

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Quarry31d1kwTUA160T, Model: Longley-Rice

Start: 2021.06.02 10:33:24

Study created: 2021.06.02 10:33:24

Study build station data: LMS TV 2021-06-02

Proposal: W31FC-D D31 LD APP Mansfield, PA

Facility ID: 187456

Station data: User record

Record ID: 2358

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	WHVL-LP	N29+	TX	LIC	STATE COLLEGE, ETC., PA	BLTTTL19911123JH	106.1 km
Yes	WYDC	D30	DT	LIC	CORNING, NY	BLANK0000086927	58.1
No	WYNB-LD	D30	LD	LIC	ELLENVILLE, NY	BLANK0000116043	229.0
No	WBUO-LD	N30+	TX	LIC	OLEAN, NY	BLTT20020307ABR	118.4
No	WBUO-LD	D30	LD	LIC	OLEAN, NY	BLANK0000120315	147.2
No	WBUO-LD	D30	LD	APP	OLEAN, NY	BLANK0000130314	173.9
No	WAWW-LP	D30-	LD	CP	ROCHESTER, NY	BLANK0000054618	172.8
No	WAWW-LP	D30-	LD	APP	ROCHESTER, NY	BLANK0000144377	172.8
No	WUTR	D30	DT	LIC	UTICA, NY	BLCDDT20040217ADC	232.3
No	WCZS-LD	D30	LD	LIC	Chambersburg, PA	BLANK0000141136	183.2
No	W43CO-D	D30	LD	CP	KINGSTON, PA	BLANK0000054197	107.4
No	KYW-TV	D30	DT	LIC	PHILADELPHIA, PA	BLANK0000129344	235.5
No	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	355.5
No	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	296.8
No	WETA-TV	D31	LD	CP	WASHINGTON, DC	BDRTEDT20090811ACE	275.6
No	WPPX-TV	D31	DT	LIC	WILMINGTON, DE	BLCDDT20031203AFL	235.9
No	WNDR-LD	D31	LD	CP	AUBURN, NY	BDCCDTL20110901ACT	154.2
No	WSKG-TV	D31	DT	LIC	BINGHAMTON, NY	BLANK0000116396	108.3

No	WNED-TV	D31	DT	LIC	BUFFALO, NY	BLANK0000107983	216.0
No	W31BP	D31+	LD	CP	BURLINGTON, ETC., NY	BLANK0000054409	202.7
No	W31BP	N31+	TX	LIC	BURLINGTON, ETC., NY	BLTTTL19980120JE	202.7
No	WNCE-CD	D31	DC	LIC	GLENS FALLS, NY	BLDTA20100812ABN	332.7
No	WZPK-LD	D31	LD	LIC	HIGHLAND, NY	BLANK0000113730	229.0
No	WHTV-LD	D31+	LD	CP	PORT JERVIS, NY	BLANK0000144262	280.1
No	W31EF-D	D31+	LD	LIC	PORT JERVIS, NY	BLANK0000049440	256.1
No	WWTI	D31	DT	LIC	WATERTOWN, NY	BLANK0000079855	275.6
No	WYTV	D31	DT	LIC	YOUNGSTOWN, OH	BLANK0000081168	301.5
Yes	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	161.6
No	WWBP-LP	N31+	TX	LIC	FREEDOM, PA	BLTTTL20040909ABD	282.2
No	WWBP-LP	D31	LD	APP	FREEDOM, PA	BDFCDTL20121022ACD	273.3
No	WTXF-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	235.9
No	WIIC-LD	D31+	LD	LIC	PITTSBURGH, PA	BLANK0000001503	272.4
No	KDKA-TV	D31	LD	APP	PITTSBURGH, PA	BDRTCDDT20090630ADY	309.3
No	WNDR-LD	D32	LD	APP	AUBURN, NY	BLANK0000139140	154.2
No	WUTV	D32	DT	LIC	BUFFALO, NY	BLANK0000136979	216.1
No	WTKO-CD	D32	DC	LIC	ONEIDA, NY	BLANK0000080049	199.7
No	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028	143.2
No	WKHU-CD	D32	DC	CP	KITTANNING, PA	BLANK0000127549	222.7
No	W32FP-D	D32	LD	LIC	Scranton, PA	BLANK0000120702	87.5

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D31
 Mask: Stringent
 Latitude: 41 37 13.00 N (NAD83)
 Longitude: 77 6 42.00 W
 Height AMSL: 719.0 m
 HAAT: 0.0 m
 Peak ERP: 1.00 kW
 Antenna: DIE-TUA (ID 120649) 160.0 deg
 Elev Pattn: Generic

50.4 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	0.002 kW	187.0 m	9.6 km
45.0	0.005	155.2	10.6
90.0	0.009	116.9	10.6
135.0	0.601	188.2	33.1
180.0	0.726	164.5	32.8
225.0	0.022	150.4	14.9
270.0	0.005	154.0	10.5
315.0	0.002	159.0	9.0

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 159 m

Proposal 25.42 dBu contour does not cross Canadian border

Distance to Canadian border: 201.4 km

Distance to Mexican border: 2512.7 km

Conditions at FCC monitoring station: Canandaigua NY

Bearing: 355.0 degrees Distance: 144.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 275.4 degrees Distance: 2357.6 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%

Interference to BLANK0000086927 LIC scenario 1

Desired:	Call WYDC	Chan D30	Svc DT	Status LIC	City, State CORNING, NY	File Number BLANK0000086927	Distance	
Undesireds:	W31FC-D	D31	LD	APP	Mansfield, PA		58.1 km	
	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDT20090223ABU	104.7	
	WUTR	D30	DT	LIC	UTICA, NY	BLCDT20040217ADC	191.3	
	KYW-TV	D30	DT	LIC	PHILADELPHIA, PA	BLANK00000129344	279.4	
	WPTG-CD	D30	DC	LIC	Pittsburgh, PA	BLANK00000129480	306.0	
	WSKG-TV	D31	DT	LIC	BINGHAMTON, NY	BLANK00000116396	93.8	
	Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	18678.4	563,486	15944.5	452,106	15583.5	443,590	15549.4 443,398	0.22 0.04
Undesired				Total IX	Unique IX, before	Unique IX, after		
W31FC-D D31 LD APP		43.2		192		34.2 192		
WQMY D29 DT LIC		4.0		0	1.0 0	0.0 0		
WUTR D30 DT LIC		132.9		3,225	107.8 2,398	107.8 2,398		
KYW-TV D30 DT LIC		102.3		931	70.2 630	63.2 630		
WPTG-CD D30 DC LIC		1.0		0	0.0 0	0.0 0		
WSKG-TV D31 DT LIC		166.9		5,444	144.8 4,522	144.8 4,522		

Interference to BLANK0000086927 LIC scenario 2

Desired:	Call WYDC	Chan D30	Svc DT	Status LIC	City, State CORNING, NY	File Number BLANK0000086927	Distance	
Undesireds:	W31FC-D	D31	LD	APP	Mansfield, PA		58.1 km	
	WQMY	D29	DT	CP	WILLIAMSPORT, PA	BLANK0000035754	104.7	
	WUTR	D30	DT	LIC	UTICA, NY	BLCDT20040217ADC	191.3	
	KYW-TV	D30	DT	LIC	PHILADELPHIA, PA	BLANK00000129344	279.4	
	WPTG-CD	D30	DC	LIC	Pittsburgh, PA	BLANK00000129480	306.0	
	WSKG-TV	D31	DT	LIC	BINGHAMTON, NY	BLANK00000116396	93.8	
	Service area				Terrain-limited	IX-free, before	IX-free, after	Percent New IX
	18678.4	563,486	15944.5	452,106	15583.5	443,590	15549.4 443,398	0.22 0.04
Undesired				Total IX	Unique IX, before	Unique IX, after		

W31FC-D D31 LD APP	43.2	192			34.2	192
WQMY D29 DT CP	8.0	0	1.0	0	0.0	0
WUTR D30 DT LIC	132.9	3,225	107.8	2,398	107.8	2,398
KYW-TV D30 DT LIC	102.3	931	66.2	630	61.2	630
WPTG-CD D30 DC LIC	1.0	0	0.0	0	0.0	0
WSKG-TV D31 DT LIC	166.9	5,444	144.8	4,522	144.8	4,522

Interference to BLANK0000105303 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	
Undesireds:	W31FC-D	D31	LD	APP	Mansfield, PA		161.6 km
	WPTG-CD	D30	DC	LIC	Pittsburgh, PA	BLANK0000129480	129.2
	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	214.3
	WSKG-TV	D31	DT	LIC	BINGHAMTON, NY	BLANK0000116396	266.5
	WNED-TV	D31	DT	LIC	BUFFALO, NY	BLANK0000107983	276.5
	WYTV	D31	DT	LIC	YOUNGSTOWN, OH	BLANK0000081168	193.0
	WTFX-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	277.9
	WMVH-CD	D32	DC	LIC	CHARLEROI, PA	BLANK0000079929	132.6
	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028	135.5
	WKHU-CD	D32	DC	LIC	KITTANNING, PA	BLANK0000079958	95.2

Service area	Terrain-limited	IX-free, before	IX-free, after	Percent New IX
23354.4	890,526	19380.8	737,506	18811.1
		726,906	18810.2	726,906
				0.01
				0.00

Undesired	Total IX	Unique IX, before	Unique IX, after
W31FC-D D31 LD APP	3.0	0	1.0
WPTG-CD D30 DC LIC	2.0	78	0.0
WETA-TV D31 DT LIC	355.7	5,409	266.5
WSKG-TV D31 DT LIC	16.0	315	3.0
WNED-TV D31 DT LIC	32.2	490	4.0
WYTV D31 DT LIC	169.1	5,123	113.0
WTFX-TV D31 DT LIC	91.0	1,567	30.9
WHP-TV D32 DT LIC	60.9	1,257	30.9

Interference to BLANK0000105303 LIC scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	
Undesireds:	W31FC-D	D31	LD	APP	Mansfield, PA		161.6 km
	WPTG-CD	D30	DC	LIC	Pittsburgh, PA	BLANK0000129480	129.2
	WETA-TV	D31	DT	LIC	WASHINGTON, DC	BLANK0000120146	214.3
	WSKG-TV	D31	DT	LIC	BINGHAMTON, NY	BLANK0000116396	266.5
	WNED-TV	D31	DT	LIC	BUFFALO, NY	BLANK0000107983	276.5
	WYTV	D31	DT	LIC	YOUNGSTOWN, OH	BLANK0000081168	193.0
	WTXF-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	277.9
	WMVH-CD	D32	DC	LIC	CHARLEROI, PA	BLANK0000079929	132.6
	WHP-TV	D32	DT	LIC	HARRISBURG, PA	BLANK0000080028	135.5
	WKHU-CD	D32	DC	CP	KITTANNING, PA	BLANK0000127549	95.2
	Service area	Terrain-limited		IX-free, before		IX-free, after	Percent New IX
23354.4	890,526	19380.8	737,506	18811.1	726,906	18810.2 726,906	0.01 0.00
Undesired				Total IX	Unique IX, before		Unique IX, after
W31FC-D	D31	LD	APP	3.0	0	1.0	0
WPTG-CD	D30	DC	LIC	2.0	78	0.0	0
WETA-TV	D31	DT	LIC	355.7	5,409	266.5	3,139
WSKG-TV	D31	DT	LIC	16.0	315	3.0	254
WNED-TV	D31	DT	LIC	32.2	490	4.0	49
WYTV	D31	DT	LIC	169.1	5,123	113.0	3,288
WTXF-TV	D31	DT	LIC	91.0	1,567	30.9	488
WHP-TV	D32	DT	LIC	60.9	1,257	30.9	440
WKHU-CD	D32	DC	CP	2.0	78	0.0	0

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W31FC-D	D31	LD	APP	Mansfield, PA		
Undesireds:	WSKG-TV	D31	DT	LIC	BINGHAMTON, NY	BLANK0000116396	108.3 km
	WNED-TV	D31	DT	LIC	BUFFALO, NY	BLANK0000107983	216.0

W31BP	D31+	LD	CP	BURLINGTON, ETC., NY	BLANK0000054409	202.7
WATM-TV	D31	DT	LIC	ALTOONA, PA	BLANK0000105303	161.6
WWBP-LP	N31+	TX	LIC	FREEDOM, PA	BLTTTL20040909ABD	282.2
WTXF-TV	D31	DT	LIC	PHILADELPHIA, PA	BLANK0000080320	235.9

Service area	Terrain-limited	IX-free	Percent IX
1182.3 9,644	889.5 6,799	857.3 6,734	3.62 0.96

Undesired	Total IX	Unique IX	Prcnt Unique IX
WSKG-TV D31 DT LIC 10.1 0 6.0	0	0	0.68 0.00
WNED-TV D31 DT LIC 1.0 0 1.0	0	0	0.11 0.00
WATM-TV D31 DT LIC 24.2 65 19.1	65	65	2.15 0.96
WTXF-TV D31 DT LIC 4.0 0 0.0	0	0	0.00 0.00