Study created: 2020.04.13 21:14:45

Study build station data: LMS TV 2020-04-08

Proposal: W39BH D27+ LD CP CHAMPAIGN, IL

File number: BLANK0000053230 at 15 kW

Facility ID: 49185

Station data: User record

Record ID: 129

Country: U.S.

Build options:

Protect pre-transition records not on baseline channel

Stations potentially affected by proposal:

| IX | Call | Chan | Svc | Status | City, State | File Number | Distance |
|---|---|---|---|---|---|---|---|
| No | WPVN-CD | D26 | DC | LIC | CHICAGO, IL | BLANK0000106475 | 205.4 km |
| No | WPVN-CD | D26 | DC | CP | CHICAGO, IL | BLANK0000080446 | 205.4 |
| No | WBBM-TV | D26 | LD | LIC | CHICAGO, IL | BLCDT20140305ABH | 207.3 |
| No | WMBD-TV | D26 | DT | LIC | PEORIA, IL | BLANK0000098193 | 124.9 |
| No | WFIE | D26 | DT | LIC | EVANSVILLE, IN | BLANK0000087068 | 254.6 |
| No | WISH-TV | D26 | LD | CP | INDIANAPOLIS, IN | BLANK0000090627 | 174.5 |
| No | KPLR-TV | D26 | DT | APP | ST. LOUIS, MO | BLANK0000050068 | 247.8 |
| No | KPLR-TV | D26 | DT | LIC | ST. LOUIS, MO | BLCDT20030812ABY | 247.8 |
| No | KFXA | D27 | DT | LIC | CEDAR RAPIDS, IA | BLCDT20050713ABD | 390.6 |
| No | WEEJ-LD | D27 | LD | CP | JACKSONVILLE, IL | BLANK0000052931 | 120.3 |
| No | W27EN-D | D27 | LD | CP | MOUNT VERNON, IL | BLANK0000071886 | 203.3 |
| Yes | W27EQ-D | D27 | LD | CP | PEORIA, IL | BLANK0000071922 | 119.6 |

| | | | | | | |
|---|---|---|---|---|---|---|
| No | W27DF-D | D27 | LD | LIC | QUINCY, IL | BLANK0000023020 | 263.6 |
| No | W27EJ-D | D27 | LD | LIC | STERLING, IL | BLANK0000063145 | 229.7 |
| No | W40CN-D | D27 | DC | APP | SUGAR GROVE, IL | BLANK0000104087 | 204.3 |
| No | W40CN-D | D27 | DC | CP | SUGAR GROVE, IL | BLANK0000034531 | 195.8 |
| Yes | WTTV | D27 | DT | LIC | BLOOMINGTON, IN | BLANK0000086972 | 194.6 |
| No | W27DH-D | D27 | LD | LIC | EVANSVILLE, IN | BLANK0000081701 | 244.1 |
| No | WSOT-LD | D27 | LD | LIC | MARION, IN | BLDTL20111212AGP | 229.3 |
| No | WNDU-TV | D27 | DT | CP | SOUTH BEND, IN | BLANK0000025267 | 237.8 |
| No | WTVQ-DT | D27 | DT | LIC | LEXINGTON, KY | BLANK0000087240 | 403.7 |
| No | K27OS-D | D27 | LD | CP | ROLLA, MO | BNPDTL20090825BJV | 388.1 |
| No | KBGU-LD | D27 | LD | CP | ST. LOUIS, MO | BLANK0000051595 | 247.8 |
| No | WTTE | D27 | DT | LIC | COLUMBUS, OH | BLANK0000111620 | 444.1 |
| No | WPNM-LD | D27z | LD | LIC | Liepsic, OH | BLANK0000090626 | 382.5 |
| No | WKRN-TV | D27 | DT | LIC | NASHVILLE, TN | BLCDT20090624ABO | 467.9 |
| No | WVTV | D27 | DT | CP | MILWAUKEE, WI | BLANK0000082101 | 333.2 |
| Yes | WYZZ-TV | D28 | DT | LIC | BLOOMINGTON, IL | BLCDT20060609ABE | 99.7 |
| No | WRBU | D28 | DT | LIC | EAST ST. LOUIS, IL | BLANK0000108757 | 272.4 |
| No | W28EB-D | D28 | LD | CP | EFFINGHAM, IL | BMPDTL20111006ACQ | 126.3 |
| No | WIPX-TV | D28 | DT | LIC | BLOOMINGTON, IN | BLANK0000106045 | 194.8 |
| No | WSJV | D28 | DT | LIC | ELKHART, IN | BLCDT20100115AAE | 239.7 |
| No | WEVV-TV | D28 | DT | LIC | EVANSVILLE, IN | BLANK0000087480 | 254.0 |
| No | WUDZ-LD | D28 | LD | LIC | TERRE HAUTE, IN | BLANK0000010840 | 174.4 |

No non-directional AM stations found within 0.8 km

Directional AM stations within 3.2 km:

WILL 580 L DA2 D URBANA, IL BL20120719ADN

WILL 580 L DA2 N URBANA, IL BL20120719ADN

Record parameters as studied:

Channel: D27+

Mask: Full Service

Latitude: 40 6 33.70 N (NAD83)

Longitude: 88 14 5.60 W

Height AMSL: 298.0 m

HAAT: 0.0 m

Peak ERP: 15.0 kW

Antenna: Omnidirectional

Elev Pattrn: Generic

Elec Tilt: 1.00

50.0 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---|---|---|---|
| 0.0 deg | 15.0 kW | 72.8 m | 40.1 km |
| 45.0 | 15.0 | 80.5 | 41.2 |
| 90.0 | 15.0 | 87.0 | 42.2 |
| 135.0 | 15.0 | 84.3 | 41.8 |
| 180.0 | 15.0 | 81.3 | 41.4 |
| 225.0 | 15.0 | 82.4 | 41.5 |
| 270.0 | 15.0 | 79.1 | 41.0 |
| 315.0 | 15.0 | 59.7 | 38.0 |

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 78 m

Distance to Canadian border: 475.2 km

Distance to Mexican border: 1657.7 km

Conditions at FCC monitoring station: Allegan MI

Bearing: 33.7 degrees  Distance: 336.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 275.7 degrees  Distance: 1441.7 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%

No IX check failures found.