

tvstudy v2.2.2  
Database: localhost, Study: wled, Model: Longley-Rice  
Start: 2017.07.03 09:39:08

Study created: 2017.07.03 09:39:05

Study build station data: LMS TV 2017-06-28 (31)

Proposal: WLED-TV D23 DT BL LITTLETON, NH  
File number: DTVBL69328  
Facility ID: 69328  
Station data: User record  
Record ID: 1125  
Country: U.S.

Non-U.S. records included

Stations potentially affected:

Call	Chan	Svc	Status	City, State	File Number	Distance
WBPX-TV	D22	DT	BL	BOSTON, MA	DTVBL7692	231.1 km
WVMA-CD	D22	DC	BL	WINCHENDON, MA	DTVBL48413	155.2
WPXG-TV	D23	DT	BL	CONCORD, NH	DTVBL48406	134.1
WNPI-DT	D23	DT	LIC	NORWOOD, NY	BLEDT20050715ABZ	248.1
WFTY-DT	D23	DT	LIC	SMITHTOWN, NY	BLCDT20120427ABO	397.6
WPME	D24	DT	BL	LEWISTON, ME	DTVBL48408	125.6
CIVS-DT	D24	DT	LIC	SHERBROOKE, QC	BLANKCANADA311	113.8

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D23  
Latitude: 44 21 10.90 N (NAD83)  
Longitude: 71 44 14.90 W  
Height AMSL: 734.8 m  
HAAT: 381.9 m  
Peak ERP: 77.3 kW  
Antenna: Omnidirectional

39.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	77.3 kW	361.5 m	84.9 km
45.0	77.3	340.3	82.8
90.0	77.3	382.4	86.6
135.0	77.3	366.1	85.3
180.0	77.3	371.1	85.7
225.0	77.3	421.2	88.9
270.0	77.3	435.6	89.6
315.0	77.3	376.7	86.2

Proposal service area is within baseline plus 1.0%  
Proposal service area population is more than 95.0% of baseline

\*\*Proposal is within coordination distance of Canadian border  
Distance to Canadian border: 73.2 km

Distance to Mexican border: 3044.6 km

Conditions at FCC monitoring station: Belfast ME  
Bearing: 86.3 degrees Distance: 211.1 km  
ERP: 77.3 kW Field strength: 0.2 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 272.1 degrees    Distance: 2774.5 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 DTVBL7692 BL, scenario 1  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 2  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 3  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 4  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 5  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 6  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 7  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 8  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 9  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 10  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 11  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 12  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 13  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 14  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 15  
Proposal causes no interference.

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Interference to DTVBL7692 BL, scenario 16  
Proposal causes no interference.

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Interference to DTVBL48413 BL, scenario 1  
Proposal causes no interference.

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Interference to DTVBL48413 BL, scenario 2  
Proposal causes no interference.

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Interference to DTVBL48413 BL, scenario 3  
Proposal causes no interference.

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Interference to DTVBL48413 BL, scenario 4  
Proposal causes no interference.

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Interference to DTVBL48413 BL, scenario 5  
Proposal causes no interference.

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Interference to DTVBL48413 BL, scenario 6  
Proposal causes no interference.

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Interference to DTVBL48413 BL, scenario 7  
Proposal causes no interference.

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Interference to DTVBL48413 BL, scenario 8  
Proposal causes no interference.

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Interference to DTVBL48406 BL, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPXG-TV	D23	DT	BL	CONCORD, NH	DTVBL48406	
Undesireds:	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	134.1 km
	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	134.1
	WPX-TV	D22	DT	BL	BOSTON, MA	DTVBL7692	97.8
	WVMA-CD	D22	DC	BL	WINCHENDON, MA	DTVBL48413	86.7
	WNPI-DT	D23	DT	LIC	NORWOOD, NY	BLEDT20050715ABZ	318.6
	WFTY-DT	D23	DT	LIC	SMITHTOWN, NY	BLCDT20120427ABO	288.5
	WLNE-TV	D24	DT	BL	NEW BEDFORD, MA	DTVBL22591	146.7
	WPME	D24	DT	BL	LEWISTON, ME	DTVBL48408	109.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
19847.8	2,578,261	18099.9	2,512,562	17835.9	2,473,979	17831.9	2,473,979	0.02	0.00
Undesired				Total IX	Unique IX, before	Unique IX, after			
WLED-TV	D23	DT	BL	15.9	788	11.9	788		
WLED-TV	D23	DT	BL	19.8	788	15.8	788		

WBPX-TV D22 DT BL	72.4	31,519	68.4	30,353	68.4	30,353
WVMA-CD D22 DC BL	71.8	775	39.9	354	39.9	354
WFTY-DT D23 DT LIC	116.0	5,965	80.1	4,378	80.1	4,378
WPME D24 DT BL	27.9	1,123	27.9	1,123	27.9	1,123

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Interference to DTVBL48406 BL, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WPGX-TV	D23	DT	BL	CONCORD, NH	DTVBL48406	
Undesireds:	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	134.1 km
	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	134.1
	WBPX-TV	D22	DT	BL	BOSTON, MA	DTVBL7692	97.8
	WVMA-CD	D22	DC	BL	WINCHENDON, MA	DTVBL48413	86.7
	WNPI-DT	D23	DT	LIC	NORWOOD, NY	BLEDT20050715ABZ	318.6
	WFTY-DT	D23	DT	LIC	SMITHTOWN, NY	BLCDT20120427ABO	288.5
	WLNE-TV	D24	DT	BL	NEW BEDFORD, MA	DTVBL22591	146.7
	WPME	D24	DT	BL	LEWISTON, ME	DTVBL48408	109.1

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
19847.8	2,578,261	18099.9	2,512,562	17835.9	2,473,979	17831.9	2,473,979	0.02	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WLED-TV D23 DT BL	15.9	788	11.9	788		
WLED-TV D23 DT BL	19.8	788			15.8	788
WBPX-TV D22 DT BL	72.4	31,519	68.4	30,353	68.4	30,353
WVMA-CD D22 DC BL	71.8	775	39.9	354	39.9	354
WFTY-DT D23 DT LIC	116.0	5,965	80.1	4,378	80.1	4,378
WPME D24 DT BL	27.9	1,123	27.9	1,123	27.9	1,123

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Interference to BLEDT20050715ABZ LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNPI-DT	D23	DT	LIC	NORWOOD, NY	BLEDT20050715ABZ	
Undesireds:	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	248.2 km
	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	248.1
	WPGX-TV	D23	DT	BL	CONCORD, NH	DTVBL48406	318.6
	WETM-TV	D23	DT	BL	ELMIRA, NY	DTVBL60653	311.1
	WHSU-CD	D23	DC	BL	SYRACUSE, NY	DTVBL629	190.8
	CHCH-DT-1	D22	DT	LIC	OTTAWA, ON	BLANKCANADA201	98.0
	CKWS-DT-1	D23	DT	LIC	BRIGHTON, ON	BLANKCANADA165	238.9
	CIVP-DT	D23	DT	LIC	CHAPEAU, QC	BLANKCANADA258	235.5
	CICO-DT-24D24	DT	LIC		OTTAWA, ON	BLANKCANADA202	136.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
13240.6	167,931	12481.3	161,748	12477.3	161,748	12477.3	161,748	0.00	0.00
2516.4	127,337	2516.4	127,337	2516.4	127,337	2516.4	127,337	0.00	0.00 (in Canada)

Undesired	Total IX		Unique IX, before		Unique IX, after	
WLED-TV D23 DT BL	4.0	0	4.0	0		
WLED-TV D23 DT BL	4.0	0			4.0	0

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Interference to BLEDT20050715ABZ LIC, scenario 2

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNPI-DT	D23	DT	LIC	NORWOOD, NY	BLEDT20050715ABZ	
Undesireds:	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	248.2 km
	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	248.1
	WPGX-TV	D23	DT	BL	CONCORD, NH	DTVBL48406	318.6
	WETM-TV	D23	DT	BL	ELMIRA, NY	DTVBL60653	311.1

WHSU-CD	D23	DC	BL	SYRACUSE, NY	DTVBL629	190.8
CHCH-DT-1	D22	DT	LIC	OTTAWA, ON	BLANKCANADA201	98.0
CKWS-DT-1	D23	DT	LIC	BRIGHTON, ON	BLANKCANADA165	238.9
CIVP-DT	D23	DT	LIC	CHAPEAU, QC	BLANKCANADA258	235.5
CICO-DT-24D24	DT	LIC	OTTAWA, ON	BLANKCANADA202	136.9	

Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
13240.6	167,931	12481.3	161,748	12477.3	161,748	12477.3	161,748	0.00	0.00
2516.4	127,337	2516.4	127,337	2516.4	127,337	2516.4	127,337	0.00	0.00 (in Canada)

Undesired	Total IX		Unique IX, before		Unique IX, after	
WLED-TV D23 DT BL	4.0	0	4.0	0		
WLED-TV D23 DT BL	4.0	0			4.0	0

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Interference to BLCDT20120427ABO LIC, scenario 1

Proposal causes no interference.

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Interference to BLCDT20120427ABO LIC, scenario 2

Proposal causes no interference.

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Interference to BLCDT20120427ABO LIC, scenario 3

Proposal causes no interference.

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Interference to BLCDT20120427ABO LIC, scenario 4

Proposal causes no interference.

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Interference to DTVBL48408 BL, scenario 1

Proposal causes no interference.

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Interference to BLANKCANADA311 LIC, scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	CIVS-DT	D24	DT	LIC	SHERBROOKE, QC	BLANKCANADA311	
Undesireds:	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	113.8 km
	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	113.8
	WPME	D24	DT	BL	LEWISTON, ME	DTVBL48408	222.1
	WTEN	D24	DT	BL	ALBANY, NY	DTVBL74422	330.4
	CKLT-TV-1	D24	DT	LIC	FLORENCEVILLE, NB	BLANKCANADA124	382.7
	CICO-DT-24D24	DT	LIC	OTTAWA, ON	BLANKCANADA202	282.4	
	CJPM-DT	D24	DT	LIC	CHICOUTIMI, QC	BLANKCANADA259	355.1
	CIMT-DT-5	D24	DC	LIC	ST URBAIN, QC	BLANKCANLP417	280.3
	CBVT-DT	D25	DT	LIC	QUBEC, QC	BLANKCANADA287	177.5

Service area	Terrain-limited		IX-free, before		IX-free, after		Percent New IX		
8023.2	101,414	5953.3	70,553	5813.7	68,630	5813.7	68,630	0.00	0.00 (in U.S.)
18533.1	980,250	18040.9	959,092	18020.8	959,092	18020.8	959,092	0.00	0.00

Undesired	Total IX		Unique IX, before		Unique IX, after	
WLED-TV D23 DT BL	55.6	462	51.6	423		(in U.S.)
WLED-TV D23 DT BL	55.6	462			51.6	423 (in U.S.)
WTEN D24 DT BL	67.9	1,034	51.8	537	51.8	537 (in U.S.)
WTEN D24 DT BL	4.0	0	4.0	0	4.0	0
CICO-DT-24 D24 DT LIC	32.2	924	20.1	466	20.1	466 (in U.S.)
CICO-DT-24 D24 DT LIC	8.0	0	8.0	0	8.0	0
CBVT-DT D25 DT LIC	8.1	0	8.1	0	8.1	0

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Interference to proposal, scenario 1

1.66% interference

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	
Undesireds:	WVMA-CD	D22	DC	BL	WINCHENDON, MA	DTVBL48413	155.2 km
	WPXG-TV	D23	DT	BL	CONCORD, NH	DTVBL48406	134.1
	WNPI-DT	D23	DT	LIC	NORWOOD, NY	BLEDT20050715ABZ	248.1
	WHSU-CD	D23	DC	BL	SYRACUSE, NY	DTVBL629	383.8
	WPME	D24	DT	BL	LEWISTON, ME	DTVBL48408	125.6
	CIVS-DT	D24	DT	LIC	SHERBROOKE, QC	BLANKCANADA311	113.8

Service area		Terrain-limited			IX-free	Percent IX		
22843.7	342,150	13933.0	180,540	13529.0	177,536	2.90	1.66	
561.7	7,492	159.7	2,835	147.6	2,835	7.57	0.00	(in Canada)

Undesired		Total IX			Unique IX	Prct Unique IX		
WPXG-TV	D23 DT BL	327.9	2,092	299.8	1,737	2.15	0.96	
WPXG-TV	D23 DT BL	8.1	0	0.0	0	0.00	0.00	(in Canada)
WPME	D24 DT BL	8.0	249	0.0	0	0.00	0.00	
CIVS-DT	D24 DT LIC	96.2	1,018	76.1	912	0.55	0.51	
CIVS-DT	D24 DT LIC	12.1	0	4.0	0	2.52	0.00	(in Canada)