

tvstudy v2.2.5 (4uoc83)
Database: 127.0.0.1, Study: BLANK0000148547 #1312, Model: Longley-Rice
Start: 2023.12.30 23:56:03

Study created: 2023.12.30 23:56:03

Study build station data: LMS TV 2023-12-27

Proposal: W34FK-D D34 LD LIC W34FK WQSJ 2.5KW, PR
File number: BLANK0000148547
Facility ID: 181838
Station data: User record
Record ID: 783
Country: U.S.

Stations potentially affected by proposal:

| IX | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-----|---------|------|-----|--------|-------------------|-----------------|----------|
| No | W28EQ-D | N32+ | TX | LIC | UTUADO, PR | BLTT19890703IC | 48.6 km |
| No | W33EL-D | D33 | LD | LIC | CAGUAS, PR | BLANK0000202712 | 122.8 |
| No | WJWN-TV | D33 | DT | LIC | SAN SEBASTIAN, PR | BLANK0000123459 | 28.1 |
| No | W33ED-D | D33 | LD | LIC | VIEQUES, PR | BLANK0000156039 | 160.0 |
| No | WIDP | D34 | DT | LIC | GUAYAMA, PR | BLANK0000078426 | 140.7 |
| Yes | WWKQ-LD | D34- | LD | LIC | QUEBRADILLAS, PR | BLANK0000189709 | 33.1 |
| Yes | WCCV-TV | D35 | DT | LIC | ARECIBO, PR | BLANK0000076642 | 45.8 |
| No | W36EP-D | D35 | LD | CP | YAUCO, PR | BLANK0000170098 | 52.9 |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D34
Mask: Full Service
Latitude: 18 18 38.80 N (NAD83)
Longitude: 67 11 7.60 W
Height AMSL: 372.1 m
HAAT: 0.0 m
Peak ERP: 2.50 kW
Antenna: KAT-75010210 180.0 deg
Elev Pattn: Generic

50.7 dBu contour:

| Azimuth | ERP | HAAT | Distance |
|---------|----------|---------|----------|
| 0.0 deg | 0.021 kW | 350.1 m | 22.1 km |
| 45.0 | 0.007 | 274.6 | 15.1 |
| 90.0 | 0.006 | 208.0 | 12.3 |
| 135.0 | 0.537 | 287.5 | 37.2 |
| 180.0 | 2.50 | 371.9 | 49.7 |
| 225.0 | 0.558 | 372.1 | 40.9 |
| 270.0 | 0.009 | 366.7 | 18.3 |
| 315.0 | 0.011 | 344.5 | 18.7 |

Database HAAT does not agree with computed HAAT
Database HAAT: 0 m Computed HAAT: 322 m

Distance to Canadian border: 2940.6 km

Distance to Mexican border: 3169.9 km

Conditions at FCC monitoring station: Santa Isabel PR
Bearing: 111.5 degrees Distance: 92.1 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:
Bearing: 311.9 degrees Distance: 4364.3 km

Study cell size: 0.50 km
Profile point spacing: 0.05 km

Maximum new IX to full-service and Class A: 0.50%
Maximum new IX to LPTV: 2.00%

Interference to BLANK0000189709 LIC scenario 1

| | Call | Chan | Svc | Status | City, State | File Number | Distance |
|-------------|---------|------|-----|--------|----------------------|-----------------|----------|
| Desired: | WWKQ-LD | D34- | LD | LIC | QUEBRADILLAS, PR | BLANK0000189709 | |
| Undesireds: | W34FK-D | D34 | LD | LIC | W34FK WQSJ 2.5KW, PR | BLANK0000148547 | 33.1 km |
| | WJWN-TV | D33 | DT | LIC | SAN SEBASTIAN, PR | BLANK0000123459 | 37.3 |
| | WIDP | D34 | DT | LIC | GUAYAMA, PR | BLANK0000078426 | 115.5 |
| | WCCV-TV | D35 | DT | LIC | ARECIBO, PR | BLANK0000076642 | 32.5 |

| | | | | |
|----------------|-----------------|-----------------|----------------|----------------|
| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
| 1596.8 228,309 | 1528.7 207,280 | 1387.8 205,771 | 1380.7 203,479 | 0.51 1.11 |

| | | | |
|--------------------|------------|-------------------|------------------|
| Undesired | Total IX | Unique IX, before | Unique IX, after |
| W34FK-D D34 LD LIC | 13.3 3,054 | 7.1 2,292 | |
| WJWN-TV D33 DT LIC | 83.5 972 | 79.1 210 | 75.9 42 |
| WIDP D34 DT LIC | 57.5 705 | 56.3 417 | 56.3 417 |
| WCCV-TV D35 DT LIC | 4.2 594 | 1.0 120 | 0.7 0 |

Interference to BLANK0000076642 LIC scenario 1

| | | | | | | | |
|----------|---------|------|-----|--------|-------------|-----------------|----------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | WCCV-TV | D35 | DT | LIC | ARECIBO, PR | BLANK0000076642 | |

| | | | | | | | |
|-------------|---------|-----|----|-----|----------------------|-----------------|---------|
| Undesireds: | W34FK-D | D34 | LD | LIC | W34FK WQSJ 2.5KW, PR | BLANK0000148547 | 45.8 km |
| | WIDP | D34 | DT | LIC | GUAYAMA, PR | BLANK0000078426 | 95.9 |
| | WIMN-CD | D36 | DC | LIC | ARECIBO, PR | BLANK0000129598 | 27.5 |
| | WVOZ-TV | D36 | DT | LIC | PONCE, PR | BLANK0000073609 | 17.3 |

| | | | | |
|-------------------|-------------------|-------------------|-------------------|----------------|
| Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX |
| 22836.5 3,398,176 | 18501.3 2,681,519 | 17931.2 2,646,355 | 17911.5 2,634,384 | 0.11 0.45 |

| | | | |
|--------------------|--------------|-------------------|------------------|
| Undesired | Total IX | Unique IX, before | Unique IX, after |
| W34FK-D D34 LD LIC | 22.4 11,971 | 19.7 11,971 | |
| WIDP D34 DT LIC | 10.8 13,036 | 10.3 12,953 | 10.3 12,953 |
| WIMN-CD D36 DC LIC | 10.6 2,389 | 10.1 2,306 | 10.1 2,306 |
| WVOZ-TV D36 DT LIC | 549.1 19,822 | 549.1 19,822 | 546.4 19,822 |

Interference to proposal scenario 1
2.77% interference received

| | | | | | | | |
|----------|---------|------|-----|--------|----------------------|-----------------|----------|
| Desired: | Call | Chan | Svc | Status | City, State | File Number | Distance |
| | W34FK-D | D34 | LD | LIC | W34FK WQSJ 2.5KW, PR | BLANK0000148547 | |

| | | | | | | | |
|-------------|---------|------|----|-----|-------------------|-----------------|---------|
| Undesireds: | WJWN-TV | D33 | DT | LIC | SAN SEBASTIAN, PR | BLANK0000123459 | 28.1 km |
| | WWKQ-LD | D34- | LD | LIC | QUEBRADILLAS, PR | BLANK0000189709 | 33.1 |
| | WCCV-TV | D35 | DT | LIC | ARECIBO, PR | BLANK0000076642 | 45.8 |

| | | | |
|----------------|-----------------|----------------|------------|
| Service area | Terrain-limited | IX-free | Percent IX |
| 2800.7 394,646 | 2545.8 355,403 | 2270.9 345,565 | 10.80 2.77 |

| Undesired | | Total IX | | Unique IX | Prcnt Unique IX | |
|---------------------|-------|----------|-------|-----------|-----------------|------|
| WJWN-TV D33 DT LIC | 272.0 | 7,468 | 248.3 | 7,296 | 9.75 | 2.05 |
| WWKQ-LD D34- LD LIC | 3.4 | 2,542 | 3.0 | 2,370 | 0.12 | 0.67 |
| WCCV-TV D35 DT LIC | 23.1 | 0 | 0.0 | 0 | 0.00 | 0.00 |