

INTERFERENCE ANALYSIS FOR PROPOSED W30ER-D, CHANNEL 30, 15 KW (MAX-DA), 284.7 M AMSL

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: w30er765, Model: Longley-Rice

Study build station data: LMS TV 2023-03-19

Proposal: W30ER765 D30 LD APP WILMINGTON, NC

File number: w30er765

Facility ID: 182341

Station data: User record

Record ID: 5056

Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	DW22CJ	N22-	TX	APP	JACKSONVILLE, NC	BLTT19990629JD	88.4 km
No	WUND-TV	D29	DT	LIC	EDENTON, NC	BLANK0000132286	245.1
No	WNCB-LD	D29	LD	LIC	FAYETTEVILLE, NC	BLANK0000107110	105.9
No	WSFX-TV	D29	DT	LIC	WILMINGTON, NC	BLANK0000111706	21.4
No	WSFX-TV	D29	DT	CP	WILMINGTON, NC	BLANK0000207372	21.4
No	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLANK0000158591	224.9
No	WRJA-TV	D29	DT	LIC	SUMTER, SC	BLANK0000153954	194.2
No	WAGT-CD	D30	DC	LIC	AUGUSTA, GA	BLANK0000063630	347.9
No	W30EF-D	D30	LD	LIC	JEFFERSON, NC	BLANK0000107212	379.2
No	WAXN-TV	D30	LD	LIC	KANNAPOLIS, NC	BLANK0000119096	260.3
Yes	WUNU	D30	DT	LIC	LUMBERTON, NC	BLANK0000114990	91.6
No	W30DN-D	D30	LD	LIC	MANTEO, NC	BLDTL20150311AAK	290.6
No	WHIG-CD	D30	DC	LIC	ROCKY MOUNT, NC	BLANK0000180530	180.4
No	WHIG-CD	D30	DC	CP	ROCKY MOUNT, NC	BLANK0000186196	180.3
No	WLOW-LD	D30	LD	CP	Charleston, SC	BLANK0000157610	229.0
No	WLOW-LD	D30	LD	LIC	Charleston, SC	BLANK0000207324	229.0
No	WLOW-LD	D30	LD	LIC	Charleston, SC	BLANK0000118486	253.7
No	WYFF	D30	DT	LIC	GREENVILLE, SC	BLANK0000190317	409.5
No	W30CV-D	D30	DC	LIC	HILTON HEAD ISLAND, SC	BLANK0000194091	337.2
No	WFWG-LD	D30	LD	LIC	RICHLAND, VA	BLANK0000080886	359.2
No	WDBJ	D30	DT	LIC	ROANOKE, VA	BLANK0000199694	363.7
No	WGHP	D31	DT	LIC	HIGH POINT, NC	BLANK0000158670	221.4
No	WTWL-LD	D31	LD	LIC	WILMINGTON, NC	BLANK0000179362	21.4
Yes	WTWL-LD	D31	LD	CP	WILMINGTON, NC	BLANK0000198232	30.0
No	WFDY-LD	D31	LD	LIC	MYRTLE BEACH, SC	BLANK0000163451	110.3
No	WKTC	D31	DT	LIC	SUMTER, SC	BLANK0000093003	234.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D30

Mask: Full Service

Latitude: 34 19 17.20 N (NAD83)

Longitude: 78 13 41.40 W

Height AMSL: 284.7 m

HAAT: 272.0 m

Peak ERP: 15.0 kW

Antenna: ERI-ETU2U1-ESC5-30 (ID 1010522) 110.0 deg

Elev Pattn: Generic

Elec Tilt: 1.50

50.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.078 kW	278.3 m	27.0 km
45.0	0.567	282.5	37.7
90.0	11.1	272.1	53.1
135.0	9.18	268.2	51.9
180.0	0.311	267.0	33.8
225.0	0.098	267.9	27.9
270.0	0.039	267.0	23.0
315.0	0.024	269.5	20.7

Distance to Canadian border: 895.1 km

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Distance to Mexican border: 2017.6 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 12.7 degrees Distance: 552.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 293.1 degrees Distance: 2464.3 km

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 BLANK0000114990 LIC scenario 1

****IX: 0.91% interference caused**

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WUNU	D30	DT	LIC	LUMBERTON, NC	BLANK0000114990	
Undesireds:	W30ER765	D30	LD	APP	WILMINGTON, NC	w30er765	91.6 km
	WSFX-TV	D29	DT	LIC	WILMINGTON, NC	BLANK0000111706	107.9
	WXLV-TV	D29	DT	LIC	WINSTON-SALEM, NC	BLANK0000158591	138.3
	WHIG-CD	D30	DC	LIC	ROCKY MOUNT, NC	BLANK0000180530	167.9
	WYFF	D30	DT	LIC	GREENVILLE, SC	BLANK0000190317	326.3
	WDBJ	D30	DT	LIC	ROANOKE, VA	BLANK0000199694	284.6
	WGHP	D31	DT	LIC	HIGH POINT, NC	BLANK0000158670	134.0

	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	25563.7	1,202,188	25378.3	1,200,904	24419.7
					1,166,347
					23433.1
					1,155,749
					4.04
					0.91

Undesired	Total IX	Unique IX, before	Unique IX, after
W30ER765 D30 LD APP	1028.9	11,596	986.6
WSFX-TV D29 DT LIC	43.3	998	1.0
WXLV-TV D29 DT LIC	206.9	6,131	9.0
WHIG-CD D30 DC LIC	5.0	57	1.0
WYFF D30 DT LIC	172.7	2,283	58.0
WDBJ D30 DT LIC	703.1	30,395	289.2
WGHP D31 DT LIC	465.3	21,472	118.3

There is an interference consent agreement with the licensee of WUNU. See interference consent agreement attachment to the instant application.

Interference to BLANK0000198232 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTWL-LD	D31	LD	CP	WILMINGTON, NC	BLANK0000198232	
Undesireds:	W30ER765	D30	LD	APP	WILMINGTON, NC	w30er765	30.0 km
	Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX		
	5290.7	311,380	5290.7	311,380	5290.7	311,380	0.02
					5289.7	311,364	0.01
Undesired	Total IX	Unique IX, before	Unique IX, after				
W30ER765 D30 LD APP	1.0	16	1.0	16			
