

tvstudy v2.2.5 (4uoc83)

Database: localhost, Study: Byrom17d3kwTUA345IncT, Model: Longley-Rice

Start: 2021.06.24 10:27:04

Study created: 2021.06.24 10:27:04

Study build station data: LMS TV 2021-06-24

Proposal: W50ET-D D17 LD CP BYROMVILLE, GA

Facility ID: 186341

Station data: User record

Record ID: 332

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 | W16DV-D | D16 | LD | LIC | Alexander City, AL | BLANK0000071688 | 204.8 km |
| No | W16DV-D | D16 | LD | CP | Alexander City, AL | BLANK0000071736 | 157.7 |
| No | WALE-LD | D16 | LD | CP | MONTGOMERY, AL | BLANK0000053666 | 222.9 |
| No | WJHG-TV | D16 | DT | LIC | PANAMA CITY, FL | BLANK0000068516 | 253.2 |
| No | DDW38EM-D | D16 | LD | APP | ALBANY, GA | BLANK0000052733 | 79.3 |
| No | W16EE-D | D16 | LD | CP | AUGUSTA, GA | BLANK0000071936 | 215.8 |
| No | WRDP-LD | D16 | LD | CP | COLUMBUS, GA | BLANK0000074337 | 82.5 |
| No | DDW26DS-D | D16 | LD | APP | LA GRANGE, GA | BLANK0000053055 | 141.3 |
| No | WDMA-CD | D16 | DC | LIC | MACON, GA | BLANK0000074865 | 69.6 |
| No | WPXA-TV | D16 | DT | LIC | ROME, GA | BLANK0000081827 | 239.1 |
| No | WSAV-TV | D16 | DT | LIC | SAVANNAH, GA | BLANK0000055021 | 247.4 |
| No | WUOA-LD | D17 | LD | LIC | BIRMINGHAM, AL | BLANK0000011374 | 302.6 |
| No | WAAY-TV | D17 | DT | LIC | HUNTSVILLE, AL | BLANK0000071637 | 367.6 |
| No | WAAY-TV | D17 | DT | CP | HUNTSVILLE, AL | BLANK0000127697 | 367.6 |
| No | WALE-LD | D17 | LD | LIC | MONTGOMERY, AL | BLANK0000001706 | 222.9 |
| Yes | WGBP-TV | D17 | DD | LIC | OPELIKA, AL | BLANK0000129713 | 85.7 |
| No | WJMY-CD | D17 | DC | LIC | TUSCALOOSA, AL | BLANK0000086812 | 350.8 |
| No | WJVF-LD | D17 | LD | LIC | Jacksonville, FL | BLANK0000129911 | 274.4 |

| | | | | | | | |
|----|---------|------|----|-----|-----------------------|--------------------|-------|
| No | WJVF-LD | D17 | LD | CP | Jacksonville, FL | BLANK0000131804 | 313.2 |
| No | WFXU | D17 | DT | LIC | LIVE OAK, FL | BLANK0000112143 | 207.5 |
| No | W17EL-D | D17 | LD | CP | OCALA, FL | BNPDTL20090825AMY | 355.4 |
| No | W17EM-D | D17 | LD | CP | PANAMA CITY, FL | BNPDTL20090825BWX | 253.2 |
| No | W17EM-D | D17 | LD | APP | PANAMA CITY, FL | BLANK0000116864 | 253.2 |
| No | WEAR-TV | D17 | DT | LIC | PENSACOLA, FL | BLANK0000121008 | 397.6 |
| No | WEWA-LD | D17 | LD | LIC | WEWAHITCHKA, FL | BLANK0000081438 | 266.8 |
| No | WSB-TV | D17 | LD | CP | ATLANTA, GA | BLANK0000137672 | 187.2 |
| No | WJEA-LD | D17 | LD | CP | AUGUSTA, GA | BLANK0000072016 | 201.9 |
| No | W17DW-D | D17 | LD | CP | SOPERTON, GA | BNPDTL20100510AHD | 140.1 |
| No | WKSJ-LD | D17 | LD | CP | SUMMERVILLE/TRION, GA | BLANK0000074683 | 277.9 |
| No | W17DS-D | D17 | LD | CP | SYLVA, ETC, NC | BDCCDTT20120615ADA | 364.8 |
| No | WTAT-TV | D17 | DT | LIC | CHARLESTON, SC | BLANK0000118551 | 402.7 |
| No | WHNS | D17 | DT | LIC | GREENVILLE, SC | BLANK0000083635 | 345.3 |
| No | WDTT-LD | D17 | LD | LIC | KNOXVILLE, TN | BLANK0000136292 | 416.3 |
| No | WBMM | D18 | DT | LIC | TUSKEGEE, AL | BLANK0000081490 | 191.8 |
| No | WUEE-LD | D18 | LD | CP | ALBANY, GA | BLANK0000013290 | 91.7 |
| No | WUVG-DT | D18 | DT | LIC | ATHENS, GA | BLANK0000081094 | 177.5 |
| No | W18ED-D | D18 | LD | CP | CHULA, GA | BNPDTL20100510ABF | 86.0 |
| No | WPGA-LP | D18- | LD | CP | MACON, GA | BLANK0000053605 | 65.1 |
| No | WANX-LP | N19+ | TX | LIC | COLUMBUS, GA | BLTTL20070813AAT | 99.0 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D17
 Mask: Stringent
 Latitude: 32 15 1.70 N (NAD83)
 Longitude: 83 55 2.50 W
 Height AMSL: 141.0 m
 HAAT: 0.0 m
 Peak ERP: 3.00 kW
 Antenna: DIE-TUA (ID 120649) 345.0 deg
 Elev Pattn: Generic

49.0 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|---------|--------|----------|
| 0.0 deg | 2.47 kW | 21.2 m | 23.1 km |
| 45.0 | 0.122 | 12.3 | 11.1 |
| 90.0 | 0.012 | 15.5 | 6.3 |
| 135.0 | 0.008 | 31.4 | 5.7 |
| 180.0 | 0.008 | 40.5 | 6.6 |
| 225.0 | 0.016 | 44.2 | 8.0 |
| 270.0 | 0.012 | 44.8 | 7.5 |
| 315.0 | 1.46 | 30.3 | 20.7 |

Database HAAT does not agree with computed HAAT

Database HAAT: 0 m Computed HAAT: 30 m

Distance to Canadian border: 1053.4 km

Distance to Mexican border: 1441.2 km

Conditions at FCC monitoring station: Powder Springs GA

Bearing: 337.5 degrees Distance: 194.3 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:

Bearing: 300.7 degrees Distance: 2095.0 km

No land mobile station failures found

Proposal is not within the Offshore Radio Service protected area

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%

Interference to BLANK0000129713 LIC scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|--------------------|--------------|-----------|-----------------|-----------|-------------------|------------------|-----------------------------|
| Desired: | WGBP-TV | D17 | DD | LIC | OPELIKA, AL | BLANK0000129713 | |
| Undesireds: | W50ET-D | D17 | LD | CP | BYROMVILLE, GA | | 85.7 km |
| | WDMA-CD | D16 | DC | LIC | MACON, GA | BLANK0000074865 | 109.7 |
| | WAAY-TV | D17 | DT | LIC | HUNTSVILLE, AL | BLANK0000071637 | 296.1 |
| | WJMY-CD | D17 | DC | LIC | TUSCALOOSA, AL | BLANK0000086812 | 265.1 |
| | WEAR-TV | D17 | DT | LIC | PENSACOLA, FL | BLANK0000121008 | 343.9 |
| | WHNS | D17 | DT | LIC | GREENVILLE, SC | BLANK0000083635 | 354.3 |
| | WBMM | D18 | DT | LIC | TUSKEGEE, AL | BLANK0000081490 | 120.3 |
| | WUVG-DT | D18 | DT | LIC | ATHENS, GA | BLANK0000081094 | 149.8 |
| | | | | | | | |
| | Service area | | Terrain-limited | | IX-free, before | IX-free, after | Percent New IX |
| | 35996.5 | 1,195,691 | 35924.3 | 1,195,030 | 35594.0 | 1,190,632 | 35300.5 1,185,486 0.82 0.43 |
| | | | | | | | |
| Undesired | | | | Total IX | Unique IX, before | Unique IX, after | |
| W50ET-D D17 LD CP | | 293.5 | | 5,146 | | 293.5 | 5,146 |
| WDMA-CD D16 DC LIC | | 7.0 | | 1,121 | 5.0 947 | 5.0 | 947 |
| WAAY-TV D17 DT LIC | | 5.0 | | 79 | 4.0 52 | 4.0 | 52 |
| WJMY-CD D17 DC LIC | | 1.0 | | 6 | 0.0 0 | 0.0 | 0 |
| WEAR-TV D17 DT LIC | | 91.8 | | 850 | 62.7 379 | 62.7 | 379 |
| WHNS D17 DT LIC | | 3.0 | | 182 | 1.0 8 | 1.0 | 8 |
| WBMM D18 DT LIC | | 253.6 | | 2,641 | 225.5 2,197 | 225.5 | 2,197 |
| WUVG-DT D18 DT LIC | | 1.0 | | 170 | 1.0 170 | 1.0 | 170 |

Interference to BLANK0000129713 LIC scenario 2

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|----------------|-----------------|----------|
| Desired: | WGBP-TV | D17 | DD | LIC | OPELIKA, AL | BLANK0000129713 | |
| Undesireds: | W50ET-D | D17 | LD | CP | BYROMVILLE, GA | | 85.7 km |
| | WDMA-CD | D16 | DC | LIC | MACON, GA | BLANK0000074865 | 109.7 |
| | WAAY-TV | D17 | DT | CP | HUNTSVILLE, AL | BLANK0000127697 | 296.1 |
| | WJMY-CD | D17 | DC | LIC | TUSCALOOSA, AL | BLANK0000086812 | 265.1 |

| | | | | | | |
|---------|-----|----|-----|----------------|------------------|-------|
| WEAR-TV | D17 | DT | LIC | PENSACOLA, FL | BLANK00000121008 | 343.9 |
| WHNS | D17 | DT | LIC | GREENVILLE, SC | BLANK00000083635 | 354.3 |
| WBMM | D18 | DT | LIC | TUSKEGEE, AL | BLANK00000081490 | 120.3 |
| WUVG-DT | D18 | DT | LIC | ATHENS, GA | BLANK00000081094 | 149.8 |

| | | | | |
|-------------------|-------------------|-------------------|-------------------|----------------|
| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
| 35996.5 1,195,691 | 35924.3 1,195,030 | 35593.0 1,190,632 | 35299.5 1,185,486 | 0.82 0.43 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|-------------------------|----------|-------------------|------------------|
| W50ET-D D17 LD CP 293.5 | 5,146 | 293.5 5,146 | |
| WDMA-CD D16 DC LIC 7.0 | 1,121 | 5.0 947 | |
| WAAY-TV D17 DT CP 6.0 | 79 | 5.0 52 | |
| WJMY-CD D17 DC LIC 1.0 | 6 | 0.0 0 | |
| WEAR-TV D17 DT LIC 91.8 | 850 | 62.7 379 | |
| WHNS D17 DT LIC 3.0 | 182 | 1.0 8 | |
| WBMM D18 DT LIC 253.6 | 2,641 | 225.5 2,197 | |
| WUVG-DT D18 DT LIC 1.0 | 170 | 1.0 170 | |

Interference to proposal scenario 1
74.87% interference received

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|------------------|------------------|----------|
| | W50ET-D | D17 | LD | CP | BYROMVILLE, GA | | |
| Undesireds: | WGBP-TV | D17 | DD | LIC | OPELIKA, AL | BLANK00000129713 | 85.7 km |
| | WJVF-LD | D17 | LD | LIC | Jacksonville, FL | BLANK00000129911 | 274.4 |
| | W17EM-D | D17 | LD | CP | PANAMA CITY, FL | BNPDTL20090825BW | 253.2 |

| | | | |
|--------------|-----------------|-------------|-------------|
| Service area | Terrain-limited | IX-free | Percent IX |
| 530.8 9,430 | 530.8 9,430 | 152.8 2,370 | 71.21 74.87 |

| Undesired | Total IX | Unique IX | Prcnt Unique IX |
|--------------------------|----------|-------------|-----------------|
| WGBP-TV D17 DD LIC 378.0 | 7,060 | 378.0 7,060 | 71.21 74.87 |