Study created: 2018.03.09 17:18:17

Study build station data: LMS TV 2018-03-07 (42)

Proposal: WNGN-LD D23 LD LIC TROY, NY
File number: BLANK0000035004
Facility ID: 6762
Station data: User record
Record ID: 807
Country: U.S.

Build options:
Protect pre-transition records not on baseline channel
Protect baseline records from LPTV

Search options:
Non-U.S. records included

Stations potentially affected by proposal:

IX	Call	Chan	Svc	Status	City, State	File Number	Distance
No	W16AL	N16+	TX	LIC	BURLINGTON, VT	BLTT19940720IH	156.8 km
No	W21CQ	N21+	TX	LIC	BENNINGTON, VT	BLTTL20061201AAG	0.0
No	WUTH-CD	D22	DC	BL	HARTFORD, CT	DTVBL74214	169.3
No	WBPX-TV	D22	DT	CP	BOSTON, MA	BLANK0000034343	204.0
No	WBPX-TV	D22	DT	BL	BOSTON, MA	DTVBL7692	204.0
No	WGBY-TV	D22	DT	LIC	SPRINGFIELD, MA	BLEDT20090612ACH	112.3
No	WVMA-CD	D22	DC	CP	WINCHENDON, MA	BLANK0000033356	94.0
No	WVMA-CD	D22	DC	BL	WINCHENDON, MA	DTVBL48413	94.0
No	WLEK-LD	D22	LD	LIC	CONCORD, NH	BLANK0000004401	161.0
No	WEPT-CD	D22	DC	LIC	NEWBURGH, NY	BLANK0000001567	114.1
Yes	WCWN	D22	DT	CP	SCHENECTADY, NY	BLANK0000025129	59.1
Yes	WCWN	D22	DT	APP	SCHENECTADY, NY	BLANK0000033782	59.1
Yes	WCWN	D22	DT	BL	SCHENECTADY, NY	DTVBL73264	59.1
No	WTVU-CD	D22	DC	LIC	SYRACUSE, NY	BLDTA20130603AEQ	214.7
No	W22DO-D	D22	LD	LIC	UTICA, NY	BLDTT20111024AES	134.9
Yes	WCAX-TV	D22	DT	LIC	BURLINGTON, VT	BLANK0000001666	176.7
No	WPFO	D23	DT	LIC	WATERVILLE, ME	BLCDT20090612ABJ	309.7
No	WPXG-TV	D23	DT	CP	CONCORD, NH	BLANK0000027021	179.8
No	WPXG-TV	D23	DT	BL	CONCORD, NH	DTVBL48406	179.8
No	WLED-TV	D23	DT	CP	LITTLETON, NH	BLANK0000027323	206.3
No	WLED-TV	D23	DT	APP	LITTLETON, NH	BLANK0000034358	206.3
Yes	WLED-TV	D23	DT	BL	LITTLETON, NH	DTVBL69328	206.3
No	W48DP-D	D23	LD	APP	ATLANTIC CITY, NJ	BLANK0000045666	415.2
No	WNJS	D23	DT	CP	CAMDEN, NJ	BLANK0000034585	382.1

No	WNJS	D23	DT	BL	CAMDEN, NJ	DTVBL48481	382.1
No	WDVB-CD	D23	DC	LIC	EDISON, NJ	BLANK0000034577	255.4
No	WPXJ-TV	D23	DT	LIC	BATAVIA, NY	BLCDT20090612AHY	365.6
No	WBPN-LD	D23	LD	CP	BINGHAMTON, NY	BMPDTL20130212ABG	224.2
No	WETM-TV	D23	DT	CP	ELMIRA, NY	BLANK0000029984	292.2
No	WETM-TV	D23	DT	BL	ELMIRA, NY	DTVBL60653	292.2
Yes	WNPI-DT	D23	DT	LIC	NORWOOD, NY	BLEDT20050715ABZ	195.4
No	WFTY-DT	D23	DT	LIC	SMITHTOWN, NY	BLCDT20120427ABO	241.4
No	WHSU-CD	D23	DC	CP	SYRACUSE, NY	BLANK0000034940	214.7
No	WHSU-CD	D23	DC	BL	SYRACUSE, NY	DTVBL629	214.7
No	WXBU	D23	DT	LIC	LANCASTER, PA	BLCDT20040922AAC	391.8
No	WFXZ-CD	D24	DC	LIC	BOSTON, MA	BLANK0000001384	204.0
No	WLNE-TV	D24	DT	CP	NEW BEDFORD, MA	BLANK0000026599	223.9
No	WLNE-TV	D24	DT	APP	NEW BEDFORD, MA	BLANK0000034491	223.9
No	WLNE-TV	D24	DT	BL	NEW BEDFORD, MA	DTVBL22591	223.9
Yes	WTEN	D24	DT	CP	ALBANY, NY	BLANK0000034757	59.1
Yes	WTEN	D24	DT	BL	ALBANY, NY	DTVBL74422	59.1
No	WNYE-TV	D24	DT	APP	NEW YORK, NY	BLANK0000035705	254.5
No	WNYE-TV	D24	DT	LIC	NEW YORK, NY	BLEDT20071228ABM	254.5
No	WRGB	D24	LD	LIC	SCHENECTADY, NY	BLCDT20110523AEL	124.8
No	WSTM-TV	D24	DT	LIC	SYRACUSE, NY	BLCDT20090622AEM	211.1
No	WONO-CD	D24	DC	CP	SYRACUSE, ETC., NY	BLANK0000034941	214.7
Yes	WVTA	D24	DT	LIC	WINDSOR, VT	BLEDT20070307AAW	98.5
No	CKWS-DT-1	D23	DT	LIC	BRIGHTON, ON	BLANKCANADA165	362.3

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

```
    Channel: D23
       Mask: Full Service
   Latitude:  43  1 12.20 N (NAD83)
  Longitude:  73 31 26.40 W
Height AMSL: 451.3 m
       HAAT: 0.0 m
   Peak ERP: 15.0 kW
    Antenna: NIC-(4) BKU 2@50 2@310 (ID 1002599) 270.0 deg
Elev Pattrn: Generic
```

49.7 dBu contour:

Azimuth	ERP	HAAT	Distance
0.0 deg	6.34 kW	305.2 m	52.7 km
45.0	0.338	247.0	34.2

90.0	0.600	213.5	35.4
135.0	0.338	266.8	35.1
180.0	6.34	285.6	51.7
225.0	14.6	385.2	61.2
270.0	11.4	361.8	58.8
315.0	14.6	383.3	61.1

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 306 m

Proposal 24.66 dBu contour does not cross Canadian border
Distance to Canadian border: 220.6 km

Distance to Mexican border: 2842.7 km

Conditions at FCC monitoring station: Canandaigua NY
Bearing: 269.0 degrees Distance: 304.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 274.0 degrees Distance: 2638.8 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%

***IX check failure to BLANK0000025129 CP scenario 1, 0.86% interference caused*
***IX check failure to BLANK0000025129 CP scenario 2, 0.86% interference caused*
***IX check failure to BLANK0000025129 CP scenario 3, 0.86% interference caused*
***IX check failure to BLANK0000025129 CP scenario 4, 0.86% interference caused*
***IX check failure to BLANK0000025129 CP scenario 5, 0.87% interference caused*
***IX check failure to BLANK0000025129 CP scenario 6, 0.87% interference caused*
***IX check failure to BLANK0000025129 CP scenario 7, 0.87% interference caused*
***IX check failure to BLANK0000025129 CP scenario 8, 0.87% interference caused*
***IX check failure to BLANK0000025129 CP scenario 9, 0.86% interference caused*
***IX check failure to BLANK0000025129 CP scenario 10, 0.86% interference caused*
***IX check failure to BLANK0000025129 CP scenario 11, 0.86% interference caused*
***IX check failure to BLANK0000025129 CP scenario 12, 0.86% interference caused*
***IX check failure to BLANK0000025129 CP scenario 13, 0.87% interference caused*
***IX check failure to BLANK0000025129 CP scenario 14, 0.87% interference caused*
***IX check failure to BLANK0000025129 CP scenario 15, 0.87% interference caused*

**IX check failure to BLANK0000025129 CP scenario 16, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 17, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 18, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 19, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 20, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 21, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 22, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 23, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 24, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 25, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 26, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 27, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 28, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 29, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 30, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 31, 0.87% interference caused
**IX check failure to BLANK0000025129 CP scenario 32, 0.87% interference caused
**MX with BLANK0000033782 APP scenario 1, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 2, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 3, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 4, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 5, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 6, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 7, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 8, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 9, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 10, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 11, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 12, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 13, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 14, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 15, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 16, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 17, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 18, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 19, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 20, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 21, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 22, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 23, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 24, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 25, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 26, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 27, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 28, 0.62% interference caused

**MX with BLANK0000033782 APP scenario 29, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 30, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 31, 0.62% interference caused
**MX with BLANK0000033782 APP scenario 32, 0.62% interference caused
**IX check failure to DTVBL73264 BL scenario 1, 0.86% interference caused
**IX check failure to DTVBL73264 BL scenario 2, 0.86% interference caused
**IX check failure to DTVBL73264 BL scenario 3, 0.86% interference caused
**IX check failure to DTVBL73264 BL scenario 4, 0.86% interference caused
**IX check failure to DTVBL73264 BL scenario 5, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 6, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 7, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 8, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 9, 0.86% interference caused
**IX check failure to DTVBL73264 BL scenario 10, 0.86% interference caused
**IX check failure to DTVBL73264 BL scenario 11, 0.86% interference caused
**IX check failure to DTVBL73264 BL scenario 12, 0.86% interference caused
**IX check failure to DTVBL73264 BL scenario 13, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 14, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 15, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 16, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 17, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 18, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 19, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 20, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 21, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 22, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 23, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 24, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 25, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 26, 0.86% interference caused
**IX check failure to DTVBL73264 BL scenario 27, 0.86% interference caused
**IX check failure to DTVBL73264 BL scenario 28, 0.86% interference caused
**IX check failure to DTVBL73264 BL scenario 29, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 30, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 31, 0.87% interference caused
**IX check failure to DTVBL73264 BL scenario 32, 0.87% interference caused
**IX check failure to DTVBL74422 BL scenario 1, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 2, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 3, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 4, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 5, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 6, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 7, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 8, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 9, 0.66% interference caused

**IX check failure to DTVBL74422 BL scenario 10, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 11, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 12, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 13, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 14, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 15, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 16, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 17, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 18, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 19, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 20, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 21, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 22, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 23, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 24, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 25, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 26, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 27, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 28, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 29, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 30, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 31, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 32, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 33, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 34, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 35, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 36, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 37, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 38, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 39, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 40, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 41, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 42, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 43, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 44, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 45, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 46, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 47, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 48, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 49, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 50, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 51, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 52, 0.66% interference caused
**IX check failure to DTVBL74422 BL scenario 53, 0.71% interference caused
**IX check failure to DTVBL74422 BL scenario 54, 0.71% interference caused

***IX check failure to DTVBL74422 BL scenario 55, 0.71% interference caused*
***IX check failure to DTVBL74422 BL scenario 56, 0.71% interference caused*
***IX check failure to DTVBL74422 BL scenario 57, 0.66% interference caused*
***IX check failure to DTVBL74422 BL scenario 58, 0.66% interference caused*
***IX check failure to DTVBL74422 BL scenario 59, 0.66% interference caused*
***IX check failure to DTVBL74422 BL scenario 60, 0.66% interference caused*
***IX check failure to DTVBL74422 BL scenario 61, 0.71% interference caused*
***IX check failure to DTVBL74422 BL scenario 62, 0.71% interference caused*
***IX check failure to DTVBL74422 BL scenario 63, 0.71% interference caused*
***IX check failure to DTVBL74422 BL scenario 64, 0.71% interference caused*
***IX check failure to DTVBL74422 BL scenario 65, 0.66% interference caused*
***IX check failure to DTVBL74422 BL scenario 66, 0.66% interference caused*
***IX check failure to DTVBL74422 BL scenario 67, 0.66% interference caused*
***IX check failure to DTVBL74422 BL scenario 68, 0.66% interference caused*
***IX check failure to DTVBL74422 BL scenario 69, 0.71% interference caused*
***IX check failure to DTVBL74422 BL scenario 70, 0.71% interference caused*
***IX check failure to DTVBL74422 BL scenario 71, 0.71% interference caused*
***IX check failure to DTVBL74422 BL scenario 72, 0.71% interference caused*

---- Below is IX received by proposal BLANK0000035004 ----

Proposal receives 12.20% interference from scenario 1
***MX with BLANK0000034358 APP scenario 2, 12.20% interference received*
***MX with BLANK0000033782 APP scenario 3, 12.20% interference received*
***MX with scenario 4, 12.20% interference received*