

INTERFERENCE ANALYSIS FOR WEDH PROPOSED FACILITY, HARTFORD, CT (CHANNEL 30)

tvstudy v2.2.5 (4uoc83)
Database: localhost, Study: wedh30p4, Model: Longley-Rice

Study build station data: LMS TV 2019-08-07

Proposal: WEDH30P4 D30 DT APP HARTFORD, CT
File number: wedh30p4
Facility ID: 13602
Station data: User record
Record ID: 4019
Country: U.S.
Zone: I

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
Yes	WNEU	D29	DT	CP	MERRIMACK, NH	BLANK0000034700	148.0 km
Yes	WLNH-TV	D29	DT	CP	RIVERHEAD, NY	BLANK0000034023	89.9
No	WKTV	D29	DT	LIC	UTICA, NY	BLCDT20060630ACL	232.6
No	WYDC	D30	DT	CP	CORNING, NY	BLANK0000034651	354.4
Yes	WUTR	D30	DT	LIC	UTICA, NY	BLCDT20040217ADC	250.3
Yes	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	274.1
Yes	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	0.3
No	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	260.7
No	WNCE-CD	D31	DC	LIC	GLENS FALLS, NY	BLDTA20100812ABN	191.4
No	WPXN-TV	D31	DT	LIC	NEW YORK, NY	BLANK0000037694	147.9
No	WTXF-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	274.0

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:
WLAT 910 L DAN D NEW BRITAIN, CT BMML20150928AGK
WLAT 910 L DAN N NEW BRITAIN, CT BMML20150928AGK

Record parameters as studied:

Channel: D30
Latitude: 41 42 13.00 N (NAD83)
Longitude: 72 49 55.00 W
Height AMSL: 604.4 m
HAAT: 506.0 m
Peak ERP: 497 kW
Antenna: DIE-TFU-16DSC/VP-R C170 (ID 1002375) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 1.00

40.3 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	435 kW	541.7 m	111.0 km
45.0	402	548.1	110.7
90.0	461	562.7	112.8
135.0	400	567.8	111.8
180.0	45.3	459.7	86.1
225.0	28.3	467.2	83.3
270.0	94.9	448.9	90.7
315.0	461	450.2	104.4

Distance to Canadian border: 368.0 km

Distance to Mexican border: 2812.0 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 291.7 degrees Distance: 388.4 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 277.2 degrees Distance: 2709.7 km

Study cell size: 2.00 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%

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Interference to BLANK0000034700 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WNEU	D29	DT	CP	MERRIMACK, NH	BLANK0000034700	
Undesireds:	WEDH	D30	DT	BL	HARTFORD, CT	DTVBL13602	148.0 km
	WEDH30P4	D30	DT	APP	HARTFORD, CT	wedh30p4	148.0
	WHPX-TV	D28	DT	CP	NEW LONDON, CT	BLANK0000063882	148.0
	WLNY-TV	D29	DT	CP	RIVERHEAD, NY	BLANK0000034023	210.0
	WKTU	D29	DT	LIC	UTICA, NY	BLCDDT20060630ACL	315.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
26287.0		7,135,190		25471.0		7,049,347	0.00 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WEDH D30 DT BL		23.9		915		0.0	
WEDH30P4 D30 DT APP		27.9		1,115		0.0	
WHPX-TV D28 DT CP		23.9		915		0.0	
WLNY-TV D29 DT CP		148.1		16,112		80.1	
WKTU D29 DT LIC		76.0		6,290		12.0	

Interference to BLANK0000034023 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WLNY-TV	D29	DT	CP	RIVERHEAD, NY	BLANK0000034023	
Undesireds:	WEDH	D30	DT	BL	HARTFORD, CT	DTVBL13602	89.9 km
	WEDH30P4	D30	DT	APP	HARTFORD, CT	wedh30p4	89.9
	WHPX-TV	D28	DT	CP	NEW LONDON, CT	BLANK0000063882	89.9
	WNEU	D29	DT	CP	MERRIMACK, NH	BLANK0000034700	210.0
	WKTU	D29	DT	LIC	UTICA, NY	BLCDDT20060630ACL	296.7
	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDDT20090223ABU	354.0
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
16396.3		7,501,199		16250.8		7,343,944	0.00 -0.01
Undesired		Total IX		Unique IX, before		Unique IX, after	
WEDH D30 DT BL		101.0		41,163		4.0	
WEDH30P4 D30 DT APP		109.1		42,743		4.0	
WHPX-TV D28 DT CP		149.5		67,855		44.4	
WNEU D29 DT CP		4.0		1,484		4.0	
WKTU D29 DT LIC		12.1		2,183		12.1	

Interference to BLCDDT20040217ADC LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WUTR	D30	DT	LIC	UTICA, NY	BLCDDT20040217ADC	
Undesireds:	WEDH	D30	DT	BL	HARTFORD, CT	DTVBL13602	250.3 km
	WEDH30P4	D30	DT	APP	HARTFORD, CT	wedh30p4	250.3
	WKTU	D29	DT	LIC	UTICA, NY	BLCDDT20060630ACL	19.7
	WYDC	D30	DT	CP	CORNING, NY	BLANK0000034651	191.3
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	344.9
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	136.0
	WWTI	D31	DT	LIC	WATERTOWN, NY	BLANK0000079855	92.7
Service area		Terrain-limited		IX-free, before		IX-free, after	Percent New IX
14107.6		526,114		12682.2		442,037	0.04 0.00
Undesired		Total IX		Unique IX, before		Unique IX, after	
WEDH D30 DT BL		111.4		3,735		23.9	
WEDH30P4 D30 DT APP		151.3		4,300		27.9	
WKTU D29 DT LIC		2035.5		37,311		1836.6	
WYDC D30 DT CP		254.6		2,753		155.1	
KYW-TV D30 DT CP		24.1		243		4.0	
WSKG-TV D31 DT CP		12.0		76		4.0	

Interference to BLANK0000033618 CP scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	
Undesireds:	WEDH	D30	DT	BL	HARTFORD, CT	DTVBL13602	274.1 km
	WEDH30P4	D30	DT	APP	HARTFORD, CT	wedh30p4	274.1
	WQMY	D29	DT	LIC	WILLIAMSPORT, PA	BLCDDT20090223ABU	204.1
	WIAV-CD	D30	DC	CP	WASHINGTON, DC	BLANK0000029340	199.7
	WMPT	D31	DT	BL	ANNAPOLIS, MD	DTVBL65942	164.0
	WPXN-TV	D31	DT	LIC	NEW YORK, NY	BLANK0000037694	128.0
	WTFX-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	0.4

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Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
34708.6	11,212,189	33425.6	11,008,413	32841.2	10,698,563	32833.3	10,694,863	0.02	0.03
Undesired		Total IX		Unique IX, before		Unique IX, after			
WEDH D30 DT BL	4.0		2,045	0.0	0				
WEDH30P4 D30 DT APP	16.0		13,525			8.0	3,700		
WIAV-CD D30 DC CP	139.6		19,129	99.8	11,996	99.8	11,996		
WMPT D31 DT BL	35.7		5,986	0.0	0	0.0	0		
WPXN-TV D31 DT LIC	436.8		291,331	428.8	288,139	424.8	280,359		
WTFX-TV D31 DT CP	12.0		537	12.0	537	12.0	537		

Interference to BLANK0000079823 LIC scenario 1

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	
Undesireds:	WEDH	D30	DT	BL	HARTFORD, CT	DTVBL13602	0.4 km
	WEDH30P4	D30	DT	APP	HARTFORD, CT	wedh30p4	0.3
	WCSH	D31	DT	CP	PORTLAND, ME	BLANK0000034813	295.7
	WSKG-TV	D31	DT	CP	BINGHAMTON, NY	BLANK0000028130	260.8
	WNCE-CD	D31	DC	LIC	GLENS FALLS, NY	BLDTA20100812ABN	191.7
	WPXN-TV	D31	DT	LIC	NEW YORK, NY	BLANK0000037694	147.7
	WWTI	D31	DT	LIC	WATERTOWN, NY	BLANK0000079855	337.8
	WTFX-TV	D31	DT	CP	PHILADELPHIA, PA	BLANK0000034830	273.8
	WGBX-TV	D32	DT	CP	BOSTON, MA	BLANK0000073038	148.2
	WLIW	D32	DT	CP	GARDEN CITY, NY	BLANK0000074687	147.7

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent	New IX
32863.7	5,846,093	29484.7	5,357,639	25743.8	4,368,076	25695.9	4,364,358	0.19	0.09
Undesired		Total IX		Unique IX, before		Unique IX, after			
WEDH D30 DT BL	112.2		5,160	112.2	5,160				
WEDH30P4 D30 DT APP	160.1		8,878			160.1	8,878		
WCSH D31 DT CP	393.2		36,948	148.5	11,963	148.5	11,963		
WSKG-TV D31 DT CP	16.1		2,097	0.0	0	0.0	0		
WNCE-CD D31 DC LIC	168.5		6,707	64.1	1,088	64.1	1,088		
WPXN-TV D31 DT LIC	3147.4		948,958	2637.4	833,108	2637.4	833,108		
WTFX-TV D31 DT CP	269.5		69,178	36.3	4,895	36.3	4,895		
WGBX-TV D32 DT CP	280.5		27,153	140.2	13,373	140.2	13,373		
WLIW D32 DT CP	112.5		63,368	0.0	0	0.0	0		

Interference to proposal scenario 1
3.73% interference received

Desired:	Call	Chan	Svc	Status	City, State	File Number	Distance
	WEDH30P4	D30	DT	APP	HARTFORD, CT	wedh30p4	
Undesireds:	WNEU	D29	DT	CP	MERRIMACK, NH	BLANK0000034700	148.0 km
	WLNK-TV	D29	DT	CP	RIVERHEAD, NY	BLANK0000034023	89.9
	WUTR	D30	DT	LIC	UTICA, NY	BLCDT20040217ADC	250.3
	KYW-TV	D30	DT	CP	PHILADELPHIA, PA	BLANK0000033618	274.1
	WVIT	D31	DT	LIC	NEW BRITAIN, CT	BLANK0000079823	0.3
	WPXN-TV	D31	DT	LIC	NEW YORK, NY	BLANK0000037694	147.9

Service area		Terrain-limited		IX-free		Percent IX	
32652.9	5,328,800	28701.4	4,724,167	27853.9	4,548,089	2.95	3.73
Undesired		Total IX		Unique IX		Prct Unique IX	
WNEU D29 DT CP	92.0		24,538	92.0	24,538	0.32	0.52
WLNK-TV D29 DT CP	272.5		94,262	139.7	46,792	0.49	0.99
WUTR D30 DT LIC	20.0		311	12.0	165	0.04	0.00
KYW-TV D30 DT CP	378.6		74,708	249.8	31,218	0.87	0.66
WVIT D31 DT LIC	213.0		25,313	193.0	21,456	0.67	0.45
WPXN-TV D31 DT LIC	97.0		39,420	4.0	241	0.01	0.01
