INTERFERENCE ANALYSIS FOR PROPOSED W38DL-D, ADAMS, MA, CHANNEL 35, DISPLACEMENT FACILITY

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tvstudy v2.2.5 (4uoc83)
Database: localhost,  Study: w38dl35p8,  Model: Longley-Rice

Study build station data: LMS TV 2018-04-30 #182

    Proposal: W38DL35P8 D35 LD APP ADAMS, MA
 File number: w38dl35p8
 Facility ID: 73358
Station data: User record
   Record ID: 2714
     Country: U.S.

Search options:
Baseline record excluded if station has CP

Stations potentially affected by proposal:

IX   Call      Chan       Svc Status  City, State               File Number            Distance
No   W20CM     N20-       TX  LIC     PORT JERVIS, NY           BLTTL20071129AIS       188.6 km
No   W21CQ     N21+       TX  LIC     BENNINGTON, VT            BLTTL20061201AAG        51.5
No   W28AJ     N28z       TX  LIC     ALLINGTOWN, CT            BLTTL20010608AAO       150.5
Yes  WTIC-TV   D34        DT  CP      HARTFORD, CT              BLANK0000025068        107.4
No   WTXX-LD   D34        LD  LIC     New Haven, CT             BLANK0000022340        135.0
Yes  WFXT      D34        DT  CP      BOSTON, MA                BLANK0000034907        164.2
No   WPXT      D34        DT  CP      PORTLAND, ME              BLANK0000034514        266.7
No   WPXN-TV   D34        DT  CP      NEW YORK, NY              BLANK0000034356        225.1
No   WYCI      D34        DT  CP      SARANAC LAKE, NY          BLANK0000034619        219.1
Yes  WFXV      D34        DT  CP      UTICA, NY                 BLANK0000029986        172.9
No   WSWB      D34        DT  CP      SCRANTON, PA              BLANK0000034421        250.0
No   WCRN-LD   N34+       TX  LIC     PROVIDENCE, RI            BLTTL19960130JB        110.4
Yes  WHDH      D35        DT  CP      BOSTON, MA                BLANK0000024842        164.1
No   WFYW-LP   D35-       LD  APP     FAIRFIELD/WATERVILLE, ME  BLANK0000030286        349.6
Yes  WNJU      D35        DT  CP      LINDEN, NJ                BLANK0000053139        225.1
Yes  W35DK-D   D35z       LD  LIC     SUSSEX, NJ                BLANK0000016552        201.0
No   WENY-TV   D35        DT  CP      ELMIRA, NY                BLANK0000034793        325.6
No   WNYX-LD   D35        LD  LIC     NEW YORK, NY              BLDTL20090908ACQ       219.7
No   WWLF-LP   D35z       LD  APP     Syracuse, NY              BLANK0000053619        248.7
No   WWLF-LP   N35z       TX  LIC     Syracuse, NY              BLTTA20050922ACH       248.7
No   WNYF-CD   D35        DC  LIC     WATERTOWN, NY             BLDTL20090924ABW       253.6
No   WGAL      D35        LD  APP     LANCASTER, PA             BLANK0000053203        399.7
No   WFPA-CD   D35        DC  CP      PHILADELPHIA, PA          BLANK0000034670        336.1
Yes  WFSB      D36        DT  CP      HARTFORD, CT              BLANK0000024832        100.4
No   WCEA-LD   D36        LD  APP     BOSTON, MA                BLANK0000053501        174.5
No   WMEA-TV   D36        DT  CP      BIDDEFORD, ME             BLANK0000034397        210.7
No   W50DP-D   D36        LD  APP     HANOVER, NH               BLANK0000052528        144.7
No   WCBS-TV   D36        DT  CP      NEW YORK, NY              BLANK0000033867        225.1
No   WCFE-TV   D36        DT  CP      PLATTSBURGH, NY           BLANK0000034025        235.9
No   WSPX-TV   D36        DT  CP      SYRACUSE, NY              BLANK0000029579        245.8
Yes  WNGN-LD   D36        LD  APP     TROY, NY                  BLANK0000051693         51.5
No   WNGN-LD   N38-       TX  LIC     TROY, NY                  BLTTL20070904ABG        41.0
No   W42AE     N42z       TX  LIC     POUGHKEEPSIE, NY          BLTTL20040225AAW       122.7

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

    Channel: D35
       Mask: Stringent
   Latitude:  42 38 14.00 N (NAD83)
  Longitude:  73 10  6.00 W
Height AMSL: 1105.0 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: Omnidirectional
Elev Pattrn: Generic
  Elec Tilt: 1.75

50.8 dBu contour:
Azimuth      ERP       HAAT   Distance
  0.0 deg   15.0 kW   617.7 m   68.2 km
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45.0	15.0	605.9	67.9
90.0	15.0	630.8	68.6
135.0	15.0	608.8	68.0
180.0	15.0	623.1	68.4
225.0	15.0	573.7	66.9
270.0	15.0	648.3	69.0
315.0	15.0	727.6	70.8

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 629 m

Proposal 25.77 dBu contour does not cross Canadian border
Distance to Canadian border: 264.1 km

Distance to Mexican border: 2843.3 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 276.6 degrees Distance: 335.7 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 275.0 degrees Distance: 2671.1 km

Study cell size: 1.00 km
Profile point spacing: 0.10 km (Higher resolution terrain profile point spacing is requested.)

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000025068 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	
Undesireds:	W38DL35P8	D35	LD	APP	ADAMS, MA	w38dl35p8	107.4 km
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	0.0
	WCVB-TV	D33	DT	CP	BOSTON, MA	BLANK0000034567	148.0
	WCBS-TV	D33	DT	LIC	NEW YORK, NY	BLANK0000048556	147.9
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000034931	273.8
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000034907	149.0
	WPXT	D34	DT	CP	PORTLAND, ME	BLANK0000034514	314.2
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000034356	147.9
	WYCI	D34	DT	CP	SARANAC LAKE, NY	BLANK0000034619	326.3
	WFXV	D34	DT	CP	UTICA, NY	BLANK0000029986	250.3
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000034421	242.7
	WHDH	D35	DT	CP	BOSTON, MA	BLANK0000024842	149.6
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000053139	147.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
32571.1	5,324,514	29598.6	4,853,102	26545.6	4,244,908	26334.9	4,238,390	0.79	0.15

Undesired	Total IX		Unique IX, before		Unique IX, after	
W38DL35P8 D35 LD APP	293.4	8,419			210.7	6,518
WCCT-TV D33 DT CP	11.1	4,005	5.0	2,177	5.0	2,177
WCVB-TV D33 DT CP	222.7	51,272	6.0	669	6.0	669
WCBS-TV D33 DT LIC	142.5	44,334	0.0	0	0.0	0
WPPX-TV D34 DT CP	34.1	6,135	0.0	0	0.0	0
WFXT D34 DT CP	1912.9	358,856	1053.8	135,597	1031.6	135,059
WPXT D34 DT CP	54.9	13,228	5.0	238	5.0	238
WPXN-TV D34 DT CP	1798.9	448,956	972.1	212,566	949.9	211,733
WYCI D34 DT CP	1.0	0	0.0	0	0.0	0
WFXV D34 DT CP	91.6	6,669	53.4	3,197	37.2	3,052
WSWB D34 DT CP	24.0	3,499	2.0	1,279	2.0	1,279
WHDH D35 DT CP	201.7	45,254	2.0	151	2.0	151
WNJU D35 DT CP	187.0	67,019	0.0	0	0.0	0

Interference to BLANK0000034907 CP scenario 1

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	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000034907	
Undesireds:	W38DL35P8	D35	LD	APP	ADAMS, MA	w38dl35p8	164.2 km
	WCCT-TV	D33	DT	CP	WATERBURY, CT	BLANK0000034241	149.0
	WCVB-TV	D33	DT	CP	BOSTON, MA	BLANK0000034567	1.7
	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	149.0
	WPXT	D34	DT	CP	PORTLAND, ME	BLANK0000034514	186.7
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000034356	292.1
	WYCI	D34	DT	CP	SARANAC LAKE, NY	BLANK0000034619	321.0
	WFXV	D34	DT	CP	UTICA, NY	BLANK0000029986	336.4
	WHDH	D35	DT	CP	BOSTON, MA	BLANK0000024842	0.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
30728.0	7,497,085	29617.6	7,413,235	27474.8	7,236,024	27452.6	7,234,796	0.08	0.02

Undesired	Total IX	Unique IX, before		Unique IX, after	
W38DL35P8 D35 LD APP	79.6	6,033		22.2	1,228
WCCT-TV D33 DT CP	27.0	1,107	0.0	0	0.0	0
WCVB-TV D33 DT CP	51.2	2,506	19.1	1,185	19.1	1,185
WTIC-TV D34 DT CP	1347.3	135,810	1139.7	106,123	1098.3	101,956
WPXT D34 DT CP	930.9	64,104	757.3	37,978	757.3	37,978
WPXN-TV D34 DT CP	45.1	5,909	4.0	734	3.0	623
WYCI D34 DT CP	4.0	86	1.0	50	1.0	50
WFXV D34 DT CP	19.1	574	2.0	40	2.0	40
WHDH D35 DT CP	11.1	1,245	1.0	74	1.0	74

Interference to BLANK0000029986 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFXV	D34	DT	CP	UTICA, NY	BLANK0000029986	
Undesireds:	W38DL35P8	D35	LD	APP	ADAMS, MA	w38dl35p8	172.9 km
	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	250.3
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000034907	336.4
	WKBW-TV	D34	DT	CP	BUFFALO, NY	BLANK0000034829	286.1
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000034356	286.9
	WYCI	D34	DT	CP	SARANAC LAKE, NY	BLANK0000034619	199.3
	WSWB	D34	DT	CP	SCRANTON, PA	BLANK0000034421	195.3
	WNYF-CD	D35	DC	LIC	WATERTOWN, NY	BLDTL20090924ABW	100.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
21361.7	697,218	19455.2	621,596	18993.3	614,417	18977.2	613,910	0.08	0.08

Undesired	Total IX	Unique IX, before		Unique IX, after	
W38DL35P8 D35 LD APP	25.1	1,240		16.1	507
WTIC-TV D34 DT CP	45.2	1,590	34.2	924	27.1	374
WFXT D34 DT CP	15.1	633	6.0	174	6.0	174
WKBW-TV D34 DT CP	62.6	1,362	33.2	1,092	33.2	1,092
WPXN-TV D34 DT CP	2.0	8	1.0	0	1.0	0
WYCI D34 DT CP	120.5	2,119	28.3	1,138	28.3	1,138
WSWB D34 DT CP	163.7	1,973	97.0	1,058	97.0	1,058
WNYF-CD D35 DC LIC	215.7	1,822	142.8	1,050	142.8	1,050

Interference to BLANK0000024842 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WHDH	D35	DT	CP	BOSTON, MA	BLANK0000024842	
Undesireds:	W38DL35P8	D35	LD	APP	ADAMS, MA	w38dl35p8	164.1 km
	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	149.6
	WFXT	D34	DT	CP	BOSTON, MA	BLANK0000034907	0.9
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000053139	292.8
	WFSB	D36	DT	CP	HARTFORD, CT	BLANK0000024832	144.1
	WMEA-TV	D36	DT	CP	BIDDEFORD, ME	BLANK0000034397	127.4

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
29997.5	7,444,130	28943.2	7,368,724	28682.5	7,352,686	28315.1	7,326,182	1.28	0.36

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Undesired		Total IX	Unique IX, before		Unique IX, after	
W38DL35P8 D35 LD APP	436.6	32,096			367.5	26,504
WTIC-TV D34 DT CP	28.0	1,011	4.0	157	1.0	91
WFXT D34 DT CP	79.2	1,056	78.2	1,056	77.2	972
WNJU D35 DT CP	108.3	11,196	88.3	10,532	45.2	5,992
WFSB D36 DT CP	13.0	453	3.0	46	0.0	0
WMEA-TV D36 DT CP	63.2	3,393	62.2	3,393	61.2	3,329

Interference to BLANK0000053139 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000053139	
Undesireds:	W38DL35P8	D35	LD	APP	ADAMS, MA	w38dl35p8	225.1 km
	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	147.9
	WPPX-TV	D34	DT	CP	WILMINGTON, DE	BLANK0000034931	127.8
	WHDH	D35	DT	CP	BOSTON, MA	BLANK0000024842	292.8
	WENY-TV	D35	DT	CP	ELMIRA, NY	BLANK0000034793	300.7
	WFPA-CD	D35	DC	CP	PHILADELPHIA, PA	BLANK0000034670	127.6
	WPXW-TV	D35	DT	CP	MANASSAS, VA	BLANK0000034923	326.9
	WFSB	D36	DT	CP	HARTFORD, CT	BLANK0000024832	155.3
	WCBS-TV	D36	DT	CP	NEW YORK, NY	BLANK0000033867	0.0

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
37554.3	21,934,510	35334.0	21,405,662	34453.1	21,109,460	34187.5	21,071,409	0.77	0.18

Undesired		Total IX	Unique IX, before		Unique IX, after	
W38DL35P8 D35 LD APP	317.8	52,786			265.6	38,051
WTIC-TV D34 DT CP	1.0	3,299	0.0	0	0.0	0
WPPX-TV D34 DT CP	362.3	176,960	8.0	1,961	8.0	1,961
WHDH D35 DT CP	109.1	28,228	108.1	24,929	62.9	10,250
WENY-TV D35 DT CP	15.1	241	14.1	241	7.1	185
WFPA-CD D35 DC CP	655.9	238,725	289.7	61,512	289.7	61,512
WPXW-TV D35 DT CP	162.0	53,064	72.7	18,201	72.7	18,201
WFSB D36 DT CP	1.0	3,299	0.0	0	0.0	0
WCBS-TV D36 DT CP	20.0	8,846	20.0	8,846	20.0	8,846

Interference to BLANK0000016552 LIC scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W35DK-D	D35z	LD	LIC	SUSSEX, NJ	BLANK0000016552	
Undesireds:	W38DL35P8	D35	LD	APP	ADAMS, MA	w38dl35p8	201.0 km
	WPXN-TV	D34	DT	CP	NEW YORK, NY	BLANK0000034356	65.1
	W34DI-D	D34+	LD	LIC	PORT JERVIS, NY	BLANK0000048491	46.1
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000053139	65.1
	WNYX-LD	D35	LD	LIC	NEW YORK, NY	BLDTL20090908ACQ	66.6
	WWLF-LP	D35z	LD	APP	Syracuse, NY	BLANK0000053619	251.6
	WCBS-TV	D36	DT	CP	NEW YORK, NY	BLANK0000033867	65.1
	W36DO-D	D36	LD	LIC	DARBY, PA	BLDTT20110711ACA	135.9

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
5257.0	1,188,925	4064.9	729,659	3674.3	654,570	3673.3	654,570	0.03	0.00

Undesired		Total IX	Unique IX, before		Unique IX, after	
W38DL35P8 D35 LD APP	6.0	637			1.0	0
WPXN-TV D34 DT CP	29.8	15,373	0.0	0	0.0	0
WNJU D35 DT CP	385.6	73,104	300.8	42,761	296.8	42,547
WNYX-LD D35 LD LIC	72.9	23,324	5.0	1,985	5.0	1,985
WCBS-TV D36 DT CP	49.8	22,136	0.0	0	0.0	0

Interference to BLANK0000024832 CP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WFSB	D36	DT	CP	HARTFORD, CT	BLANK0000024832	
Undesireds:	W38DL35P8	D35	LD	APP	ADAMS, MA	w38dl35p8	100.4 km
	WHDH	D35	DT	CP	BOSTON, MA	BLANK0000024842	144.1
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000053139	155.3

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WMEA-TV	D36	DT	CP	BIDDEFORD, ME	BLANK0000034397	245.1
WMGM-TV	D36	DT	LIC	WILDWOOD, NJ	BLANK0000035355	338.0
WCBS-TV	D36	DT	CP	NEW YORK, NY	BLANK0000033867	155.3
WSPX-TV	D36	DT	CP	SYRACUSE, NY	BLANK0000029579	315.4
WITF-TV	D36	DT	APP	HARRISBURG, PA	BLANK0000035782	375.8

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
27009.6	4,757,787	24771.9	4,430,761	21087.7	3,856,126	20951.9	3,853,051	0.64	0.08

Undesired		Total IX		Unique IX, before		Unique IX, after	
W38DL35P8 D35 LD APP	179.3	3,910				135.9	3,075
WHDH D35 DT CP	101.7	11,742		20.0	1,316	20.0	1,316
WNJU D35 DT CP	219.4	90,107		0.0	0	0.0	0
WMEA-TV D36 DT CP	27.9	5,134		4.0	370	4.0	370
WMGM-TV D36 DT LIC	14.2	4,388		1.0	709	1.0	709
WCBS-TV D36 DT CP	3653.2	571,959		3337.0	468,742	3299.6	467,945
WSPX-TV D36 DT CP	13.1	172		4.1	0	1.0	0

Interference to BLANK0000051693 APP scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	WNGN-LD	D36	LD	APP	TROY, NY	BLANK0000051693	
Undesireds:	W38DL35P8	D35	LD	APP	ADAMS, MA	w38dl35p8	51.5 km
	WFSB	D36	DT	CP	HARTFORD, CT	BLANK0000024832	150.4
	WCBS-TV	D36	DT	CP	NEW YORK, NY	BLANK0000033867	259.6
	WCFE-TV	D36	DT	CP	PLATTSBURGH, NY	BLANK0000034025	188.4
	WSPX-TV	D36	DT	CP	SYRACUSE, NY	BLANK0000029579	207.2

Service area		Terrain-limited		IX-free, before		IX-free, after		Percent New IX	
7381.0	947,554	6457.6	903,261	6400.5	901,069	6307.1	895,585	1.46	0.61

Undesired		Total IX		Unique IX, before		Unique IX, after	
W38DL35P8 D35 LD APP	106.5	5,836				93.4	5,484
WFSB D36 DT CP	38.0	1,363		31.0	770	25.0	702
WCBS-TV D36 DT CP	4.0	534		1.0	119	1.0	119
WCFE-TV D36 DT CP	5.0	203		2.0	187	2.0	187
WSPX-TV D36 DT CP	21.1	701		13.1	507	7.0	223

Interference to proposal scenario 1

	Call	Chan	Svc	Status	City, State	File Number	Distance
Desired:	W38DL35P8	D35	LD	APP	ADAMS, MA	w38dl35p8	
Undesireds:	WTIC-TV	D34	DT	CP	HARTFORD, CT	BLANK0000025068	107.4 km
	WHDH	D35	DT	CP	BOSTON, MA	BLANK0000024842	164.1
	WNJU	D35	DT	CP	LINDEN, NJ	BLANK0000053139	225.1
	W35DK-D	D35z	LD	LIC	SUSSEX, NJ	BLANK0000016552	201.0
	WWLF-LP	D35z	LD	APP	Syracuse, NY	BLANK0000053619	248.7
	WFSB	D36	DT	CP	HARTFORD, CT	BLANK0000024832	100.4
	WNGN-LD	D36	LD	APP	TROY, NY	BLANK0000051693	51.5

Service area		Terrain-limited		IX-free		Percent IX	
14837.8	1,293,250	12151.0	1,036,300	11924.5	1,021,826	1.86	1.40

Undesired		Total IX		Unique IX		Prcnt Unique IX	
WTIC-TV D34 DT CP	35.9	3,033		11.0	637	0.09	0.06
WHDH D35 DT CP	66.3	3,357		51.3	2,240	0.42	0.22
WNJU D35 DT CP	36.2	3,430		29.1	2,452	0.24	0.24
WFSB D36 DT CP	34.9	3,218		11.0	878	0.09	0.08
WNGN-LD D36 LD APP	93.2	4,929		90.2	4,836	0.74	0.47
