

Post-Transition DTV Considerations

A study was performed using the FCC's software program, *tv_study*, v.2.2.2, to determine if the facility proposed herein is predicted to cause new prohibited interference to post reassignment DTV station, construction permits, DTV allotments, or Class A DTV stations. As demonstrated in the attached study results, the instant proposal is predicted to cause no new interference exceeding 0.5% to the populations served by any post reassignment DTV station, construction permit, allotment, or Class A DTV stations. In addition, the attached study also demonstrates that the predicted service area resulting from the technical facility proposed herein is within the baseline service area plus 1% and the proposed service area population is more than 95.0% of the baseline service area population. Accordingly, the instant proposal satisfies all applicable DTV coverage and DTV interference criteria.

International DTV Considerations

As shown in the attached study, the transmitter site specified herein not within 320 kilometers of either the common border between the United States of America and Canada or between the USA and Mexico. Therefore, international notification and coordination of the instant proposal is not required.

tvstudy v2.2.2
Database: localhost, Study: WNBW_8_280H_4P9K, Model: Longley-Rice
Start: 2017.06.21 20:43:52

Study created: 2017.06.21 20:43:46

Study build station data: LMS TV 2017-06-19 (18)

Proposal: WNBW-DT D8 DT APP GAINESVILLE, FL
File number: WNBW_8_280H_4P9K
Facility ID: 83965
Station data: User record
Record ID: 678
Country: U.S.
Zone: III

Non-U.S. records included

Stations potentially affected:

| Call | Chan | Svc | Status | City, State | File Number | Distance |
|---------|------|-----|--------|------------------|-----------------|----------|
| WACX | D7 | DT | BL | LEESBURG, FL | DTVBL60018 | 185.5 km |
| WXGA-TV | D7 | DT | BL | WAYCROSS, GA | DTVBL23929 | 176.9 |
| WSFA | D8 | DT | BL | MONTGOMERY, AL | DTVBL13993 | 430.4 |
| WVAN-TV | D8 | DT | BL | SAVANNAH, GA | DTVBL23947 | 294.2 |
| WJCT | D9 | DT | APP | JACKSONVILLE, FL | BLANK0000025061 | 120.7 |
| WJCT | D9 | DT | BL | JACKSONVILLE, FL | DTVBL73130 | 120.7 |
| WFLA-TV | D9 | DT | BL | TAMPA, FL | DTVBL64592 | 201.0 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D8

Latitude: 29 37 47.70 N (NAD83)
Longitude: 82 34 24.00 W
Height AMSL: 306.2 m
HAAT: 280.0 m
Peak ERP: 4.90 kW
Antenna: SWR-SWDDP 1-1-1-1 (ID 89879) 0.0 deg

36.0 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|---------|---------|----------|
| 0.0 deg | 4.30 kW | 280.0 m | 85.0 km |
| 45.0 | 4.90 | 273.4 | 85.7 |
| 90.0 | 1.68 | 281.2 | 77.8 |
| 135.0 | 0.199 | 282.0 | 61.3 |
| 180.0 | 0.997 | 284.8 | 73.9 |
| 225.0 | 4.58 | 286.6 | 85.8 |
| 270.0 | 4.34 | 278.9 | 85.0 |
| 315.0 | 4.34 | 281.1 | 85.1 |

Database HAAT does not agree with computed HAAT
Database HAAT: 280 m Computed HAAT: 281 m

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

Distance to Canadian border: 1339.0 km

Distance to Mexican border: 1467.1 km

Conditions at FCC monitoring station: Vero Beach FL
Bearing: 139.5 degrees Distance: 293.9 km
ERP: 0.202 kW Field strength: -15.5 dBu, 0.0 mV/m

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 305.6 degrees Distance: 2361.8 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 DTVBL60018 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL23929 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL13993 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL23947 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL23947 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL23947 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL23947 BL, scenario 4
Proposal causes no interference.

Interference to DTVBL23947 BL, scenario 5
Proposal causes no interference.

Interference to DTVBL23947 BL, scenario 6
Proposal causes no interference.

Interference to DTVBL23947 BL, scenario 7
Proposal causes no interference.

Interference to DTVBL23947 BL, scenario 8
Proposal causes no interference.

Interference to BLANK0000025061 APP, scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|------------------|-----------|-----------------|-----------|-----------------|-------------------|-------------------|----------------|
| Desired: | WJCT | D9 | DT | APP | JACKSONVILLE, FL | BLANK0000025061 | |
| Undesireds: | WNBW-DT | D8 | DT | BL | GAINESVILLE, FL | DTVBL83965 | 120.7 km |
| | WNBW-DT | D8 | DT | APP | GAINESVILLE, FL | WNBW_8_280H_4P9K | 120.7 |
| | WPGX | D9 | DT | LIC | PANAMA CITY, FL | BLCDT20111122EBL | 380.4 |
| | WFLA-TV | D9 | DT | BL | TAMPA, FL | DTVBL64592 | 279.3 |
| | WMUM-TV | D9 | DT | BL | COCHRAN, GA | DTVBL23935 | 291.1 |
| | WITV | D9 | DT | APP | CHARLESTON, SC | BLANK0000025038 | 343.1 |
| | WJXX | D10 | DT | LIC | ORANGE PARK, FL | BLCDT20090702AAK | 1.8 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 27521.9 | 1,618,817 | 27453.8 | 1,617,292 | 26638.5 | 1,598,875 | 26638.5 1,598,875 | 0.00 0.00 |
| Undesired | | | | Total IX | Unique IX, before | Unique IX, after | |
| WNBW-DT D8 DT BL | 72.2 | | | 2,346 | 32.2 | 713 | |

| | | | | | | |
|-------------------|-------|--------|-------|--------|-------|--------|
| WNBW-DT D8 DT APP | 72.2 | 2,346 | | | 32.2 | 713 |
| WFLA-TV D9 DT BL | 583.2 | 17,646 | 519.2 | 15,873 | 519.2 | 15,873 |
| WMUM-TV D9 DT BL | 228.0 | 335 | 195.9 | 58 | 195.9 | 58 |
| WITV D9 DT APP | 4.0 | 0 | 0.0 | 0 | 0.0 | 0 |

Interference to BLANK0000025061 APP, scenario 2

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|--------------|-----------|-----------------|-----------|-----------------|------------------|-------------------|----------------|
| Desired: | WJCT | D9 | DT | APP | JACKSONVILLE, FL | BLANK0000025061 | |
| Undesireds: | WNBW-DT | D8 | DT | BL | GAINESVILLE, FL | DTVBL83965 | 120.7 km |
| | WNBW-DT | D8 | DT | APP | GAINESVILLE, FL | WNBW_8_280H_4P9K | 120.7 |
| | WPGX | D9 | DT | LIC | PANAMA CITY, FL | BLCDDT20111122EBL | 380.4 |
| | WFLA-TV | D9 | DT | BL | TAMPA, FL | DTVBL64592 | 279.3 |
| | WMUM-TV | D9 | DT | BL | COCHRAN, GA | DTVBL23935 | 291.1 |
| | WITV | D9 | DT | BL | CHARLESTON, SC | DTVBL61005 | 343.1 |
| | WJXX | D10 | DT | LIC | ORANGE PARK, FL | BLCDDT20090702AAK | 1.8 |
| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | Percent New IX |
| 27521.9 | 1,618,817 | 27453.8 | 1,617,292 | 26638.5 | 1,598,875 | 26638.5 1,598,875 | 0.00 0.00 |

| Undesired | Total IX | Unique IX, before | Unique IX, after |
|-------------------|--------------|-------------------|------------------|
| WNBW-DT D8 DT BL | 72.2 2,346 | 32.2 713 | |
| WNBW-DT D8 DT APP | 72.2 2,346 | 32.2 713 | |
| WFLA-TV D9 DT BL | 583.2 17,646 | 519.2 15,873 | 519.2 15,873 |
| WMUM-TV D9 DT BL | 228.0 335 | 195.9 58 | 195.9 58 |
| WITV D9 DT BL | 4.0 0 | 0.0 0 | 0.0 0 |

Interference to DTVBL73130 BL, scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|------------------|-------------|----------|
| Desired: | WJCT | D9 | DT | BL | JACKSONVILLE, FL | DTVBL73130 | |
| Undesireds: | WNBW-DT | D8 | DT | BL | GAINESVILLE, FL | DTVBL83965 | 120.7 km |

| | | | | | | |
|---------|-----|----|-----|-----------------|------------------|-------|
| WNBW-DT | D8 | DT | APP | GAINESVILLE, FL | WNBW_8_280H_4P9K | 120.7 |
| WPGX | D9 | DT | LIC | PANAMA CITY, FL | BLCDT20111122EBL | 380.5 |
| WFLA-TV | D9 | DT | BL | TAMPA, FL | DTVBL64592 | 279.3 |
| WMUM-TV | D9 | DT | BL | COCHRAN, GA | DTVBL23935 | 291.1 |
| WITV | D9 | DT | APP | CHARLESTON, SC | BLANK0000025038 | 343.1 |
| WJXX | D10 | DT | LIC | ORANGE PARK, FL | BLCDT20090702AAK | 1.8 |

| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
|--------------|-----------|-----------------|-----------|-----------------|-----------|----------------|-----------|----------------|------|
| 27609.5 | 1,624,624 | 27569.4 | 1,623,998 | 26786.3 | 1,604,242 | 26786.3 | 1,604,242 | 0.00 | 0.00 |

| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | |
|-------------------|-------|----------|-------|-------------------|-------|------------------|--|
| WNBW-DT D8 DT BL | 76.2 | 3,412 | 24.2 | 606 | | | |
| WNBW-DT D8 DT APP | 76.2 | 3,412 | | | 24.2 | 606 | |
| WFLA-TV D9 DT BL | 571.1 | 19,086 | 511.1 | 16,280 | 511.1 | 16,280 | |
| WMUM-TV D9 DT BL | 195.8 | 64 | 183.8 | 64 | 183.8 | 64 | |
| WITV D9 DT APP | 4.0 | 0 | 0.0 | 0 | 0.0 | 0 | |

Interference to DTVBL73130 BL, scenario 2

| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|------------------|------------------|----------|
| | WJCT | D9 | DT | BL | JACKSONVILLE, FL | DTVBL73130 | |
| Undesireds: | WNBW-DT | D8 | DT | BL | GAINESVILLE, FL | DTVBL83965 | 120.7 km |
| | WNBW-DT | D8 | DT | APP | GAINESVILLE, FL | WNBW_8_280H_4P9K | 120.7 |
| | WPGX | D9 | DT | LIC | PANAMA CITY, FL | BLCDT20111122EBL | 380.5 |
| | WFLA-TV | D9 | DT | BL | TAMPA, FL | DTVBL64592 | 279.3 |
| | WMUM-TV | D9 | DT | BL | COCHRAN, GA | DTVBL23935 | 291.1 |
| | WITV | D9 | DT | BL | CHARLESTON, SC | DTVBL61005 | 343.0 |
| | WJXX | D10 | DT | LIC | ORANGE PARK, FL | BLCDT20090702AAK | 1.8 |

| Service area | | Terrain-limited | | IX-free, before | | IX-free, after | | Percent New IX | |
|--------------|-----------|-----------------|-----------|-----------------|-----------|----------------|-----------|----------------|------|
| 27609.5 | 1,624,624 | 27569.4 | 1,623,998 | 26786.3 | 1,604,242 | 26786.3 | 1,604,242 | 0.00 | 0.00 |

| Undesired | | Total IX | | Unique IX, before | | Unique IX, after | |
|------------------|------|----------|------|-------------------|--|------------------|--|
| WNBW-DT D8 DT BL | 76.2 | 3,412 | 24.2 | 606 | | | |

| | | | | | | |
|-------------------|-------|--------|-------|--------|-------|--------|
| WNBW-DT D8 DT APP | 76.2 | 3,412 | | | 24.2 | 606 |
| WFLA-TV D9 DT BL | 571.1 | 19,086 | 511.1 | 16,280 | 511.1 | 16,280 |
| WMUM-TV D9 DT BL | 195.8 | 64 | 183.8 | 64 | 183.8 | 64 |
| WITV D9 DT BL | 4.0 | 0 | 0.0 | 0 | 0.0 | 0 |

Interference to DTVBL64592 BL, scenario 1
Proposal causes no interference.

Interference to DTVBL64592 BL, scenario 2
Proposal causes no interference.

Interference to DTVBL64592 BL, scenario 3
Proposal causes no interference.

Interference to DTVBL64592 BL, scenario 4
Proposal causes no interference.

Interference to proposal, scenario 1
**MX: 4.19% interference

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|------------------|------------------|----------|
| Desired: | WNBW-DT | D8 | DT | APP | GAINESVILLE, FL | WNBW_8_280H_4P9K | |
| Undesireds: | WXGA-TV | D7 | DT | BL | WAYCROSS, GA | DTVBL23929 | 176.9 km |
| | WVAN-TV | D8 | DT | BL | SAVANNAH, GA | DTVBL23947 | 294.2 |
| | WJCT | D9 | DT | APP | JACKSONVILLE, FL | BLANK0000025061 | 120.7 |

| | | | | |
|-----------|--------------|-----------------|-----------|-----------------|
| | Service area | Terrain-limited | IX-free | Percent IX |
| 20028.2 | 633,243 | 19944.0 | 631,197 | 19562.1 |
| | | | 604,744 | 1.92 |
| | | | | 4.19 |
| Undesired | | Total IX | Unique IX | Prcnt Unique IX |

| | | | | | | |
|------------------|-------|--------|-------|--------|------|------|
| WVAN-TV D8 DT BL | 144.6 | 9,016 | 60.1 | 1,155 | 0.30 | 0.18 |
| WJCT D9 DT APP | 321.8 | 25,298 | 237.4 | 17,437 | 1.19 | 2.76 |

Interference to proposal, scenario 2
4.13% interference

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|------------------|------------------|----------|
| Desired: | WNBW-DT | D8 | DT | APP | GAINESVILLE, FL | WNBW_8_280H_4P9K | |
| Undesireds: | WXGA-TV | D7 | DT | BL | WAYCROSS, GA | DTVBL23929 | 176.9 km |
| | WVAN-TV | D8 | DT | BL | SAVANNAH, GA | DTVBL23947 | 294.2 |
| | WJCT | D9 | DT | BL | JACKSONVILLE, FL | DTVBL73130 | 120.7 |

| | Service area | | Terrain-limited | | IX-free | | Percent IX |
|---------|--------------|---------|-----------------|---------|---------|------|------------|
| 20028.2 | 633,243 | 19944.0 | 631,197 | 19554.0 | 605,160 | 1.96 | 4.13 |

| Undesired | | | Total IX | | Unique IX | Prcnt Unique IX |
|------------------|-------|--------|----------|--------|-----------|-----------------|
| WVAN-TV D8 DT BL | 144.6 | 9,016 | 60.1 | 1,155 | 0.30 | 0.18 |
| WJCT D9 DT BL | 329.9 | 24,882 | 245.4 | 17,021 | 1.23 | 2.70 |