

INTERFERENCE ANALYSIS FOR LICENSED WNEP-LD, WAYMART, PA, CHANNEL 26, WITH RESPECT TO WOLF-TV

tvstudy v2.2.5 (4uoc83)

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

Study build station data: LMS TV 2018-04-11 #169

Proposal: WNEP-TV D22 LD LIC SCRANTON, PA
File number: BLCDT20091216AAH
Facility ID: 73318
Station data: LMS TV 2018-04-11 #169
Record ID: 7c14d969220d4330af86cf6212b6c0ea
Country: U.S.

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W20CM	N20-	TX	LIC	PORT JERVIS, NY	BLTTL20071129AIS	69.0 km
No	WEDW	D21	DT	CP	BRIDGEPORT, CT	BLANK0000034869	168.2
No	WEDW	D21	DD	APP	BRIDGEPORT, CT	BLANK0000036047	168.2
No	W21CP-D	D21	LD	LIC	GLOVERSVILLE, NY	BLDTT20090601AQC	179.2
No	W25DY-D	D21	LD	APP	MONTICELLO, NY	BLANK0000052137	61.5
No	WROC-TV	D21	DT	APP	ROCHESTER, NY	BLANK0000034937	243.6
No	WROC-TV	D21	DT	CP	ROCHESTER, NY	BLANK0000027721	243.6
No	WUTH-CD	D22	DC	CP	HARTFORD, CT	BLANK0000034459	245.1
No	WBXP-TV	D22	DT	CP	BOSTON, MA	BLANK0000034343	355.2
No	WVMA-CD	D22	DC	CP	WINCHENDON, MA	BLANK0000033356	295.6
No	WMPB	D22	DT	CP	BALTIMORE, MD	BLANK0000029875	268.4
No	WBLP-LP	N22	TX	LIC	OCEAN CITY, MD	BLTTL19941114JA	355.8
No	WLEK-LD	D22	LD	LIC	CONCORD, NH	BLANK0000004401	362.0
No	WLEK-LD	D22	LD	CP	CONCORD, NH	BLANK0000010982	373.9
No	WDVB-CD	D22	DC	CP	EDISON, NJ	BLANK0000034859	155.4
No	WPHY-CD	D22	DC	CP	TRENTON, NJ	BLANK0000034674	177.5
No	WECY-LD	D22	LD	LIC	CORNING, NY	BLANK0000024397	148.0
No	WXNY-LD	D22	LD	CP	NEW YORK, NY	BDISDTL20100421AAT	158.2
No	WCBS-TV	D22	LD	LIC	NEW YORK, NY	BLCDT20120905AAO	225.1
Yes	W22EW-D	D22+	LD	LIC	PORT JERVIS, NY	BLANK0000018995	98.0
No	W22EW-D	D22+	LD	APP	PORT JERVIS, NY	BLANK0000033500	135.5
No	WXXI-TV	D22	DT	CP	ROCHESTER, NY	BLANK0000029838	243.5
Yes	WCWN	D22	DT	CP	SCHENECTADY, NY	BLANK0000033782	160.6
No	W22DO-D	D22	LD	LIC	UTICA, NY	BLDTT20111024AES	169.3
No	WTOO-CD	D22	DC	CP	BOLIVAR, PA	BLANK0000034570	329.7
Yes	WOLF-TV	D22	DT	CP	HAZLETON, PA	BLANK0000027934	62.2
No	WJAC-TV	D22	LD	LIC	JOHNSTOWN, PA	BLCDT20110105ABC	278.8
No	WJAC-TV	D22	LD	LIC	JOHNSTOWN, PA	BLCDT20101105AAU	279.1
No	WTAE-TV	D22	LD	APP	PITTSBURGH, PA	BLANK0000030312	402.6
No	WNJS	D23	DT	CP	CAMDEN, NJ	BLANK0000034585	217.2
No	WBPN-LD	D23	LD	CP	BINGHAMTON, NY	BMPDTL20130212ABG	67.6
No	WETM-TV	D23	DT	CP	ELMIRA, NY	BLANK0000029984	130.7
No	WFTY-DT	D23	DT	LIC	SMITHTOWN, NY	BLCDT20120427ABO	222.4
No	WHSU-CD	D23	DC	CP	SYRACUSE, NY	BLANK0000034940	169.8
No	WNGN-LD	D23	LD	LIC	TROY, NY	BLANK0000035004	219.6
No	WFMZ-TV	D23	LD	APP	ALLENTOWN, PA	BLANK0000052221	177.3
No	W25FA-D	N24	TX	LIC	PORT JERVIS, NY	BLTTL20121024AAA	69.0
No	W26DB-D	N26-	TX	LIC	PORT JERVIS, NY	BLTTL20070223AHI	69.0

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D22

Mask: Stringent

Latitude: 41 37 55.30 N (NAD83)

Longitude: 75 25 31.60 W

Height AMSL: 688.6 m (Adjusted based on actual ground elevation calculation)

HAAT: 0.0 m

Peak ERP: 0.300 kW

Antenna: KAT-K723147 (ID 96237) 130.0 deg

Elev Pattn: Generic

49.6 dBu contour:

Azimuth	ERP	HAAT	Distance
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0.0 deg	0.000 kW	137.1 m	5.4 km
45.0	0.021	241.1	19.7
90.0	0.169	271.2	31.7
135.0	0.295	276.4	34.9
180.0	0.121	220.8	27.7
225.0	0.011	318.4	19.5
270.0	0.000	206.0	4.4
315.0	0.002	182.0	9.0

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 232 m

Proposal 24.56 dBu contour does not cross Canadian border

Distance to Canadian border: 248.9 km

Distance to Mexican border: 2626.6 km

Conditions at FCC monitoring station: Canandaigua NY

Bearing: 313.9 degrees Distance: 207.8 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 276.2 degrees Distance: 2496.8 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 BLANK0000027934 CP scenario 1

****IX: 1.50% interference caused**

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WOLF-TV	D22	DT	CP	HAZLETON, PA	BLANK0000027934	
Undesireds:	WNEP-TV	D22	LD	LIC	SCRANTON, PA	BLCDT20091216AAH	62.2 km
	WUTH-CD	D22	DC	CP	HARTFORD, CT	BLANK0000034459	288.7
	WVMA-CD	D22	DC	CP	WINCHENDON, MA	BLANK0000033356	354.5
	WMPB	D22	DT	CP	BALTIMORE, MD	BLANK0000029875	207.8
	WDVB-CD	D22	DC	CP	EDISON, NJ	BLANK0000034859	165.3
	WPHY-CD	D22	DC	CP	TRENTON, NJ	BLANK0000034674	137.6
	WXXI-TV	D22	DT	CP	ROCHESTER, NY	BLANK0000029838	258.9
	WCWN	D22	DT	CP	SCHENECTADY, NY	BLANK0000033782	222.2
	WTOO-CD	D22	DC	CP	BOLIVAR, PA	BLANK0000034570	277.2
	WVKH-CD	D22	DC	CP	UNIONTOWN, PA	BLANK0000027838	352.4
	WNJS	D23	DT	CP	CAMDEN, NJ	BLANK0000034585	183.5
	WETM-TV	D23	DT	CP	ELMIRA, NY	BLANK0000029984	132.1
	WHSU-CD	D23	DC	CP	SYRACUSE, NY	BLANK0000034940	209.9

	Service area	Terrain-limited		IX-free, before		IX-free, after	
	33726.4	2,985,910	28967.4	2,518,564	27578.1	2,415,437	26364.2 2,379,226
							Percent New IX
							4.40 1.50

Undesired	Total IX	Unique IX, before	Unique IX, after
WNEP-TV D22 LD LIC	1383.7	43,696	1214.0 36,211
WMPB D22 DT CP	405.2	45,269	240.4 31,346
WDVB-CD D22 DC CP	258.0	17,866	237.4 31,278
WPHY-CD D22 DC CP	112.8	23,027	6.9 6,699
WXXI-TV D22 DT CP	187.8	6,745	93.9 6,014
WCWN D22 DT CP	656.4	34,267	68.9 18,717
WTOO-CD D22 DC CP	8.0	165	60.9 1,984
WETM-TV D23 DT CP	220.7	5,208	59.9 1,927
			286.0 12,795
			6.0 105
			143.8 2,291

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Interference to proposal scenario 1

39.93% interference received

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Desired:	WNEP-TV	D22	LD	LIC	SCRANTON, PA	BLCDT20091216AAH	
Undesireds:	W22EW-D	D22+	LD	LIC	PORT JERVIS, NY	BLANK0000018995	98.0 km
	WXXI-TV	D22	DT	CP	ROCHESTER, NY	BLANK0000029838	243.5
	WCWN	D22	DT	CP	SCHENECTADY, NY	BLANK0000033782	160.6
	WOLF-TV	D22	DT	CP	HAZLETON, PA	BLANK0000027934	62.2
	WJAC-TV	D22	LD	LIC	JOHNSTOWN, PA	BLCDT20110105ABC	278.8

Service area	Terrain-limited	IX-free	Percent IX
1473.5 76,072	1343.9 68,904	872.8 41,394	35.06 39.93

Undesired	Total IX	Unique IX	Prcnt Unique IX
WXXI-TV D22 DT CP	1.0 68	1.0 68	0.07 0.10
WCWN D22 DT CP	14.1 522	4.0 37	0.30 0.05
WOLF-TV D22 DT CP	466.1 27,405	456.1 26,920	33.94 39.07

