

tvstudy v2.2.2  
Database: localhost, Study: v4.90, Model: Longley-Rice  
Start: 2017.06.21 08:43:04

Study created: 2017.06.21 08:43:01

Study build station data: LMS TV 2017-06-19 (29)

Proposal: WACS-TV D7 DT BL DAWSON, GA  
File number: DTVBL23930  
Facility ID: 23930  
Station data: User record  
Record ID: 930  
Country: U.S.  
Zone: III

Stations potentially affected:

| Call    | Chan | Svc | Status | City, State    | File Number      | Distance |
|---------|------|-----|--------|----------------|------------------|----------|
| WVTM-TV | D7   | DT  | BL     | BIRMINGHAM, AL | DTVBL74173       | 271.7 km |
| WGTV    | D7   | DT  | BL     | ATHENS, GA     | DTVBL23948       | 211.1    |
| WXGA-TV | D7   | DT  | BL     | WAYCROSS, GA   | DTVBL23929       | 203.7    |
| WDAM-TV | D7   | DT  | LIC    | LAUREL, MS     | BLCDT20100129ABY | 450.6    |
| WOLO-TV | D7   | DT  | BL     | COLUMBIA, SC   | DTVBL60963       | 428.2    |
| WKNX-TV | D7   | DT  | LIC    | KNOXVILLE, TN  | BLCDT20040810ABE | 456.3    |
| WSFA    | D8   | DT  | BL     | MONTGOMERY, AL | DTVBL13993       | 151.8    |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D7  
Latitude: 31 56 12.40 N (NAD83)  
Longitude: 84 33 12.80 W  
Height AMSL: 466.2 m  
HAAT: 333.8 m  
Peak ERP: 4.90 kW  
Antenna: THV-5A7-R C170 0.0 deg

36.0 dBu contour:

| Azimuth | ERP     | HAAT    | Distance |
|---------|---------|---------|----------|
| 0.0 deg | 4.39 kW | 333.5 m | 88.5 km  |
| 45.0    | 4.17    | 335.2   | 88.2     |
| 90.0    | 4.89    | 352.6   | 90.7     |
| 135.0   | 2.97    | 337.5   | 85.8     |
| 180.0   | 0.250   | 342.3   | 67.0     |
| 225.0   | 0.192   | 331.9   | 64.2     |
| 270.0   | 1.71    | 323.1   | 80.5     |
| 315.0   | 4.74    | 314.5   | 87.7     |

Proposal service area is within baseline plus 1.0%  
Proposal service area population is more than 95.0% of baseline

Distance to Canadian border: 1095.3 km

Distance to Mexican border: 1372.1 km

Conditions at FCC monitoring station: Powder Springs GA  
Bearing: 355.8 degrees Distance: 214.6 km  
ERP: 4.47 kW Field strength: 3.4 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 301.9 degrees    Distance: 2061.9 km

Study cell size: 2.00 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%

Interference to DTVBL74173 BL, scenario 1

|             |              |                 |           |                 |                |                  |           |                |       |
|-------------|--------------|-----------------|-----------|-----------------|----------------|------------------|-----------|----------------|-------|
|             | Call         | Chan            | Svc       | Status          | City, State    | File Number      | Distance  |                |       |
| Desired:    | WVTM-TV      | D7              | DT        | BL              | BIRMINGHAM, AL | DTVBL74173       |           |                |       |
| Undesireds: | WACS-TV      | D7              | DT        | BL              | DAWSON, GA     | DTVBL23930       | 271.6 km  |                |       |
|             | WACS-TV      | D7              | DT        | BL              | DAWSON, GA     | DTVBL23930       | 271.7     |                |       |
|             | WGTV         | D7              | DT        | BL              | ATHENS, GA     | DTVBL23948       | 247.9     |                |       |
|             | WDAM-TV      | D7              | DT        | LIC             | LAUREL, MS     | BLCDT20100129ABY | 325.1     |                |       |
|             | WKNX-TV      | D7              | DT        | LIC             | KNOXVILLE, TN  | BLCDT20040810ABE | 383.1     |                |       |
|             | WNPT         | D7              | DT        | BL              | NASHVILLE, TN  | DTVBL41398       | 284.2     |                |       |
|             | WSFA         | D8              | DT        | BL              | MONTGOMERY, AL | DTVBL13993       | 178.6     |                |       |
|             |              |                 |           |                 |                |                  |           |                |       |
|             | Service area | Terrain-limited |           | IX-free, before |                | IX-free, after   |           | Percent New IX |       |
| 34770.8     | 1,878,751    | 32374.0         | 1,801,754 | 31256.6         | 1,763,759      | 31256.6          | 1,764,397 | -0.00          | -0.04 |

|                   |       |        |          |                   |       |                  |  |
|-------------------|-------|--------|----------|-------------------|-------|------------------|--|
| Undesired         |       |        | Total IX | Unique IX, before |       | Unique IX, after |  |
| WACS-TV D7 DT BL  | 192.2 | 4,382  | 36.0     | 835               |       |                  |  |
| WACS-TV D7 DT BL  | 208.3 | 4,909  |          |                   | 36.0  | 197              |  |
| WGTV D7 DT BL     | 496.4 | 24,949 | 268.2    | 12,277            | 260.1 | 12,451           |  |
| WDAM-TV D7 DT LIC | 280.3 | 3,128  | 264.2    | 2,995             | 264.2 | 2,995            |  |
| WKNX-TV D7 DT LIC | 44.0  | 7,587  | 4.0      | 162               | 4.0   | 162              |  |
| WNPT D7 DT BL     | 171.9 | 11,499 | 115.9    | 5,670             | 111.8 | 4,505            |  |
| WSFA D8 DT BL     | 241.0 | 4,239  | 192.8    | 3,264             | 192.8 | 3,264            |  |

Interference to DTVBL23948 BL, scenario 1

|             | Call    | Chan | Svc | Status | City, State            | File Number      | Distance |
|-------------|---------|------|-----|--------|------------------------|------------------|----------|
| Desired:    | WGTV    | D7   | DT  | BL     | ATHENS, GA             | DTVBL23948       |          |
| Undesireds: | WACS-TV | D7   | DT  | BL     | DAWSON, GA             | DTVBL23930       | 211.1 km |
|             | WACS-TV | D7   | DT  | BL     | DAWSON, GA             | DTVBL23930       | 211.1    |
|             | WVTM-TV | D7   | DT  | BL     | BIRMINGHAM, AL         | DTVBL74173       | 247.9    |
|             | WXGA-TV | D7   | DT  | BL     | WAYCROSS, GA           | DTVBL23929       | 322.7    |
|             | WOLO-TV | D7   | DT  | BL     | COLUMBIA, SC           | DTVBL60963       | 313.5    |
|             | WKNX-TV | D7   | DT  | LIC    | KNOXVILLE, TN          | BLCDT20040810ABE | 245.8    |
|             | WNPT    | D7   | DT  | BL     | NASHVILLE, TN          | DTVBL41398       | 349.3    |
|             | WKIN-CD | D7   | DC  | LIC    | WEBER CY,VA-KPT,TN, VA | BLANK0000001494  | 334.0    |
|             | WDEF-TV | D8   | DT  | BL     | CHATTANOOGA, TN        | DTVBL54385       | 183.1    |

| Service area      |           | Terrain-limited |           | IX-free, before   |           | IX-free, after   |           | Percent New IX |       |
|-------------------|-----------|-----------------|-----------|-------------------|-----------|------------------|-----------|----------------|-------|
| 31606.5           | 5,879,903 | 30341.7         | 5,833,087 | 29345.6           | 5,786,023 | 29329.7          | 5,786,068 | 0.05           | -0.00 |
| Undesired         |           | Total IX        |           | Unique IX, before |           | Unique IX, after |           |                |       |
| WACS-TV D7 DT BL  |           | 288.1           | 9,705     | 172.1             | 3,965     |                  |           |                |       |
| WACS-TV D7 DT BL  |           | 292.1           | 9,595     |                   |           | 188.1            | 3,920     |                |       |
| WVTM-TV D7 DT BL  |           | 364.2           | 28,713    | 212.3             | 22,665    | 216.3            | 22,657    |                |       |
| WXGA-TV D7 DT BL  |           | 132.0           | 5,574     | 28.0              | 257       | 28.0             | 97        |                |       |
| WOLO-TV D7 DT BL  |           | 267.9           | 7,840     | 224.0             | 6,732     | 224.0            | 6,732     |                |       |
| WKNX-TV D7 DT LIC |           | 215.7           | 7,189     | 95.9              | 3,151     | 95.9             | 3,151     |                |       |
| WNPT D7 DT BL     |           | 16.0            | 815       | 0.0               | 0         | 0.0              | 0         |                |       |
| WDEF-TV D8 DT BL  |           | 8.0             | 4         | 8.0               | 4         | 8.0              | 4         |                |       |

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Interference to DTVBL23948 BL, scenario 2

|              | Call      | Chan            | Svc       | Status          | City, State            | File Number      | Distance  |                |       |
|--------------|-----------|-----------------|-----------|-----------------|------------------------|------------------|-----------|----------------|-------|
| Desired:     | WGTV      | D7              | DT        | BL              | ATHENS, GA             | DTVBL23948       |           |                |       |
| Undesireds:  | WACS-TV   | D7              | DT        | BL              | DAWSON, GA             | DTVBL23930       | 211.1 km  |                |       |
|              | WACS-TV   | D7              | DT        | BL              | DAWSON, GA             | DTVBL23930       | 211.1     |                |       |
|              | WVTM-TV   | D7              | DT        | BL              | BIRMINGHAM, AL         | DTVBL74173       | 247.9     |                |       |
|              | WXGA-TV   | D7              | DT        | BL              | WAYCROSS, GA           | DTVBL23929       | 322.7     |                |       |
|              | WOLO-TV   | D7              | DT        | BL              | COLUMBIA, SC           | DTVBL60963       | 313.5     |                |       |
|              | WKNX-TV   | D7              | DT        | LIC             | KNOXVILLE, TN          | BLCDT20040810ABE | 245.8     |                |       |
|              | WNPT      | D7              | DT        | BL              | NASHVILLE, TN          | DTVBL41398       | 349.3     |                |       |
|              | WKIN-CD   | D7              | DC        | LIC             | WEBER CY,VA-KPT,TN, VA | BLANK0000001494  | 334.0     |                |       |
|              | WDEF-TV   | D8              | DT        | BL              | CHATTANOOGA, TN        | DTVBL54385       | 183.1     |                |       |
|              |           |                 |           |                 |                        |                  |           |                |       |
| Service area |           | Terrain-limited |           | IX-free, before |                        | IX-free, after   |           | Percent New IX |       |
| 31606.5      | 5,879,903 | 30341.7         | 5,833,087 | 29345.6         | 5,786,023              | 29329.7          | 5,786,068 | 0.05           | -0.00 |

|                   |          |        |                   |        |                  |        |
|-------------------|----------|--------|-------------------|--------|------------------|--------|
| Undesired         | Total IX |        | Unique IX, before |        | Unique IX, after |        |
| WACS-TV D7 DT BL  | 288.1    | 9,705  | 172.1             | 3,965  |                  |        |
| WACS-TV D7 DT BL  | 292.1    | 9,595  |                   |        | 188.1            | 3,920  |
| WVTM-TV D7 DT BL  | 364.2    | 28,713 | 212.3             | 22,665 | 216.3            | 22,657 |
| WXGA-TV D7 DT BL  | 132.0    | 5,574  | 28.0              | 257    | 28.0             | 97     |
| WOLO-TV D7 DT BL  | 267.9    | 7,840  | 224.0             | 6,732  | 224.0            | 6,732  |
| WKNX-TV D7 DT LIC | 215.7    | 7,189  | 95.9              | 3,151  | 95.9             | 3,151  |
| WNPT D7 DT BL     | 16.0     | 815    | 0.0               | 0      | 0.0              | 0      |
| WDEF-TV D8 DT BL  | 8.0      | 4      | 8.0               | 4      | 8.0              | 4      |

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Interference to DTVBL23929 BL, scenario 1

|                  |         |                 |     |                 |                 |                   |          |                  |      |       |
|------------------|---------|-----------------|-----|-----------------|-----------------|-------------------|----------|------------------|------|-------|
|                  | Call    | Chan            | Svc | Status          | City, State     | File Number       | Distance |                  |      |       |
| Desired:         | WXGA-TV | D7              | DT  | BL              | WAYCROSS, GA    | DTVBL23929        |          |                  |      |       |
| Undesireds:      | WACS-TV | D7              | DT  | BL              | DAWSON, GA      | DTVBL23930        | 203.8 km |                  |      |       |
|                  | WACS-TV | D7              | DT  | BL              | DAWSON, GA      | DTVBL23930        | 203.7    |                  |      |       |
|                  | WACX    | D7              | DT  | BL              | LEESBURG, FL    | DTVBL60018        | 326.2    |                  |      |       |
|                  | WGTV    | D7              | DT  | BL              | ATHENS, GA      | DTVBL23948        | 322.7    |                  |      |       |
|                  | WOLO-TV | D7              | DT  | BL              | COLUMBIA, SC    | DTVBL60963        | 363.5    |                  |      |       |
|                  | WNBW-DT | D8              | DT  | BL              | GAINESVILLE, FL | DTVBL83965        | 176.9    |                  |      |       |
|                  | WVAN-TV | D8              | DT  | BL              | SAVANNAH, GA    | DTVBL23947        | 136.9    |                  |      |       |
|                  |         |                 |     |                 |                 |                   |          |                  |      |       |
| Service area     |         | Terrain-limited |     | IX-free, before |                 | IX-free, after    |          | Percent New IX   |      |       |
| 33461.9          | 606,907 | 33325.2         |     | 605,803         | 32322.9         | 575,022           | 32294.8  | 577,361          | 0.09 | -0.41 |
| Undesired        |         |                 |     | Total IX        |                 | Unique IX, before |          | Unique IX, after |      |       |
| WACS-TV D7 DT BL |         | 731.2           |     | 22,755          | 666.6           | 21,996            |          |                  |      |       |
| WACS-TV D7 DT BL |         | 763.4           |     | 20,419          |                 |                   | 694.7    | 19,657           |      |       |
| WACX D7 DT BL    |         | 20.0            |     | 1,065           | 20.0            | 1,065             | 20.0     | 1,065            |      |       |
| WGTV D7 DT BL    |         | 101.0           |     | 964             | 24.3            | 132               | 20.2     | 129              |      |       |
| WOLO-TV D7 DT BL |         | 28.3            |     | 99              | 4.0             | 0                 | 4.0      | 0                |      |       |
| WVAN-TV D8 DT BL |         | 210.7           |     | 6,756           | 202.6           | 6,743             | 202.6    | 6,743            |      |       |

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Interference to BLCDT20100129ABY LIC, scenario 1

Proposal causes no interference.

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Interference to DTVBL60963 BL, scenario 1

Proposal causes no interference.

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Interference to DTVBL60963 BL, scenario 2

Proposal causes no interference.

Interference to BLCDT20040810ABE LIC, scenario 1

Proposal causes no interference.

Interference to BLCDT20040810ABE LIC, scenario 2

Proposal causes no interference.

Interference to DTVBL13993 BL, scenario 1

|             | Call    | Chan | Svc | Status | City, State           | File Number      | Distance |
|-------------|---------|------|-----|--------|-----------------------|------------------|----------|
| Desired:    | WSFA    | D8   | DT  | BL     | MONTGOMERY, AL        | DTVBL13993       |          |
| Undesireds: | WACS-TV | D7   | DT  | BL     | DAWSON, GA            | DTVBL23930       | 151.7 km |
|             | WACS-TV | D7   | DT  | BL     | DAWSON, GA            | DTVBL23930       | 151.8    |
|             | WVTM-TV | D7   | DT  | BL     | BIRMINGHAM, AL        | DTVBL74173       | 178.6    |
|             | WMAB-TV | D8   | DT  | BL     | MISSISSIPPI STATE, MS | DTVBL43192       | 318.8    |
|             | WDEF-TV | D8   | DT  | BL     | CHATTANOOGA, TN       | DTVBL54385       | 359.8    |
|             | WGWW    | D9   | DT  | LIC    | ANNISTON, AL          | BLCDT20050222ACG | 183.0    |
|             | WALA-TV | D9   | DT  | LIC    | MOBILE, AL            | BLCDT20050316ADI | 211.1    |
|             | WPGX    | D9   | DT  | LIC    | PANAMA CITY, FL       | BLCDT20111122EBL | 185.4    |

| Service area      | Terrain-limited   | IX-free, before   | IX-free, after    | Percent New IX |
|-------------------|-------------------|-------------------|-------------------|----------------|
| 48239.2 1,168,763 | 46953.4 1,135,505 | 46752.5 1,133,051 | 46752.5 1,133,051 | 0.00 0.00      |

| Undesired        | Total IX   | Unique IX, before | Unique IX, after |
|------------------|------------|-------------------|------------------|
| WACS-TV D7 DT BL | 4.1 3      | 4.1 3             |                  |
| WACS-TV D7 DT BL | 4.1 3      |                   | 4.1 3            |
| WVTM-TV D7 DT BL | 40.0 501   | 16.0 13           | 16.0 13          |
| WMAB-TV D8 DT BL | 108.7 321  | 96.7 321          | 96.7 321         |
| WDEF-TV D8 DT BL | 76.1 1,958 | 52.1 1,436        | 52.1 1,436       |
| WGWW D9 DT LIC   | 24.0 391   | 0.0 0             | 0.0 0            |

Interference to proposal, scenario 1

7.00% interference

|             | Call    | Chan | Svc | Status | City, State    | File Number | Distance |
|-------------|---------|------|-----|--------|----------------|-------------|----------|
| Desired:    | WACS-TV | D7   | DT  | BL     | DAWSON, GA     | DTVBL23930  |          |
| Undesireds: | WVTM-TV | D7   | DT  | BL     | BIRMINGHAM, AL | DTVBL74173  | 271.7 km |
|             | WGTV    | D7   | DT  | BL     | ATHENS, GA     | DTVBL23948  | 211.1    |
|             | WXGA-TV | D7   | DT  | BL     | WAYCROSS, GA   | DTVBL23929  | 203.7    |
|             | WSFA    | D8   | DT  | BL     | MONTGOMERY, AL | DTVBL13993  | 151.8    |

| Service area    | Terrain-limited | IX-free         | Percent IX |
|-----------------|-----------------|-----------------|------------|
| 21326.9 623,941 | 21041.7 618,728 | 19667.5 575,409 | 6.53 7.00  |

| Undesired        | Total IX     | Unique IX    | Prct Unique IX |
|------------------|--------------|--------------|----------------|
| WVTM-TV D7 DT BL | 76.5 5,088   | 4.0 0        | 0.02 0.00      |
| WGTV D7 DT BL    | 772.3 25,670 | 534.9 12,263 | 2.54 1.98      |
| WXGA-TV D7 DT BL | 823.3 26,554 | 585.8 17,632 | 2.78 2.85      |