

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: TraverseCity19dlkwincSam460at180fB1, Model: Longley-Rice

Start: 2022.07.21 02:02:23

Study created: 2022.07.21 02:02:23

Study build station data: LMS TV 2022-07-21

Proposal: W19FB-D D19 LD LIC TRAVERSE CITY, MI

Facility ID: 186365

Station data: User record

Record ID: 2229

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 | W18ER-D | D18 | LD | LIC | MUSKEGON, MI | BLANK0000068548 | 164.0 km |
| No | WURO-LD | D18 | LD | LIC | ROSCOMMON, MI | BLDTL20141113AFT | 119.1 |
| No | WEYI-TV | D18 | DT | LIC | SAGINAW, MI | BLANK00000185142 | 243.9 |
| No | WPBN-TV | D18 | LD | LIC | TRAVERSE CITY, MI | BLANK00000143297 | 14.7 |
| No | WLUK-TV | D18 | DT | CP | GREEN BAY, WI | BLANK00000150484 | 172.8 |
| No | WGN-TV | D19 | DT | LIC | CHICAGO, IL | BLANK00000189522 | 352.1 |
| No | WXMI | D19 | DT | LIC | GRAND RAPIDS, MI | BLANK00000143294 | 233.6 |
| Yes | W19EZ-D | D19 | LD | LIC | HOUGHTON LAKE, MI | BLANK00000188890 | 82.4 |
| No | WZMQ | D19 | DT | CP | MARQUETTE, MI | BLANK00000036114 | 236.5 |
| No | WZMQ | D19 | DT | LIC | MARQUETTE, MI | BLCDT20100928AJX | 236.5 |
| No | WTPX-TV | D19 | DT | LIC | ANTIGO, WI | BLANK00000054113 | 282.5 |
| No | WMTV | D19 | DT | LIC | MADISON, WI | BLCDT20100413AAW | 347.2 |
| No | WLWK-CD | D19 | DC | LIC | STURGEON BAY, WI | BLANK00000072454 | 119.0 |
| No | W20EV-D | D20 | LD | LIC | HOUGHTON LAKE, MI | BLANK00000158719 | 97.1 |
| No | W20EV-D | D20 | LD | CP | HOUGHTON LAKE, MI | BLANK00000158783 | 93.0 |
| No | WCMW | D20 | DT | LIC | MANISTEE, MI | BLANK00000087364 | 87.0 |
| No | W20DT-D | D20 | LD | LIC | VANDERBILT, MI | BLANK00000193050 | 98.3 |
| No | WUWB-LD | D20 | LD | LIC | WEST BRANCH, MI | BLDTL20140708ABB | 147.7 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D19
Mask: Full Service
Latitude: 44 46 30.00 N (NAD83)
Longitude: 85 52 11.00 W
Height AMSL: 310.4 m (Adjusted based on actual ground elevation calculation)
HAAT: 0.0 m
Peak ERP: 1.00 kW
Antenna: SAM-SAM-460 (ID 1004146) 180.0 deg
Elev Pattn: Generic

49.3 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|----------|--------|----------|
| 0.0 deg | 0.000 kW | 51.9 m | 2.5 km |
| 45.0 | 0.000 | 91.9 | 3.2 |
| 90.0 | 0.000 | 23.6 | 1.9 |
| 135.0 | 0.006 | 48.7 | 6.7 |
| 180.0 | 1.00 | 51.0 | 24.0 |
| 225.0 | 0.006 | 48.4 | 6.7 |
| 270.0 | 0.000 | 46.0 | 2.4 |
| 315.0 | 0.000 | 82.8 | 3.1 |

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 56 m

Proposal 24.25 dBu contour does not cross Canadian border
Distance to Canadian border: 206.4 km

Distance to Mexican border: 2152.8 km

Conditions at FCC monitoring station: Allegan MI
Bearing: 181.7 degrees Distance: 241.2 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 258.8 degrees Distance: 1663.4 km

No land mobile station failures found

Study cell size: 1.00 km

Profile point spacing: 0.10 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 BLANK0000188890 LIC scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|--------------------|--------------|-----------------|--------|-----------------|-------------------|------------------|---------------------|
| Desired: | W19EZ-D | D19 | LD | LIC | HOUGHTON LAKE, MI | BLANK0000188890 | |
| Undesireds: | W19FB-D | D19 | LD | LIC | TRAVERSE CITY, MI | | 82.4 km |
| | WXMI | D19 | DT | LIC | GRAND RAPIDS, MI | BLANK0000143294 | 161.8 |
| | WZMQ | D19 | DT | CP | MARQUETTE, MI | BLANK0000036114 | 318.7 |
| | W20EV-D | D20 | LD | LIC | HOUGHTON LAKE, MI | BLANK0000158719 | 47.2 |
| | WCMW | D20 | DT | LIC | MANISTEE, MI | BLANK0000087364 | 79.4 |
| | | | | | | | |
| | Service area | Terrain-limited | | IX-free, before | | IX-free, after | Percent New |
| IX | 7175.8 | 122,767 | 6993.8 | 120,105 | 6663.5 | 114,976 | 6637.4 114,687 0.39 |
| 0.25 | | | | | | | |
| | | | | | | | |
| Undesired | | | | Total IX | Unique IX, before | Unique IX, after | |
| W19FB-D D19 LD LIC | 50.2 | | | 410 | | 26.1 | 289 |
| WXMI D19 DT LIC | 330.3 | | | 5,129 | 328.3 5,129 | 305.3 | 5,008 |
| WCMW D20 DT LIC | 2.0 | | | 0 | 0.0 0 | 0.0 | 0 |

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Interference to proposal scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|-------------------|-----------------|----------|
| Desired: | W19FB-D | D19 | LD | LIC | TRAVERSE CITY, MI | | |
| Undesireds: | WPBN-TV | D18 | LD | LIC | TRAVERSE CITY, MI | BLANK0000143297 | 14.7 km |

| | | | | | | |
|---------|-----|----|-----|-------------------|-----------------|-------|
| WXMI | D19 | DT | LIC | GRAND RAPIDS, MI | BLANK0000143294 | 233.6 |
| W19EZ-D | D19 | LD | LIC | HOUGHTON LAKE, MI | BLANK0000188890 | 82.4 |
| WZMQ | D19 | DT | CP | MARQUETTE, MI | BLANK0000036114 | 236.5 |
| WLWK-CD | D19 | DC | LIC | STURGEON BAY, WI | BLANK0000072454 | 119.0 |
| W20EV-D | D20 | LD | LIC | HOUGHTON LAKE, MI | BLANK0000158719 | 97.1 |

| | | | |
|------------------|------------------|------------------|----------------|
| Service area | Terrain-limited | IX-free | Percent IX |
| 291.9 8,086 | 289.9 8,080 | 283.9 7,980 | 2.09 1.24 |

| Undesired | Total IX | Unique IX | Prcnt Unique IX |
|--|----------|-----------|-----------------|
| WPBN-TV D18 LD LIC 2.0 44 1.0 28 0.35 0.35 | | | |
| WXMI D19 DT LIC 3.0 56 0.0 0 0.00 0.00 | | | |
| W19EZ-D D19 LD LIC 5.1 72 1.0 0 0.35 0.00 | | | |
| WLWK-CD D19 DC LIC 1.0 0 0.0 0 0.00 0.00 | | | |