.0 0	0.0 0
WILM-LD D15 LD LIC	1.0 330	1.0 330	1.0 330
WLTX D15 DT LIC	1.0 0	1.0 0	1.0 0

Interference to BLANK0000198647 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W15ES-D	D15	LD	CP	MYRTLE BEACH, SC	BLANK0000198647	
Undesireds:	W15DC-D	D15	LD	APP	FLORENCE, SC		82.1 km
	WXIV-LD	D14	LD	LIC	MYRTLE BEACH, SC	BLANK0000216337	37.8
	WPHJ-LD	D15+	LD	LIC	BAXLEY, GA	BLANK0000187241	246.4
	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	153.4
	W15DO-D	D15	LD	LIC	NORFOLK, VA	BLANK0000120726	334.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6015.6 149,976	6015.6 149,976	5770.8 146,890	5627.4 145,311	2.48 1.07

Undesired	Total IX	Unique IX, before	Unique IX, after
W15DC-D D15 LD APP	144.4 1,590	143.4 1,579	
WXIV-LD D14 LD LIC	18.8 1,314	18.8 1,314	
WLTX D15 DT LIC	226.0 1,772	225.0 1,761	

Interference to BLANK0000224317 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: W15ES-D	D15	LD	LIC	MYRTLE BEACH, SC	BLANK0000224317	
Undesireds: W15DC-D	D15	LD	APP	FLORENCE, SC		82.1 km
WXIV-LD	D14	LD	LIC	MYRTLE BEACH, SC	BLANK0000216337	37.8
WPHJ-LD	D15+	LD	LIC	BAXLEY, GA	BLANK0000187241	246.4
WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	153.4
W15DO-D	D15	LD	LIC	NORFOLK, VA	BLANK0000120726	334.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
6015.6 149,976	6015.6 149,976	5770.8 146,890	5627.4 145,311	2.48 1.07

Undesired	Total IX	Unique IX, before	Unique IX, after
W15DC-D D15 LD APP	144.4 1,590	143.4 1,579	
WXIV-LD D14 LD LIC	18.8 1,314	18.8 1,314	
WLTX D15 DT LIC	226.0 1,772	225.0 1,761	

Interference to proposal scenario 1

2.45% interference received

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: W15DC-D	D15	LD	APP	FLORENCE, SC		
Undesireds: WPHJ-LD	D15+	LD	LIC	BAXLEY, GA	BLANK0000187241	298.2 km
WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK0000143683	184.0
WILM-LD	D15	LD	LIC	WILMINGTON, NC	BLANK0000055240	108.5

WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	126.0
W15ES-D	D15	LD	LIC	MYRTLE BEACH, SC	BLANK0000194110	73.1
W15DO-D	D15	LD	LIC	NORFOLK, VA	BLANK0000120726	279.8

Service area		Terrain-limited		IX-free	Percent IX
3842.1	98,198	3842.1	98,198	3702.5	95,795 3.63 2.45

Undesired		Total IX		Unique IX	Prcnt Unique IX
WRAZ D15 DT LIC	53.5	892	19.0	315	0.49 0.32
WILM-LD D15 LD LIC	7.1	156	7.1	156	0.18 0.16
WLTX D15 DT LIC	113.5	1,932	79.0	1,355	2.06 1.38

Interference to proposal scenario 2
6.73% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W15DC-D	D15	LD	APP	FLORENCE, SC		
Undesireds:	WPHJ-LD	D15+	LD	LIC	BAXLEY, GA	BLANK0000187241	298.2 km
	WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK0000143683	184.0
	WILM-LD	D15	LD	LIC	WILMINGTON, NC	BLANK0000055240	108.5
	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK0000082085	126.0
	W15ES-D	D15	LD	CP	MYRTLE BEACH, SC	BLANK0000198647	82.1
	W15DO-D	D15	LD	LIC	NORFOLK, VA	BLANK0000120726	279.8

Service area		Terrain-limited		IX-free	Percent IX
3842.1	98,198	3842.1	98,198	3561.3	91,593 7.31 6.73

Undesired		Total IX		Unique IX	Prcnt Unique IX
WRAZ D15 DT LIC	53.5	892	12.0	310	0.31 0.32
WILM-LD D15 LD LIC	7.1	156	7.1	156	0.18 0.16
WLTX D15 DT LIC	113.5	1,932	75.0	1,045	1.95 1.06
W15ES-D D15 LD CP	168.9	4,713	141.3	4,202	3.68 4.28

Interference to proposal scenario 3
6.73% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W15DC-D	D15	LD	APP	FLORENCE, SC		
Undesireds:	WPHJ-LD	D15+	LD	LIC	BAXLEY, GA	BLANK00000187241	298.2 km
	WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK00000143683	184.0
	WILM-LD	D15	LD	LIC	WILMINGTON, NC	BLANK00000055240	108.5
	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK00000082085	126.0
	W15ES-D	D15	LD	LIC	MYRTLE BEACH, SC	BLANK00000224317	82.1
	W15DO-D	D15	LD	LIC	NORFOLK, VA	BLANK00000120726	279.8

Service area		Terrain-limited		IX-free		Percent IX	
3842.1	98,198	3842.1	98,198	3561.3	91,593	7.31	6.73

Undesired		Total IX		Unique IX	Prcnt Unique IX	
WRAZ D15 DT LIC	53.5	892	12.0	310	0.31	0.32
WILM-LD D15 LD LIC	7.1	156	7.1	156	0.18	0.16
WLTX D15 DT LIC	113.5	1,932	75.0	1,045	1.95	1.06
W15ES-D D15 LD LIC	168.9	4,713	141.3	4,202	3.68	4.28