

INTERFERENCE ANALYSIS FOR PROPOSED WHPX-TV NEW LONDON, CT (CHANNEL 28)

tvstudy v2.2.3 (Dxtpx3)
Database: localhost, Study: whpx28m1, Model: Longley-Rice

Study build station data: LMS TV 2017-10-24 (75)

Proposal: WHPX28M1 D28 DT APP NEW LONDON, CT
File number: whpx28m1
Facility ID: 51980
Station data: User record
Record ID: 1595
Country: U.S.
Zone: I

Stations affected by proposal:

Call	Chan	Svc	Status	City, State	File Number	Distance
WUTF-DT	D27	DT	LIC	MARLBOROUGH, MA	BLANK0000030092	122.2 km
WNYW	D27	DT	BL	NEW YORK, NY	DTVBL22206	167.2
WEPT-CD	D28	DC	CP	NEWBURGH, NY	BLANK0000027751	174.3
WEPT-CD	D28	DC	BL	NEWBURGH, NY	DTVBL30429	174.3
WCAU	D28	DT	CP	PHILADELPHIA, PA	BLANK0000026896	298.1
WCAU	D28	DT	BL	PHILADELPHIA, PA	DTVBL63153	298.1
WVTB	D28	DT	CP	ST. JOHNSBURY, VT	BLANK0000028428	351.3
WVTB	D28	DT	APP	ST. JOHNSBURY, VT	BLANK0000029682	351.3
WVTB	D28	DT	BL	ST. JOHNSBURY, VT	DTVBL69940	351.4
WLNY-TV	D29	DT	CP	RIVERHEAD, NY	BLANK0000027106	83.3
WLNY-TV	D29	DT	APP	RIVERHEAD, NY	BLANK0000034023	83.3
WLNY-TV	D29	DT	BL	RIVERHEAD, NY	DTVBL73206	83.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D28

Latitude: 41 25 3.70 N (NAD83)
Longitude: 72 11 53.20 W
Height AMSL: 448.6 m
HAAT: 385.0 m

Peak ERP: 932 kW

Antenna: DIE-TFU-31JTT/VP-R 3BP250 (ID 1001556) 0.0 deg
Elev Pattn: Generic
Elec Tilt: 0.8

40.1 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	191 kW	318.8 m	86.3 km
45.0	756	380.9	103.6
90.0	604	396.6	102.9
135.0	66.9	420.7	87.1
180.0	50.6	429.1	85.6
225.0	66.9	410.4	86.6
270.0	604	385.1	101.9
315.0	756	338.9	100.1

**Proposal service area extends beyond baseline plus 1.0%
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 398.7 km

Distance to Mexican border: 2841.6 km

Conditions at FCC monitoring station: Belfast ME
Bearing: 35.9 degrees Distance: 421.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 278.1 degrees Distance: 2766.2 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%

INTERFERENCE ANALYSIS FOR PROPOSED WHPX-TV NEW LONDON, CT (CHANNEL 28)

Scenario comparisons

Case	Before			After		Percent New IX
IX_BLANK0000030092_L	23719.7	7,065,511	23683.6	7,063,029	0.15	0.04
IX_BLANK0000030092_L	23607.5	7,060,557	23571.3	7,058,075	0.15	0.04
IX_BLANK0000030092_L	23715.7	7,065,444	23679.6	7,062,962	0.15	0.04
IX_BLANK0000030092_L	23607.5	7,060,557	23571.3	7,058,075	0.15	0.04
IX_DTVBL22206_BL_#1	25465.0	19,708,052	25457.0	19,707,431	0.03	0.00
IX_DTVBL22206_BL_#2	25465.0	19,708,052	25457.0	19,707,431	0.03	0.00
IX_DTVBL22206_BL_#3	25469.0	19,709,572	25461.0	19,708,951	0.03	0.00
IX_DTVBL22206_BL_#4	25469.0	19,709,572	25461.0	19,708,951	0.03	0.00
IX_DTVBL22206_BL_#5	25468.9	19,712,249	25460.9	19,711,628	0.03	0.00
IX_DTVBL22206_BL_#6	25468.9	19,712,249	25460.9	19,711,628	0.03	0.00
IX_DTVBL22206_BL_#7	25472.9	19,713,769	25464.9	19,713,148	0.03	0.00
IX_DTVBL22206_BL_#8	25472.9	19,713,769	25464.9	19,713,148	0.03	0.00
IX_DTVBL22206_BL_#9	25452.9	19,707,224	25444.8	19,706,603	0.03	0.00
IX_DTVBL22206_BL_#10	25452.9	19,707,224	25444.8	19,706,603	0.03	0.00
IX_DTVBL22206_BL_#11	25456.9	19,708,744	25448.9	19,708,123	0.03	0.00
IX_DTVBL22206_BL_#12	25456.9	19,708,744	25448.9	19,708,123	0.03	0.00
IX_DTVBL22206_BL_#13	25456.8	19,711,421	25448.8	19,710,800	0.03	0.00
IX_DTVBL22206_BL_#14	25456.8	19,711,421	25448.8	19,710,800	0.03	0.00
IX_DTVBL22206_BL_#15	25460.8	19,712,941	25452.8	19,712,320	0.03	0.00
IX_DTVBL22206_BL_#16	25460.8	19,712,941	25452.8	19,712,320	0.03	0.00
IX_DTVBL22206_BL_#17	25469.0	19,711,570	25461.0	19,710,949	0.03	0.00
IX_DTVBL22206_BL_#18	25469.0	19,711,570	25461.0	19,710,949	0.03	0.00
IX_DTVBL22206_BL_#19	25473.0	19,713,090	25465.0	19,712,469	0.03	0.00
IX_DTVBL22206_BL_#20	25473.0	19,713,090	25465.0	19,712,469	0.03	0.00
IX_DTVBL22206_BL_#21	25472.9	19,715,767	25464.9	19,715,146	0.03	0.00
IX_DTVBL22206_BL_#22	25472.9	19,715,767	25464.9	19,715,146	0.03	0.00
IX_DTVBL22206_BL_#23	25476.9	19,717,287	25468.9	19,716,666	0.03	0.00
IX_DTVBL22206_BL_#24	25476.9	19,717,287	25468.9	19,716,666	0.03	0.00
IX_DTVBL22206_BL_#25	25456.9	19,710,742	25448.8	19,710,121	0.03	0.00
IX_DTVBL22206_BL_#26	25456.9	19,710,742	25448.8	19,710,121	0.03	0.00
IX_DTVBL22206_BL_#27	25460.9	19,712,262	25452.9	19,711,641	0.03	0.00
IX_DTVBL22206_BL_#28	25460.9	19,712,262	25452.9	19,711,641	0.03	0.00
IX_DTVBL22206_BL_#29	25460.8	19,714,939	25452.8	19,714,318	0.03	0.00
IX_DTVBL22206_BL_#30	25460.8	19,714,939	25452.8	19,714,318	0.03	0.00
IX_DTVBL22206_BL_#31	25464.8	19,716,459	25456.8	19,715,838	0.03	0.00
IX_DTVBL22206_BL_#32	25464.8	19,716,459	25456.8	19,715,838	0.03	0.00
IX_DTVBL22206_BL_#33	25392.6	19,661,692	25384.6	19,661,071	0.03	0.00
IX_DTVBL22206_BL_#34	25392.6	19,661,692	25384.6	19,661,071	0.03	0.00
IX_DTVBL22206_BL_#35	25392.6	19,661,692	25384.6	19,661,071	0.03	0.00
IX_DTVBL22206_BL_#36	25392.6	19,661,692	25384.6	19,661,071	0.03	0.00
IX_DTVBL22206_BL_#37	25396.5	19,665,889	25388.5	19,665,268	0.03	0.00
IX_DTVBL22206_BL_#38	25396.5	19,665,889	25388.5	19,665,268	0.03	0.00
IX_DTVBL22206_BL_#39	25396.5	19,665,889	25388.5	19,665,268	0.03	0.00
IX_DTVBL22206_BL_#40	25396.5	19,665,889	25388.5	19,665,268	0.03	0.00
IX_DTVBL22206_BL_#41	25465.0	19,708,052	25457.0	19,707,431	0.03	0.00
IX_DTVBL22206_BL_#42	25465.0	19,708,052	25457.0	19,707,431	0.03	0.00
IX_DTVBL22206_BL_#43	25469.0	19,709,572	25461.0	19,708,951	0.03	0.00
IX_DTVBL22206_BL_#44	25469.0	19,709,572	25461.0	19,708,951	0.03	0.00
IX_DTVBL22206_BL_#45	25468.9	19,712,249	25460.9	19,711,628	0.03	0.00
IX_DTVBL22206_BL_#46	25468.9	19,712,249	25460.9	19,711,628	0.03	0.00
IX_DTVBL22206_BL_#47	25472.9	19,713,769	25464.9	19,713,148	0.03	0.00
IX_DTVBL22206_BL_#48	25472.9	19,713,769	25464.9	19,713,148	0.03	0.00
IX_DTVBL22206_BL_#49	25380.5	19,660,864	25372.5	19,660,243	0.03	0.00
IX_DTVBL22206_BL_#50	25380.5	19,660,864	25372.5	19,660,243	0.03	0.00
IX_DTVBL22206_BL_#51	25380.5	19,660,864	25372.5	19,660,243	0.03	0.00
IX_DTVBL22206_BL_#52	25380.5	19,660,864	25372.5	19,660,243	0.03	0.00
IX_DTVBL22206_BL_#53	25384.4	19,665,061	25376.4	19,664,440	0.03	0.00
IX_DTVBL22206_BL_#54	25384.4	19,665,061	25376.4	19,664,440	0.03	0.00
IX_DTVBL22206_BL_#55	25384.4	19,665,061	25376.4	19,664,440	0.03	0.00
IX_DTVBL22206_BL_#56	25384.4	19,665,061	25376.4	19,664,440	0.03	0.00
IX_DTVBL22206_BL_#57	25452.9	19,707,224	25444.8	19,706,603	0.03	0.00
IX_DTVBL22206_BL_#58	25452.9	19,707,224	25444.8	19,706,603	0.03	0.00
IX_DTVBL22206_BL_#59	25456.9	19,708,744	25448.9	19,708,123	0.03	0.00
IX_DTVBL22206_BL_#60	25456.9	19,708,744	25448.9	19,708,123	0.03	0.00
IX_DTVBL22206_BL_#61	25456.8	19,711,421	25448.8	19,710,800	0.03	0.00
IX_DTVBL22206_BL_#62	25456.8	19,711,421	25448.8	19,710,800	0.03	0.00
IX_DTVBL22206_BL_#63	25460.8	19,712,941	25452.8	19,712,320	0.03	0.00
IX_DTVBL22206_BL_#64	25460.8	19,712,941	25452.8	19,712,320	0.03	0.00
IX_DTVBL22206_BL_#65	25396.6	19,665,210	25388.6	19,664,589	0.03	0.00
IX_DTVBL22206_BL_#66	25396.6	19,665,210	25388.6	19,664,589	0.03	0.00
IX_DTVBL22206_BL_#67	25396.6	19,665,210	25388.6	19,664,589	0.03	0.00

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Case	Before		After		Percent	New IX
IX_DTVBL22206_BL_#68	25396.6	19,665,210	25388.6	19,664,589	0.03	0.00
IX_DTVBL22206_BL_#69	25400.5	19,669,407	25392.5	19,668,786	0.03	0.00
IX_DTVBL22206_BL_#70	25400.5	19,669,407	25392.5	19,668,786	0.03	0.00
IX_DTVBL22206_BL_#71	25400.5	19,669,407	25392.5	19,668,786	0.03	0.00
IX_DTVBL22206_BL_#72	25400.5	19,669,407	25392.5	19,668,786	0.03	0.00
IX_DTVBL22206_BL_#73	25469.0	19,711,570	25461.0	19,710,949	0.03	0.00
IX_DTVBL22206_BL_#74	25469.0	19,711,570	25461.0	19,710,949	0.03	0.00
IX_DTVBL22206_BL_#75	25473.0	19,713,090	25465.0	19,712,469	0.03	0.00
IX_DTVBL22206_BL_#76	25473.0	19,713,090	25465.0	19,712,469	0.03	0.00
IX_DTVBL22206_BL_#77	25472.9	19,715,767	25464.9	19,715,146	0.03	0.00
IX_DTVBL22206_BL_#78	25472.9	19,715,767	25464.9	19,715,146	0.03	0.00
IX_DTVBL22206_BL_#79	25476.9	19,717,287	25468.9	19,716,666	0.03	0.00
IX_DTVBL22206_BL_#80	25476.9	19,717,287	25468.9	19,716,666	0.03	0.00
IX_DTVBL22206_BL_#81	25384.5	19,664,382	25376.5	19,663,761	0.03	0.00
IX_DTVBL22206_BL_#82	25384.5	19,664,382	25376.5	19,663,761	0.03	0.00
IX_DTVBL22206_BL_#83	25384.5	19,664,382	25376.5	19,663,761	0.03	0.00
IX_DTVBL22206_BL_#84	25384.5	19,664,382	25376.5	19,663,761	0.03	0.00
IX_DTVBL22206_BL_#85	25388.4	19,668,579	25380.4	19,667,958	0.03	0.00
IX_DTVBL22206_BL_#86	25388.4	19,668,579	25380.4	19,667,958	0.03	0.00
IX_DTVBL22206_BL_#87	25388.4	19,668,579	25380.4	19,667,958	0.03	0.00
IX_DTVBL22206_BL_#88	25388.4	19,668,579	25380.4	19,667,958	0.03	0.00
IX_DTVBL22206_BL_#89	25456.9	19,710,742	25448.8	19,710,121	0.03	0.00
IX_DTVBL22206_BL_#90	25456.9	19,710,742	25448.8	19,710,121	0.03	0.00
IX_DTVBL22206_BL_#91	25460.9	19,712,262	25452.9	19,711,641	0.03	0.00
IX_DTVBL22206_BL_#92	25460.9	19,712,262	25452.9	19,711,641	0.03	0.00
IX_DTVBL22206_BL_#93	25460.8	19,714,939	25452.8	19,714,318	0.03	0.00
IX_DTVBL22206_BL_#94	25460.8	19,714,939	25452.8	19,714,318	0.03	0.00
IX_DTVBL22206_BL_#95	25464.8	19,716,459	25456.8	19,715,838	0.03	0.00
IX_DTVBL22206_BL_#96	25464.8	19,716,459	25456.8	19,715,838	0.03	0.00
IX_BLANK0000027751_C	9409.8	710,802	9389.7	709,951	0.21	0.12
IX_BLANK0000027751_C	9409.8	710,802	9389.7	709,951	0.21	0.12
IX_DTVBL30429_BL_#1	9433.9	710,971	9409.8	710,223	0.26	0.11
IX_DTVBL30429_BL_#2	9433.9	710,971	9409.8	710,223	0.26	0.11
IX_BLANK0000026896_C	31912.6	10,722,499	31900.6	10,721,757	0.04	0.01
IX_BLANK0000026896_C	31916.5	10,722,725	31904.6	10,721,983	0.04	0.01
IX_BLANK0000026896_C	31892.5	10,677,606	31876.5	10,676,224	0.05	0.01
IX_BLANK0000026896_C	31896.4	10,677,832	31880.5	10,676,450	0.05	0.01
IX_BLANK0000026896_C	31912.6	10,722,499	31900.6	10,721,757	0.04	0.01
IX_BLANK0000026896_C	31916.5	10,722,725	31904.6	10,721,983	0.04	0.01
IX_BLANK0000026896_C	31892.5	10,677,606	31876.5	10,676,224	0.05	0.01
IX_BLANK0000026896_C	31896.4	10,677,832	31880.5	10,676,450	0.05	0.01
IX_BLANK0000026896_C	31912.6	10,722,499	31900.6	10,721,757	0.04	0.01
IX_BLANK0000026896_C	31916.5	10,722,725	31904.6	10,721,983	0.04	0.01
IX_BLANK0000026896_C	31892.5	10,677,606	31876.5	10,676,224	0.05	0.01
IX_BLANK0000026896_C	31896.4	10,677,832	31880.5	10,676,450	0.05	0.01
IX_DTVBL63153_BL_#1	31924.6	10,736,258	31900.7	10,733,975	0.07	0.02
IX_DTVBL63153_BL_#2	31916.7	10,735,197	31892.8	10,732,914	0.07	0.02
IX_DTVBL63153_BL_#3	31892.5	10,680,280	31864.6	10,677,357	0.09	0.03
IX_DTVBL63153_BL_#4	31884.6	10,679,219	31856.7	10,676,296	0.09	0.03
IX_DTVBL63153_BL_#5	31924.6	10,736,258	31900.7	10,733,975	0.07	0.02
IX_DTVBL63153_BL_#6	31916.7	10,735,197	31892.8	10,732,914	0.07	0.02
IX_DTVBL63153_BL_#7	31892.5	10,680,280	31864.6	10,677,357	0.09	0.03
IX_DTVBL63153_BL_#8	31884.6	10,679,219	31856.7	10,676,296	0.09	0.03
IX_DTVBL63153_BL_#9	31924.6	10,736,258	31900.7	10,733,975	0.07	0.02
IX_DTVBL63153_BL_#10	31916.7	10,735,197	31892.8	10,732,914	0.07	0.02
IX_DTVBL63153_BL_#11	31892.5	10,680,280	31864.6	10,677,357	0.09	0.03
IX_DTVBL63153_BL_#12	31884.6	10,679,219	31856.7	10,676,296	0.09	0.03
IX_DTVBL63153_BL_#13	31924.6	10,736,258	31900.7	10,733,975	0.07	0.02
IX_DTVBL63153_BL_#14	31916.7	10,735,197	31892.8	10,732,914	0.07	0.02
IX_DTVBL63153_BL_#15	31892.5	10,680,280	31864.6	10,677,357	0.09	0.03
IX_DTVBL63153_BL_#16	31884.6	10,679,219	31856.7	10,676,296	0.09	0.03
IX_BLANK0000028428_C	18370.4	257,261	18350.3	256,868	0.11	0.15
IX_BLANK0000028428_C	3612.6	192,947	3612.6	192,947	0.00	0.00 (in Canada)
IX_BLANK0000029682_A	20928.5	318,059	20904.4	317,331	0.12	0.23
IX_BLANK0000029682_A	4806.9	234,123	4806.9	234,123	0.00	0.00 (in Canada)
IX_DTVBL69940_BL_#1	18143.0	251,775	18138.9	251,775	0.02	0.00
IX_DTVBL69940_BL_#1	3548.4	193,649	3548.4	193,649	0.00	0.00 (in Canada)

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Scenario comparisons

Case		Before		After		Percent	New IX
IX_BLANK0000027106_C	14423.5	6,367,739	14419.5	6,367,351	0.03	0.01	
IX_BLANK0000027106_C	14423.5	6,367,739	14419.5	6,367,351	0.03	0.01	
IX_BLANK0000034023_A	16117.6	7,371,776	16105.6	7,371,401	0.07	0.01	
IX_BLANK0000034023_A	16113.6	7,371,194	16101.6	7,370,819	0.07	0.01	
IX_DTVBL73206_BL_#1	14206.8	5,936,359	14202.8	5,935,971	0.03	0.01	
IX_DTVBL73206_BL_#2	14206.8	5,936,359	14202.8	5,935,971	0.03	0.01	