

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Marion15d15kwAER100IncF, Model: Longley-Rice

Start: 2023.10.18 08:44:53

Study created: 2023.10.18 08:44:53

Study build station data: LMS TV 2023-10-17

Proposal: W15DC-D D15 LD APP FLORENCE, SC

Facility ID: 182014

Station data: User record

Record ID: 1906

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	WGGD-LD	D15	LD	LIC	GAINESVILLE, GA	BLDTL20121213AIK	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
Yes	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
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: 104.6 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	75.7 m	37.3 km
45.0	14.0	75.2	41.5
90.0	15.0	77.1	42.1
135.0	15.0	82.3	42.9
180.0	9.96	89.7	41.9
225.0	1.95	91.1	34.0
270.0	0.277	88.2	23.5
315.0	0.170	85.1	20.6

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 83 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: 0.10 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	47952.3 3,796,450	47301.0 3,732,059	47105.4 3,713,483	0.41 0.50

Undesired	Total IX	Unique IX, before	Unique IX, after
W15DC-D D15 LD APP	205.5 18,720	195.5 18,576	
WRDC D14 DT LIC	19.1 2,218	19.1 2,218	
W15EB-D D15 DC LIC	24.9 4,024	7.9 525	
WLTX D15 DT LIC	56.8 2,944	43.8 1,690	
WFDC-DT D15 DT LIC	38.1 391	15.1 40	
WVPT D15 DD LIC	180.7 5,387	139.6 1,914	
WPXU-TV D16 DT LIC	105.3 692	105.3 692	
WXII-TV D16 DT LIC	285.6 55,763	270.5 53,428	

Interference to BLANK0000055240 LIC scenario 1

Call	Chan	Svc	Status	City, State	File Number	Distance
Desired: WILM-LD	D15	LD	LIC	WILMINGTON, NC	BLANK0000055240	
Undesireds: W15DC-D	D15	LD	APP	FLORENCE, SC		108.5 km
WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK0000143683	152.9
W15ES-D	D15	LD	LIC	MYRTLE BEACH, SC	BLANK0000194110	110.9
W15DO-D	D15	LD	LIC	NORFOLK, VA	BLANK0000120726	198.1
WPXU-TV	D16	DT	LIC	JACKSONVILLE, NC	BLANK0000129487	70.6

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
8400.0 394,422	8400.0 394,422	7887.1 384,818	7886.1 384,664	0.01 0.04

Undesired	Total IX	Unique IX, before	Unique IX, after
W15DC-D D15 LD APP	1.0 154	1.0 154	
WRAZ D15 DT LIC	511.9 9,370	511.9 9,370	
WPXU-TV D16 DT LIC	1.0 234	1.0 234	

Interference to BLANK0000082085 LIC scenario 1

Desired:	Call WLTX	Chan D15	Svc DT	Status LIC	City, State COLUMBIA, SC	File Number BLANK0000082085	Distance
Undesireds:	W15DC-D	D15	LD	APP	FLORENCE, SC		126.0 km
	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	34636.0	1,580,796	33496.0	1,513,991	33349.9	1,509,357	0.44 0.31

Undesired				Total IX	Unique IX, before	Unique IX, after
W15DC-D D15 LD APP		257.9		31,428		146.1 4,634
W15EB-D D15 DC LIC		354.5		14,857	297.5 10,889	297.5 10,889
WRAZ D15 DT LIC		564.6		12,611	448.2 7,974	447.2 7,974
WJPM-TV D16 DT LIC		337.3		43,974	277.9 43,305	168.2 16,511

Interference to BLANK0000194110 LIC scenario 1

Desired:	Call W15ES-D	Chan D15	Svc LD	Status LIC	City, State MYRTLE BEACH, SC	File Number BLANK0000194110	Distance
Undesireds:	W15DC-D	D15	LD	APP	FLORENCE, SC		73.1 km
	WXIV-LD	D14	LD	LIC	MYRTLE BEACH, SC	BLANK0000216337	15.7
	WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK0000143683	236.5
	WILM-LD	D15	LD	LIC	WILMINGTON, NC	BLANK0000055240	110.9
	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	132.8	34,095	129.8	33,718	2.24 1.11

Undesired				Total IX	Unique IX, before	Unique IX, after
W15DC-D D15 LD APP		6.9		616		3.0 377
WXIV-LD D14 LD LIC		5.9		899	4.0 660	1.0 627
WRAZ D15 DT LIC		2.0		239	0.0 0	0.0 0
WILM-LD D15 LD LIC		1.0		330	1.0 330	1.0 330

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
	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		5782.7 146,982	5618.5 144,973	2.84 1.37
Undesired				Total IX	Unique IX, before	Unique IX, after	
W15DC-D D15 LD APP		165.1		2,077		164.1 2,009	
WXIV-LD D14 LD LIC		17.8		1,307	17.8 1,307	17.8 1,307	
WLTX D15 DT LIC		215.1		1,687	215.1 1,687	214.1 1,619	

Interference to proposal scenario 1
3.13% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W15DC-D	D15	LD	APP	FLORENCE, SC		
Undesireds:	WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK0000143683	184.0 km
	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	
	4132.4 107,097		4132.4 107,097		3962.0 103,748	4.12 3.13	
Undesired				Total IX	Unique IX	Prcnt Unique IX	
WRAZ D15 DT LIC		64.4		831	17.0 186	0.41 0.17	

WILM-LD D15 LD LIC	14.1	290	14.1	290	0.34	0.27
WLTX D15 DT LIC	139.2	2,873	91.8	2,228	2.22	2.08

Interference to proposal scenario 2
9.06% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W15DC-D	D15	LD	APP	FLORENCE, SC		
Undesireds:	WRAZ	D15	DT	LIC	RALEIGH, NC	BLANK00000143683	184.0 km
	WILM-LD	D15	LD	LIC	WILMINGTON, NC	BLANK00000055240	108.5
	WLTX	D15	DT	LIC	COLUMBIA, SC	BLANK00000082085	126.0
	W15ES-D	D15	LD	CP	MYRTLE BEACH, SC	BLANK00000198647	82.1
	W15DO-D	D15	LD	LIC	NORFOLK, VA	BLANK00000120726	279.8

Service area	Terrain-limited	IX-free	Percent IX
4132.4 107,097	4132.4 107,097	3792.1 97,393	8.23 9.06

Undesired	Total IX	Unique IX	Prcnt Unique IX
WRAZ D15 DT LIC	64.4 831 12.0	119	0.29 0.11
WILM-LD D15 LD LIC	14.1 290 14.1	290	0.34 0.27
WLTX D15 DT LIC	139.2 2,873 88.9	1,329	2.15 1.24
W15ES-D D15 LD CP	196.6 7,510 169.9	6,355	4.11 5.93