

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: WWLM-CD ANT CHG, Model: Longley-Rice
Start: 2022.04.01 19:27:43

Study created: 2022.04.01 19:27:43

Study build station data: LMS TV 2022-03-11

Proposal: WWLM-CD D36 DC APP WASHINGTON, PA
File number: WWLM-CD ANT CHG
Facility ID: 267
Station data: User record
Record ID: 827
Country: U.S.

Build options:
Protect LPTV records from Class A

Search options:
Non-U.S. records included
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	WIIC-LD	N29+	TX	LIC	PITTSBURGH, PA	BLTTTL19981230JB	36.4 km
No	WVIZ	D35	DT	LIC	Cleveland, OH	BLANK0000082429	180.9
Yes	WJAC-TV	D35	DT	LIC	JOHNSTOWN, PA	BLANK0000080232	107.9
No	WTAP-TV	D35	DT	LIC	PARKERSBURG, WV	BLANK0000105709	147.3
No	W35DI-D	D35	LD	LIC	ROANOKE, WV	BLANK0000179439	99.3
No	WTTG	D36	DT	LIC	WASHINGTON, DC	BLANK0000152125	300.6
No	WODP-LD	D36	LD	LIC	FORT WAYNE, IN	BLANK0000087022	426.4
No	WKAS	D36	DT	LIC	ASHLAND, KY	BLANK0000087441	281.1
No	WAQP	D36	DT	LIC	SAGINAW, MI	BLANK0000096188	462.6
No	WNLO	D36	DT	LIC	BUFFALO, NY	BLANK0000137113	305.3
No	WSPX-TV	D36	DT	LIC	SYRACUSE, NY	BLANK0000081964	464.9
No	WQHS-DT	D36	DT	LIC	CLEVELAND, OH	BLANK0000079885	181.3
No	WRGT-TV	D36	DT	LIC	DAYTON, OH	BLANK0000113865	346.6
No	WMNT-CD	D36	DC	LIC	TOLEDO, OH	BLANK0000067041	321.2
No	W36FK-D	D36+	LD	LIC	Altoona, PA	BLANK0000164321	132.6
No	W36EY-D	D36-	DC	LIC	BERWICK, PA	BLANK0000105623	351.0
No	W36EK-D	D36	LD	CP	ERIE, PA	BNPDTL20091231ABU	205.9
No	WITF-TV	D36	DT	CP	HARRISBURG, PA	BLANK0000035782	285.7
No	WITF-TV	D36	DT	LIC	HARRISBURG, PA	BLANK0000039358	285.7
No	DW36BE-D	D36	LD	APP	STATE COLLEGE, PA	BLDTT20091023AIW	206.5
No	WSVF-CD	D36	DC	LIC	HARRISONBURG, VA	BLANK0000120243	236.0
No	WRID-LD	D36	LD	CP	RICHMOND, VA	BLANK0000160252	380.4
No	WRID-LD	D36	LD	LIC	RICHMOND, VA	BLANK0000152708	374.7
No	WFXR	D36	DT	LIC	ROANOKE, VA	BLANK0000080996	332.8
No	W33EM-D	N43-	TX	LIC	Pittsburgh, PA	BLTT19981124JI	132.4

Non-directional AM stations within 0.8 km:
WJPA 1450 L ND1 U WASHINGTON, PA BL19830913AJ

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D36
Mask: Full Service
Latitude: 40 11 24.00 N (NAD83)
Longitude: 80 13 55.00 W
Height AMSL: 454.9 m
HAAT: 0.0 m
Peak ERP: 15.0 kW
Antenna: KAT 2x2 UTVS-01 0.0 deg
Elev Pattn: Generic
Elec Tilt: 0.70

50.9 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.021 kW	109.7 m	12.1 km
45.0	0.197	118.8	22.4
90.0	7.78	107.0	40.4
135.0	8.95	89.8	39.1
180.0	7.82	91.9	38.7

225.0	11.0	84.7	39.4
270.0	0.434	88.0	23.4
315.0	0.040	89.4	12.9

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 97 m

Proposal 25.86 dBu contour does not cross Canadian border
Distance to Canadian border: 239.7 km

Distance to Mexican border: 2209.0 km

Conditions at FCC monitoring station: Laurel MD
Bearing: 110.2 degrees Distance: 313.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 278.0 degrees Distance: 2115.7 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 BLANK0000080232 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WJAC-TV	D35	DT	LIC	JOHNSTOWN, PA	BLANK0000080232			
Undesireds:	WWLM-CD	D36	DC	BL	WASHINGTON, PA	DTVBL267	107.9 km		
	WWLM-CD	D36	DC	APP	WASHINGTON, PA	WWLM-CD ANT CHG	107.9		
	WNPB-TV	D34	DT	LIC	MORGANTOWN, WV	BLANK0000106559	100.2		
	WENY-TV	D35	DT	LIC	ELMIRA, NY	BLANK0000104138	253.1		
	WVIZ	D35	DT	LIC	Cleveland, OH	BLANK0000082429	253.9		
	WPXW-TV	D35	DT	LIC	MANASSAS, VA	BLANK0000098055	224.2		
	WTAP-TV	D35	DT	LIC	PARKERSBURG, WV	BLANK0000105709	247.9		
	WITF-TV	D36	DT	CP	HARRISBURG, PA	BLANK0000035782	179.0		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
29163.5 2,212,117		24820.2 1,927,184		24036.9 1,832,599		24070.9 1,837,072	-0.14 -0.24		
Undesired				Total IX	Unique IX, before	Unique IX, after			
WWLM-CD D36 DC BL	74.2			5,737	34.1	4,473			
WWLM-CD D36 DC APP	2.0			0		0.0	0		
WNPB-TV D34 DT LIC	127.3			4,609	73.1	1,946	77.1 1,958		
WENY-TV D35 DT LIC	71.1			2,021	42.0	536	42.0 536		
WVIZ D35 DT LIC	127.4			41,752	34.2	12,283	38.2 12,643		
WPXW-TV D35 DT LIC	409.6			28,225	352.7	9,144	353.7 9,153		
WTAP-TV D35 DT LIC	196.2			58,102	75.1	26,209	83.1 26,590		
WITF-TV D36 DT CP	1.0			0	0.0	0	0.0 0		

Interference to BLANK0000080232 LIC scenario 2

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance		
	WJAC-TV	D35	DT	LIC	JOHNSTOWN, PA	BLANK0000080232			
Undesireds:	WWLM-CD	D36	DC	BL	WASHINGTON, PA	DTVBL267	107.9 km		
	WWLM-CD	D36	DC	APP	WASHINGTON, PA	WWLM-CD ANT CHG	107.9		
	WNPB-TV	D34	DT	LIC	MORGANTOWN, WV	BLANK0000106559	100.2		
	WENY-TV	D35	DT	LIC	ELMIRA, NY	BLANK0000104138	253.1		
	WVIZ	D35	DT	LIC	Cleveland, OH	BLANK0000082429	253.9		
	WPXW-TV	D35	DT	LIC	MANASSAS, VA	BLANK0000098055	224.2		
	WTAP-TV	D35	DT	LIC	PARKERSBURG, WV	BLANK0000105709	247.9		
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX		
29163.5 2,212,117		24820.2 1,927,184		24036.9 1,832,599		24070.9 1,837,072	-0.14 -0.24		
Undesired				Total IX	Unique IX, before	Unique IX, after			
WWLM-CD D36 DC BL	74.2			5,737	34.1	4,473			
WWLM-CD D36 DC APP	2.0			0		0.0	0		

WNPB-TV D34 DT LIC	127.3	4,609	73.1	1,946	77.1	1,958
WENY-TV D35 DT LIC	71.1	2,021	42.0	536	42.0	536
WVIZ D35 DT LIC	127.4	41,752	34.2	12,283	38.2	12,643
WPXW-TV D35 DT LIC	409.6	28,225	353.7	9,144	354.7	9,153
WTAP-TV D35 DT LIC	196.2	58,102	75.1	26,209	83.1	26,590

Interference to proposal scenario 1
1.97% interference received

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WWLM-CD	D36	DC	APP	WASHINGTON, PA	WWLM-CD ANT CHG	
Undesireds:	WQHS-DT	D36	DT	LIC	CLEVELAND, OH	BLANK0000079885	181.3 km
	WITF-TV	D36	DT	CP	HARRISBURG, PA	BLANK0000035782	285.7
	Service area		Terrain-limited		IX-free	Percent IX	
	3005.0	327,060	2724.9	285,215	2645.5	279,599	2.91 1.97
Undesired				Total IX		Unique IX	Prcnt Unique IX
WQHS-DT D36 DT LIC		79.4		5,616	79.4	5,616	2.91 1.97