

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WYAT MINOR MOD, Model: Longley-Rice
Start: 2023.09.22 13:48:09

Study created: 2023.09.22 13:48:09

Study build station data: LMS TV 2023-09-16

Proposal: WYAT-LD D25z LD LIC MARTINSVILLE, VA
File number: WYAT MINOR MOD
Facility ID: 61258
Station data: User record
Record ID: 185
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	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	188.4 km
No	W24CP-D	D24	LD	LIC	DURHAM, NC	BLANK0000004266	112.8
No	WUBX-CD	D24	DC	LIC	DURHAM, ETC., NC	BLANK0000108883	125.3
No	WRLH-TV	D24	DT	LIC	RICHMOND, VA	BLANK0000186907	223.0
No	WVAH-TV	D24	DT	LIC	CHARLESTON, WV	BLANK0000167888	259.9
No	W25FP-D	D25	LD	CP	YOUNG HARRIS, GA	BLANK0000162659	395.8
No	WUPX-TV	D25	DT	LIC	RICHMOND, KY	BLANK0000075153	440.3
No	WNUV	D25	DT	LIC	BALTIMORE, MD	BLANK0000136472	408.9
No	WNUV	D25	DD	CP	BALTIMORE, MD	BLANK0000214278	408.9
No	W42CK	D25+	LD	CP	HAGERSTOWN, MD	BLANK0000197497	373.3
Yes	WJZY	D25	DT	LIC	BELMONT, NC	BLANK0000146872	186.2
Yes	WUNK-TV	D25	DT	LIC	GREENVILLE, NC	BLANK0000143143	242.0
No	KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	422.6
No	WCIV	D25	DT	LIC	CHARLESTON, SC	BLANK0000184940	417.6
No	WZRB	D25	DT	LIC	COLUMBIA, SC	BLANK0000081456	310.9
No	W25FQ-D	D25	LD	LIC	FLORENCE, SC	BLANK0000215753	269.6
No	W25FQ-D	D25	LD	CP	FLORENCE, SC	BLANK0000219522	282.9
No	DDWDL-LP	D25+	LD	APP	PIGEON FORGE, TN	BLANK0000139392	351.8
No	WVAD-LD	D25	LD	LIC	CHESAPEAKE, VA	BLDTL20121214ABD	322.2
No	WHSV-TV	D25	LD	CP	HARRISONBURG, VA	BLANK0000177269	259.9
No	WHSV-TV	D25	LD	LIC	HARRISONBURG, VA	BLANK0000218406	259.9
No	WWBK-LD	D25	LD	LIC	RICHMOND, VA	BLANK0000108657	223.0
Yes	WLFBS	D25	DT	LIC	BLUEFIELD, WV	BLANK0000123625	134.0
No	W25FS-D	D25	LD	LIC	CLARKSBURG, WV	BLANK0000197391	292.4
No	W25FR-D	D25	LD	LIC	CLARKSBURG, WV	BLANK0000199127	321.4
No	W25FX-D	D25	LD	LIC	SUTTON, WV	BLANK0000179361	230.4
Yes	WGPX-TV	D26	DT	LIC	BURLINGTON, NC	BLANK0000081829	91.6
No	WHEH-LD	D26	LD	LIC	LUMBERTON, NC	BLANK0000073372	175.3
No	W26FA-D	D26	LD	LIC	MARION, NC	BLANK0000074929	182.4
No	WARZ-LD	D26	LD	LIC	SMITHFIELD, NC	BLANK0000160116	193.1
No	WMMB	D26	DT	LIC	FLORENCE, SC	BLANK0000119979	263.6
No	WHTJ	D26	DT	LIC	CHARLOTTESVILLE, VA	BLANK0000112378	190.2
No	DW33AD	N33	TX	APP	CONCORD, VA	BLTTL19821108IO	108.2

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D25z
Mask: Stringent
Latitude: 36 41 36.00 N (NAD83)
Longitude: 79 53 52.00 W
Height AMSL: 307.8 m
HAAT: 34.7 m
Peak ERP: 15.0 kW
Antenna: Omnidirectional
Elev Pattern: Generic

49.9 dBu contour:
Azimuth ERP HAAT Distance
0.0 deg 15.0 kW -15.7 m 30.5 km
45.0 15.0 17.1 30.5
90.0 15.0 51.5 36.5
135.0 15.0 82.0 41.7
180.0 15.0 49.0 35.8
225.0 15.0 29.4 30.5
270.0 15.0 20.2 30.5
315.0 15.0 44.4 34.6

Distance to Canadian border: 594.2 km

Distance to Mexican border: 2002.7 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 43.5 degrees Distance: 385.0 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 287.6 degrees Distance: 2230.8 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 BLANK0000146872 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WJZY	D25	DT	LIC	BELMONT, NC	BLANK0000146872	
Undesireds:	WYAT-LD	D25z	LD	LIC	MARTINSVILLE, VA	WYAT MINOR MOD	186.2 km
	WCNC-TV	D24	DT	LIC	CHARLOTTE, NC	BLANK0000147158	2.2
	WATL	D25	DT	LIC	ATLANTA, GA	BLCDT20020716AAH	338.8
	WUNK-TV	D25	DT	LIC	GREENVILLE, NC	BLANK0000143143	322.4
	WCIV	D25	DT	LIC	CHARLESTON, SC	BLANK0000184940	300.8
	WZRB	D25	DT	LIC	COLUMBIA, SC	BLANK0000081456	147.2
	WYHB-CD	D25	DC	LIC	CHATTANOOGA, TN	BLANK0000102891	374.5
	WLFB	D25	DT	LIC	BLUEFIELD, WV	BLANK0000123625	206.7
	WGPX-TV	D26	DT	LIC	BURLINGTON, NC	BLANK0000081829	131.6
	WMMB	D26	DT	LIC	FLORENCE, SC	BLANK0000119979	199.8
	WNEH	D26	DT	LIC	GREENWOOD, SC	BLANK0000153952	143.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
46257.4		4,428,776		4,299,491		4,191,316	0.02
Undesired		Total IX		Unique IX, before		Unique IX, after	
WYAT-LD D25z LD LIC		37.2		3,148		20.2	1,039
WCNC-TV D24 DT LIC		153.6		4,197		130.5	3,828
WATL D25 DT LIC		66.1		10,348		29.0	6,817
WUNK-TV D25 DT LIC		383.5		15,562		114.5	3,583
WCIV D25 DT LIC		511.4		9,206		86.1	2,455
WZRB D25 DT LIC		1900.5		27,997		1502.0	20,476
WLFB D25 DT LIC		139.0		11,371		84.0	8,132
WGPX-TV D26 DT LIC		350.5		46,256		228.5	35,688
WMMB D26 DT LIC		186.5		4,972		39.1	1,671
WNEH D26 DT LIC		62.3		4,280		41.2	2,127

Interference to BLANK0000143143 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUNK-TV	D25	DT	LIC	GREENVILLE, NC	BLANK0000143143	
Undesireds:	WYAT-LD	D25z	LD	LIC	MARTINSVILLE, VA	WYAT MINOR MOD	242.0 km
	WUBX-CD	D24	DC	LIC	DURHAM, ETC., NC	BLANK0000108883	119.3
	WWAY	D24	DT	LIC	WILMINGTON, NC	BLANK0000218937	166.8
	WJZY	D25	DT	LIC	BELMONT, NC	BLANK0000146872	322.4
	WCIV	D25	DT	LIC	CHARLESTON, SC	BLANK0000184940	348.3
	WLFB	D25	DT	LIC	BLUEFIELD, WV	BLANK0000123625	375.8
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
33894.3		1,992,257		1,983,449		1,959,118	0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WYAT-LD D25z LD LIC		3.0		1,536		0.0	0
WUBX-CD D24 DC LIC		5.1		1,029		2.0	698
WWAY D24 DT LIC		337.0		3,670		317.0	3,140
WJZY D25 DT LIC		112.0		20,475		81.0	17,856
WCIV D25 DT LIC		36.0		770		4.0	16
WLFB D25 DT LIC		1.0		0		0.0	0

Interference to BLANK0000123625 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLFB	D25	DT	LIC	BLUEFIELD, WV	BLANK0000123625	
Undesireds:	WYAT-LD	D25z	LD	LIC	MARTINSVILLE, VA	WYAT MINOR MOD	134.0 km
	WVAH-TV	D24	DT	LIC	CHARLESTON, WV	BLANK0000167888	143.8
	WUPX-TV	D25	DT	LIC	RICHMOND, KY	BLANK0000075153	308.5
	WJZY	D25	DT	LIC	BELMONT, NC	BLANK0000146872	206.7
	WUNK-TV	D25	DT	LIC	GREENVILLE, NC	BLANK0000143143	375.8
	KDKA-TV	D25	DT	LIC	PITTSBURGH, PA	BLCDT20041004ACS	379.3
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
29432.5		798,771		690,390		675,411	0.10
Undesired		Total IX		Unique IX, before		Unique IX, after	
WYAT-LD D25z LD LIC		50.2		1,337		25.1	704
WVAH-TV D24 DT LIC		223.2		1,598		169.7	1,304
WUPX-TV D25 DT LIC		106.6		1,668		74.3	1,574
WJZY D25 DT LIC		419.8		11,012		367.5	10,054
WUNK-TV D25 DT LIC		6.0		141		0.0	0
KDKA-TV D25 DT LIC		56.5		600		29.2	306

Interference to BLANK0000081829 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WGPX-TV	D26	DT	LIC	BURLINGTON, NC	BLANK0000081829	
Undesireds:	WYAT-LD	D25z	LD	LIC	MARTINSVILLE, VA	WYAT MINOR MOD	91.6 km
	WJZY	D25	DT	LIC	BELMONT, NC	BLANK0000146872	131.6
	WMMB	D26	DT	LIC	FLORENCE, SC	BLANK0000119979	173.4
	WNEH	D26	DT	LIC	GREENWOOD, SC	BLANK0000153952	269.3
	WHTJ	D26	DT	LIC	CHARLOTTESVILLE, VA	BLANK0000112378	264.0
	WGFB-CD	D27	DC	LIC	CHARLOTTE, NC	BLANK0000120552	131.6
	WPDE-TV	D27	DT	LIC	FLORENCE, SC	BLANK0000120367	173.4

WPXR-TV	D27	DT	LIC	ROANOKE, VA	BLANK0000081460	150.2			
Service area			Terrain-limited	IX-free, before	IX-free, after	Percent New IX			
25442.4	2,767,773	25144.3	2,756,103	24098.8	2,650,747	24015.5	2,639,366	0.35	0.43
Undesired			Total IX	Unique IX, before	Unique IX, after				
WYAT-LD D25z LD LIC	115.4		13,892		83.3		11,381		
WJZY D25 DT LIC	398.6		66,810	338.8	60,789	338.8	60,789		
WMMB D26 DT LIC	637.5		40,494	534.7	32,180	531.7	32,132		
WNEH D26 DT LIC	55.8		2,615	5.0	186	5.0	186		
WHTJ D26 DT LIC	25.1		2,068	7.0	170	7.0	170		
WGTB-CD D27 DC LIC	27.8		3,070	0.0	0	0.0	0		
WPDE-TV D27 DT LIC	1.0		0	0.0	0	0.0	0		
WPXR-TV D27 DT LIC	55.2		3,715	44.1	2,701	21.1	1,042		

Interference to proposal scenario 1
5.60% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WYAT-LD	D25z	LD	LIC	MARTINSVILLE, VA	WYAT MINOR MOD	
Undesireds:	WJZY	D25	DT	LIC	BELMONT, NC	BLANK0000146872	186.2 km
	WUNK-TV	D25	DT	LIC	GREENVILLE, NC	BLANK0000143143	242.0
	W25FQ-D	D25	LD	LIC	FLORENCE, SC	BLANK0000215753	269.6
	WLFB	D25	DT	LIC	BLUEFIELD, WV	BLANK0000123625	134.0
	WGPX-TV	D26	DT	LIC	BURLINGTON, NC	BLANK0000081829	91.6

Service area		Terrain-limited		IX-free	Percent IX		
3446.2	149,674	3121.4	140,973	2834.4	133,079	9.19	5.60
Undesired		Total IX		Unique IX	Prcnt Unique IX		
WJZY D25 DT LIC	209.7	5,626	135.4	4,101	4.34	2.91	
WUNK-TV D25 DT LIC	72.2	1,344	17.1	488	0.55	0.35	
WLFB D25 DT LIC	110.4	2,920	53.2	1,654	1.71	1.17	
WGPX-TV D26 DT LIC	1.0	39	0.0	0	0.00	0.00	