Study created: 2021.08.27 13:47:55

Study build station data: LMS TV 2021-08-25

Proposal: WACN-LD D34z LD LIC RALEIGH, NC
File number: BLANK0000157406
Facility ID: 70110
Station data: User record
Record ID: 1243
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	DW19CA	N19-	TX	APP	LUMBERTON, NC	BLTT19961112JH	132.0 km
No	WJGC-LD	D33	LD	CP	JACKSONVILLE, NC	BLANK0000148623	179.1
No	WTNG-CD	D33	DC	LIC	LUMBERTON-PEMBROKE, NC	BLANK0000081109	152.1
No	W33EI-D	D33	LD	LIC	RALEIGH, NC	BLANK0000125022	53.8
Yes	WUNL-TV	D33	DT	LIC	WINSTON-SALEM, NC	BLANK0000121301	108.1
No	WRLK-TV	D33	DT	LIC	COLUMBIA, SC	BLANK0000111852	266.4
No	W33AD	D33	LD	CP	CONCORD, VA	BLANK0000152263	143.2
No	W33AD	N33	TX	LIC	CONCORD, VA	BLTTL19821108IO	143.5
No	WTVZ-TV	D33	DT	CP	NORFOLK, VA	BLANK0000117232	257.4
No	WTVZ-TV	D33	DT	LIC	NORFOLK, VA	BLANK0000125150	257.4
No	WRC-TV	D34	DT	LIC	WASHINGTON, DC	BLANK0000079826	371.4
No	WRC-TV	D34	DT	LIC	WASHINGTON, DC	BLANK0000153860	371.4
No	WPEM-LD	D34	LD	LIC	LUMBERTON, NC	BLANK0000121677	155.6
No	WPEM-LD	D34	LD	CP	LUMBERTON, NC	BLANK0000124896	155.6
No	W34FH-D	D34	LD	LIC	MARION, ETC., NC	BLANK0000086808	210.5
No	WYBE-CD	D34	DC	LIC	PINEHURST, NC	BLANK0000080833	101.4
No	W34EP-D	D34	LD	LIC	SAPPHIRE VALLEY,ETC., NC	BLANK0000119380	324.2
Yes	WITN-TV	D34	DT	LIC	WASHINGTON, NC	BLANK0000091433	183.1
No	W34DX-D	D34	LD	LIC	WEST ASHEVILLE, NC	BLDTT20130530AGK	314.9
No	WIDO-LD	D34	LD	CP	WILMINGTON, NC	BLANK0000071898	211.7
No	WIDO-LD	D34	LD	APP	WILMINGTON, NC	BLANK0000157775	211.7
No	WGWG	D34	DT	LIC	CHARLESTON, SC	BLCDT20060630ADJ	351.7
No	WNSC-TV	D34	DT	LIC	ROCK HILL, SC	BLANK0000105822	211.7
No	WVLT-TV	D34	DT	LIC	KNOXVILLE, TN	BLANK0000081956	424.9
No	W34EV-D	D34	LD	CP	CROZET, VA	BLANK0000008300	228.1
No	WHSV-TV	D34	LD	LIC	Massanutten, VA	BLANK0000120242	261.9
No	WJHJ-LP	D34+	LD	CP	NEWPORT NEWS, ETC., VA	BLANK0000054621	271.8
No	WZTD-LD	D34	LD	LIC	RICHMOND, VA	BLANK0000093220	216.5
Yes	WSLS-TV	D34	DT	LIC	ROANOKE, VA	BLANK0000081215	150.5

No	WNPB-TV	D34	DT	LIC	MORGANTOWN, WV	BLANK0000106559	406.2
No	W51EG-D	D34	LD	CP	PARKERSBURG, WV	BLANK0000073090	402.6
No	WFMY-TV	D35	DT	LIC	GREENSBORO, NC	BLANK0000113927	59.1
No	W35DW-D	D35	LD	CP	GREENVILLE, NC	BLANK0000138317	181.4
No	WCYB-TV	D35	DT	CP	BRISTOL, VA	BLANK0000153389	261.5
No	WVIR-CD	D35	DC	LIC	CHARLOTTESVILLE, VA	BLANK0000091348	223.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D34z
       Mask: Full Service
   Latitude:  36  3 56.00 N (NAD83)
  Longitude:  79 13 45.00 W
Height AMSL: 260.0 m
       HAAT: 0.0 m
   Peak ERP: 1.10 kW
    Antenna: SAM-SAM-460 (ID 1004146) 110.0 deg
Elev Pattrn: Generic
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50.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.000 kW	58.5 m	2.5 km
45.0	0.000	60.3	2.6
90.0	0.524	78.9	23.5
135.0	0.303	67.3	19.1
180.0	0.000	83.0	2.9
225.0	0.000	84.5	2.9
270.0	0.000	80.4	2.9
315.0	0.000	68.2	2.7

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 73 m

Distance to Canadian border: 681.1 km

Distance to Mexican border: 2019.3 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 30.9 degrees Distance: 404.5 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 289.1 degrees Distance: 2309.6 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%

---- Below is IX received by proposal BLANK0000157406 ----

Proposal receives 50.52% interference from scenario 1
No IX check failures found.