

Percent allowed new interference: 0.500
Percent allowed new interference to non Class A LPTV: 2.000
Census data selected 2000
Data Base Selected
./data_files/pt_tvdb.sff
TV INTERFERENCE and SPACING ANALYSIS PROGRAM

Date: 02-11-2013 Time: 12:54:14

Record Selected for Analysis (Record is a DTS)

WVPY1-D. BDTS -30000101DTS FRONT ROYAL VA US
Channel 21 ERP 100.00 kw HAAT 0 m RCAMSL 668 m
Latitude 38 -57-36 Longitude 78 -19-52
Status APP Zone 1 Border Site number: 01
Dir Antenna Make usr Model USRPAT01 Beam tilt N Ref Azimuth 0
Last update Cutoff date 40000101 Docket
Comments
Applicant

WVPY2-D. BDTS -30000101DTS FRONT ROYAL VA US
Channel 21 ERP 0.1000 kw HAAT 0 m RCAMSL 680 m
Latitude 38 -36-31 Longitude 78 -54-7.
Status APP Zone 1 Border Site number: 02
Dir Antenna Make usr Model USRPAT02 Beam tilt N Ref Azimuth 0
Last update Cutoff date 40000101 Docket
Comments
Applicant

WVPY3-D. BDTS -30000101DTS FRONT ROYAL VA US
Channel 21 ERP 0.0980 kw HAAT 0 m RCAMSL 958 m
Latitude 38 -36-5. Longitude 78 -37-58
Status APP Zone 1 Border Site number: 03
Dir Antenna Make usr Model USRPAT03 Beam tilt N Ref Azimuth 100
Last update Cutoff date 40000101 Docket
Comments
Applicant

WVPY4-D. BDTS -30000101DTS FRONT ROYAL VA US
Channel 21 ERP 0.5000 kw HAAT 0 m RCAMSL 1190 m
Latitude 38 -28-43 Longitude 78 -24-58
Status APP Zone 1 Border Site number: 04
Dir Antenna Make usr Model USRPAT04 Beam tilt N Ref Azimuth 75
Last update Cutoff date 40000101 Docket
Comments
Applicant

Cell Size for Service Analysis 2.0 km/side

Distance Increments for Longley-Rice Analysis 1.00 km

Facility (site # 01) meets maximum height/power limits

Facility (site # 02) meets maximum height/power limits

Facility (site # 03) meets maximum height/power limits

Facility (site # 04) meets maximum height/power limits

| Site number | 1 | | | |
|-------------|--------|-------|-------------------|--|
| Azimuth | ERP | HAAT | 41.0 dBu F(50,90) | |
| (Deg) | (kw) | (m) | (km) | |
| 0.0 | 98.691 | 467.0 | 90.9 | |
| 45.0 | 97.702 | 473.1 | 91.3 | |
| 90.0 | 51.149 | 497.5 | 88.1 | |
| 135.0 | 2.496 | 403.9 | 63.6 | |
| 180.0 | 7.095 | 343.7 | 66.3 | |
| 225.0 | 73.652 | 236.2 | 71.7 | |
| 270.0 | 98.740 | 405.0 | 87.6 | |
| 315.0 | 98.756 | 385.3 | 86.4 | |

Database HAAT does not agree with computed HAAT
Database HAAT: 0 Computed HAAT: 401

| Site number | 2 | | | |
|-------------|-------|-------|-------------------|--|
| Azimuth | ERP | HAAT | 41.0 dBu F(50,90) | |
| (Deg) | (kw) | (m) | (km) | |
| 0.0 | 0.100 | 120.7 | 30.9 | |
| 45.0 | 0.005 | 251.2 | 22.8 | |
| 90.0 | 0.000 | 318.7 | 9.2 | |
| 135.0 | 0.000 | 286.4 | 8.8 | |
| 180.0 | 0.000 | 241.3 | 8.2 | |
| 225.0 | 0.000 | 82.4 | 5.0 | |
| 270.0 | 0.000 | 33.0 | 3.2 | |
| 315.0 | 0.005 | 92.4 | 13.4 | |

Database HAAT does not agree with computed HAAT
Database HAAT: 0 Computed HAAT: 178

| Site number | 3 | | | |
|-------------|-------|-------|-------------------|--|
| Azimuth | ERP | HAAT | 41.0 dBu F(50,90) | |
| (Deg) | (kw) | (m) | (km) | |
| 0.0 | 0.000 | 643.4 | 12.2 | |
| 45.0 | 0.000 | 642.8 | 15.8 | |
| 90.0 | 0.087 | 662.2 | 50.4 | |
| 135.0 | 0.024 | 499.5 | 39.1 | |
| 180.0 | 0.000 | 651.3 | 12.3 | |
| 225.0 | 0.000 | 536.2 | 11.7 | |
| 270.0 | 0.000 | 612.0 | 12.1 | |
| 315.0 | 0.000 | 618.0 | 12.1 | |

Database HAAT does not agree with computed HAAT
Database HAAT: 0 Computed HAAT: 608

| Site number | 4 | | | |
|-------------|------|------|-------------------|--|
| Azimuth | ERP | HAAT | 41.0 dBu F(50,90) | |
| (Deg) | (kw) | (m) | (km) | |

| | | | |
|-------|-------|-------|------|
| 0.0 | 0.000 | 511.1 | 11.5 |
| 45.0 | 0.192 | 688.0 | 55.9 |
| 90.0 | 0.384 | 851.0 | 63.4 |
| 135.0 | 0.000 | 847.5 | 14.0 |
| 180.0 | 0.000 | 703.3 | 12.7 |
| 225.0 | 0.000 | 339.6 | 9.4 |
| 270.0 | 0.000 | 593.2 | 12.0 |
| 315.0 | 0.000 | 626.7 | 12.1 |

Database HAAT does not agree with computed HAAT
 Database HAAT: 0 Computed HAAT: 645

Evaluation toward Class A Stations from site # 01

No Spacing violations or contour overlap
 to Class A stations from site # 01

Evaluation toward Class A Stations from site # 02

No Spacing violations or contour overlap
 to Class A stations from site # 02

Evaluation toward Class A Stations from site # 03

No Spacing violations or contour overlap
 to Class A stations from site # 03

Evaluation toward Class A Stations from site # 04

No Spacing violations or contour overlap
 to Class A stations from site # 04

Class A Evaluation Complete

SPACING VIOLATION FOUND BETWEEN STATION

WVPY1-D. 21 FRONT ROYAL VA BDTS 30000101DTS Site # 01

and station

SHORT TO: WVPY 21 FRONT ROYAL VA DTVPLN DTVP0769
 38 -57-36 78 -19-52
 Req. separation 196.3 Actual separation 0.0 Short 196.3 km

SHORT TO: WVPY 21 FRONT ROYAL VA BLEDT 20100209AAB
 038-57-36 0078-19-52
 Req. separation 196.3 Actual separation 0.0 Short 196.3 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 01

SPACING VIOLATION FOUND BETWEEN STATION

WVPY2-D. 21 FRONT ROYAL VA BDTS 30000101DTS Site # 02

and station

SHORT TO: WVPY 21 FRONT ROYAL VA DTVPLN DTVP0769
38 -57-36 78 -19-52
Req. separation 196.3 Actual separation 63.1 Short 133.2 km

SHORT TO: WVPY 21 FRONT ROYAL VA BLEDT 20100209AAB
038-57-36 0078-19-52
Req. separation 196.3 Actual separation 63.1 Short 133.2 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 02

SPACING VIOLATION FOUND BETWEEN STATION

WVPY3-D. 21 FRONT ROYAL VA BDTS 30000101DTS Site # 03

and station

SHORT TO: WVPY 21 FRONT ROYAL VA DTVPLN DTVP0769
38 -57-36 78 -19-52
Req. separation 196.3 Actual separation 47.7 Short 148.6 km

SHORT TO: WVPY 21 FRONT ROYAL VA BLEDT 20100209AAB
038-57-36 0078-19-52
Req. separation 196.3 Actual separation 47.7 Short 148.6 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 03

SPACING VIOLATION FOUND BETWEEN STATION

WVPY4-D. 21 FRONT ROYAL VA BDTS 30000101DTS Site # 04

and station

SHORT TO: WVPY 21 FRONT ROYAL VA DTVPLN DTVP0769
38 -57-36 78 -19-52
Req. separation 196.3 Actual separation 53.9 Short 142.4 km

SHORT TO: WVPY 21 FRONT ROYAL VA BLEDT 20100209AAB
038-57-36 0078-19-52
Req. separation 196.3 Actual separation 53.9 Short 142.4 km

LANDMOBILE SPACING VIOLATIONS FOUND

NONE from Site # 04

Checks to Site Number 01

Proposed facility OK to FCC Monitoring Stations
Proposed facility OK toward West Virginia quiet zone
Proposed facility OK toward Table Mountain
Proposed facility is beyond the Canadian coordination distance
Proposed facility is beyond the Mexican coordination distance
Proposed station is OK toward AM broadcast stations

Checks to Site Number 02

Proposed facility OK to FCC Monitoring Stations
Proposed facility within West Virginia quiet zone
Proposed facility OK toward Table Mountain
Proposed facility is beyond the Canadian coordination distance
Proposed facility is beyond the Mexican coordination distance
Proposed station is OK toward AM broadcast stations

Checks to Site Number 03

Proposed facility OK to FCC Monitoring Stations
Proposed facility within West Virginia quiet zone
Proposed facility OK toward Table Mountain
Proposed facility is beyond the Canadian coordination distance
Proposed facility is beyond the Mexican coordination distance
Proposed station is OK toward AM broadcast stations

Checks to Site Number 04

Proposed facility OK to FCC Monitoring Stations
Proposed facility OK toward West Virginia quiet zone

Proposed facility OK toward Table Mountain

Proposed facility is beyond the Canadian coordination distance

Proposed facility is beyond the Mexican coordination distance

Proposed station is OK toward AM broadcast stations

Start of Interference Analysis

| Channel | Proposed Station Call | City/State | ARN | |
|---------|--------------------------|----------------|------|-------------|
| 21 | WVPY1-D. | FRONT ROYAL VA | BDTS | 30000101DTS |

Stations Potentially Affected by Proposed Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-------------------------|----------|--------|-------------|-------------|
| 20 | WWLM-CA | WASHINGTON PA | 212.7 | CP | BDFCDTA | 20081208AAK |
| 20 | WWCW | LYNCHBURG VA | 214.8 | LIC | BLCDT | 20090619ABM |
| 21 | WBOC-TV | SALISBURY MD | 238.5 | LIC | BLCDT | 20090618ABK |
| 21 | WBNS-TV | COLUMBUS OH | 418.3 | APP | BPCDT | 20080620ANA |
| 21 | WBNS-TV | COLUMBUS OH | 418.3 | LIC | BLCDT | 20021025ABK |
| 21 | WHP-TV | HARRISBURG PA | 198.4 | CP | BPCDT | 20100325ABG |
| 21 | WHP-TV | HARRISBURG PA | 198.4 | LIC | BLCDT | 20090615ADL |
| 22 | WRIC-TV | PETERSBURG VA | 173.1 | LIC | BLCDT | 20090209ABZ |
| 24 | WAZH-CA | HARRISONBURG VA | 42.5 | LIC | BLTTL | 19960823JC |
| 25 | WSVF-CA | STAUNTON-WAYNESBORO VA | 73.7 | LIC | BLTTL | 20011107ABW |
| 28 | WAZF-CA | WINCHESTER/FRONT ROY VA | 29.3 | LIC | BLTTL | 19940422IK |

%%%

Analysis of Interference to Affected Station 1

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|---------------|-------------|--------------|
| 20 | WWLM-CA | WASHINGTON PA | BDFCDTA | -20081208AAK |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|-----------------|----------|--------|-------------|--------------|
| 19 | WYFX-LD | YOUNGSTOWN OH | 102.4 | LIC | BLDTL | -20110329AAF |
| 19 | WEMW-CD | GREENBURG PA | 44.4 | APP | BPDTA | -20130122AEO |
| 19 | WEMW-CD | GREENSBURG PA | 55.5 | LIC | BLDTA | -20121108AJY |
| 19 | WEMW-CD | PITTSBURGH PA | 36.5 | APP | BMPDTA | -20121101ABP |
| 20 | WFMJ-TV | YOUNGSTOWN OH | 104.7 | LIC | BLCDT | -20061013ABM |
| 20 | WWCW | LYNCHBURG VA | 323.2 | LIC | BLCDT | -20090619ABM |
| 20 | W20DY-D | ROANOKE WV | 139.0 | CP | BNPDTL | -20100514AAR |
| 21 | WSSS-LP | STEUBENVILLE OH | 36.0 | APP | BDISDTL | -20121022AAR |
| 21 | WPXI | DERRY PA | 86.4 | CP | BDRTCT | -20090610ABT |
| 21 | WVPY1-D. | FRONT ROYAL VA | 212.7 | APP | BDTS | -30000101DTS |
| 21 | WVPY2-D. | FRONT ROYAL VA | | APP | BDTS | -30000101DTS |
| 21 | WVPY3-D. | FRONT ROYAL VA | | APP | BDTS | -30000101DTS |
| 21 | WVPY4-D. | FRONT ROYAL VA | | APP | BDTS | -30000101DTS |

Proposed station is beyond the site to
nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 2

Analysis of current record

| | | | | |
|---------|------|--------------|-------------|--------------|
| Channel | Call | City/State | Application | Ref. No. |
| 20 | WWCW | LYNCHBURG VA | BLCDDT | -20090619ABM |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|--------------------|----------|--------|-------------|--------------|
| 19 | WCWG | LEXINGTON NC | 162.4 | LIC | BLCDDT | -20070418ACV |
| 19 | WCAV | CHARLOTTESVILLE VA | 125.3 | LIC | BLCDDT | -20090522ADB |
| 20 | WUND-TV | EDENTON NC | 333.0 | LIC | BMLED | -20101027ABX |
| 20 | WFMJ-TV | YOUNGSTOWN OH | 426.8 | LIC | BLCDDT | -20061013ABM |
| 21 | WVPY | FRONT ROYAL VA | 214.8 | PLN | DTVPLN | -DTVP0769 |
| 21 | WVPY1-D. | FRONT ROYAL VA | 214.8 | APP | BDTS | -30000101DTS |
| 21 | WVPY2-D. | FRONT ROYAL VA | 156.9 | APP | BDTS | -30000101DTS |
| 21 | WVPY3-D. | FRONT ROYAL VA | 167.2 | APP | BDTS | -30000101DTS |
| 21 | WVPY4-D. | FRONT ROYAL VA | 167.2 | APP | BDTS | -30000101DTS |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 3

Analysis of current record

| | | | | |
|---------|---------|--------------|-------------|--------------|
| Channel | Call | City/State | Application | Ref. No. |
| 21 | WBOC-TV | SALISBURY MD | BLCDDT | -20090618ABK |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|----------------|----------|--------|-------------|--------------|
| 21 | WLIW | GARDEN CITY NY | 315.6 | LIC | BLED | -20090612AEP |
| 21 | WLIW | GARDEN CITY NY | 315.6 | APP | BMPED | -20080620AID |
| 21 | WHP-TV | HARRISBURG PA | 230.0 | CP | BPCDD | -20100325ABG |
| 21 | WHP-TV | HARRISBURG PA | 230.0 | LIC | BLCDDT | -20090615ADL |
| 21 | WVPY | FRONT ROYAL VA | 238.4 | PLN | DTVPLN | -DTVP0769 |
| 22 | WNJS | CAMDEN NJ | 152.5 | CP | BPED | -20080620ALH |
| 22 | WNJS | CAMDEN NJ | 152.5 | LIC | BLED | -20070611AAY |
| 22 | WRIC-TV | PETERSBURG VA | 203.9 | LIC | BLCDDT | -20090209ABZ |
| 21 | WVPY1-D. | FRONT ROYAL VA | 238.5 | APP | BDTS | -30000101DTS |
| 21 | WVPY2-D. | FRONT ROYAL VA | 283.5 | APP | BDTS | -30000101DTS |
| 21 | WVPY3-D. | FRONT ROYAL VA | 260.1 | APP | BDTS | -30000101DTS |
| 21 | WVPY4-D. | FRONT ROYAL VA | 241.2 | APP | BDTS | -30000101DTS |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 4

Analysis of current record

| | | | | |
|---------|---------|-------------|-------------|--------------|
| Channel | Call | City/State | Application | Ref. No. |
| 21 | WBNS-TV | COLUMBUS OH | BPCDD | -20080620ANA |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|-----------------|----------|--------|-------------|--------------|
| 21 | WFYI | INDIANAPOLIS IN | 270.5 | LIC | BLED | -20100803ADB |
| 21 | WUPX-TV | MOREHEAD KY | 235.3 | LIC | BLCDDT | -20040901ACJ |
| 21 | WMYD | DETROIT MI | 275.6 | LIC | BLCDDT | -20040524AOG |
| 21 | WVPY | FRONT ROYAL VA | 418.3 | PLN | DTVPLN | -DTVP0769 |
| 22 | WCPO-TV | CINCINNATI OH | 157.3 | LIC | BLCDDT | -20101216AAF |

| | | | | | |
|----|-------------------------|-------|-----|------|--------------|
| 21 | WVPY1-D. FRONT ROYAL VA | 418.3 | APP | BDTS | -30000101DTS |
| 21 | WVPY2-D. FRONT ROYAL VA | 385.8 | APP | BDTS | -30000101DTS |
| 21 | WVPY3-D. FRONT ROYAL VA | 407.5 | APP | BDTS | -30000101DTS |
| 21 | WVPY4-D. FRONT ROYAL VA | | APP | BDTS | -30000101DTS |

Proposal causes no interference

#####

Analysis of Interference to Affected Station 5

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|-------------|-------------|--------------|
| 21 | WBNS-TV | COLUMBUS OH | BLCDT | -20021025ABK |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|-----------------|----------|--------|-------------|--------------|
| 21 | WFYI | INDIANAPOLIS IN | 270.5 | LIC | BLEDT | -20100803ADB |
| 21 | WUPX-TV | MOREHEAD KY | 235.3 | LIC | BLCDT | -20040901ACJ |
| 21 | WMYD | DETROIT MI | 275.6 | LIC | BLCDT | -20040524AOG |
| 21 | WVPY | FRONT ROYAL VA | 418.3 | PLN | DTVPLN | -DTVP0769 |
| 22 | WCPO-TV | CINCINNATI OH | 157.3 | LIC | BLCDT | -20101216AAF |
| 21 | WVPY1-D. | FRONT ROYAL VA | 418.3 | APP | BDTS | -30000101DTS |
| 21 | WVPY2-D. | FRONT ROYAL VA | 385.8 | APP | BDTS | -30000101DTS |
| 21 | WVPY3-D. | FRONT ROYAL VA | 407.5 | APP | BDTS | -30000101DTS |
| 21 | WVPY4-D. | FRONT ROYAL VA | | APP | BDTS | -30000101DTS |

Proposed station is beyond the site to nearest cell evaluation distance

#####

Analysis of Interference to Affected Station 6

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|--------|---------------|-------------|--------------|
| 21 | WHP-TV | HARRISBURG PA | BPCDT | -20100325ABG |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|----------------|----------|--------|-------------|--------------|
| 21 | WBOC-TV | SALISBURY MD | 230.0 | LIC | BLCDT | -20090618ABK |
| 21 | WLIW | GARDEN CITY NY | 292.6 | LIC | BLEDT | -20090612AEP |
| 21 | WLIW | GARDEN CITY NY | 292.6 | APP | BMPEDT | -20080620AID |
| 21 | WWTI | WATERTOWN NY | 404.1 | LIC | BLCDT | -20040128AFQ |
| 21 | WVPY | FRONT ROYAL VA | 198.4 | PLN | DTVPLN | -DTVP0769 |
| 22 | WNJS | CAMDEN NJ | 185.5 | CP | BPEDT | -20080620ALH |
| 22 | WNJS | CAMDEN NJ | 185.5 | LIC | BLEDT | -20070611AAY |
| 21 | WVPY1-D. | FRONT ROYAL VA | 198.4 | APP | BDTS | -30000101DTS |
| 21 | WVPY2-D. | FRONT ROYAL VA | 260.1 | APP | BDTS | -30000101DTS |
| 21 | WVPY3-D. | FRONT ROYAL VA | 245.9 | APP | BDTS | -30000101DTS |
| 21 | WVPY4-D. | FRONT ROYAL VA | 246.3 | APP | BDTS | -30000101DTS |

Total scenarios = 2

Result key: 1
 Scenario 1 Affected station 6
 Before Analysis

Results for: 21A PA HARRISBURG BPCDT 20100325ABG CP

HAAT 369.0 m, ATV ERP 750.0 kw

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 2763761 | 27696.0 |
| not affected by terrain losses | 2530273 | 24773.4 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 162956 | 1429.2 |
| lost to ATV IX only | 162956 | 1429.2 |
| lost to all IX | 162956 | 1429.2 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|--------------------|--------|-------------|-----|
| 21A MD SALISBURY | BLCDT | 20090618ABK | LIC |
| 21A NY GARDEN CITY | BLEDT | 20090612AEP | LIC |
| 22A NJ CAMDEN | BPEDT | 20080620ALH | CP |
| 21A VA FRONT ROYAL | DTVPLN | DTVP0769 | PLN |

After Analysis

Results for: 21A PA HARRISBURG BPCDT 20100325ABG CP
HAAT 369.0 m, ATV ERP 750.0 kw

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 2763761 | 27696.0 |
| not affected by terrain losses | 2530273 | 24773.4 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 172965 | 1581.7 |
| lost to ATV IX only | 172965 | 1581.7 |
| lost to all IX | 172965 | 1581.7 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|--------------------|-------|-------------|-----|
| 21A MD SALISBURY | BLCDT | 20090618ABK | LIC |
| 21A NY GARDEN CITY | BLEDT | 20090612AEP | LIC |
| 22A NJ CAMDEN | BPEDT | 20080620ALH | CP |
| 21A VA FRONT ROYAL | BDTS | 30000101DTS | APP |

Percent new IX = 0.4228%

Result key: 2
Scenario 2 Affected station 6
Before Analysis

Results for: 21A PA HARRISBURG BPCDT 20100325ABG CP
HAAT 369.0 m, ATV ERP 750.0 kw

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 2763761 | 27696.0 |
| not affected by terrain losses | 2530273 | 24773.4 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 164619 | 1457.3 |
| lost to ATV IX only | 164619 | 1457.3 |
| lost to all IX | 164619 | 1457.3 |

Potential Interfering Stations Included in above Scenario 2

| | | | |
|--------------------|--------|-------------|-----|
| 21A MD SALISBURY | BLCDT | 20090618ABK | LIC |
| 21A NY GARDEN CITY | BMPEDT | 20080620AID | APP |
| 22A NJ CAMDEN | BPEDT | 20080620ALH | CP |
| 21A VA FRONT ROYAL | DTVPLN | DTVP0769 | PLN |

After Analysis

Results for: 21A PA HARRISBURG BPCDT 20100325ABG CP
HAAT 369.0 m, ATV ERP 750.0 kw

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 2763761 | 27696.0 |
| not affected by terrain losses | 2530273 | 24773.4 |

| | | |
|------------------------------|--------|--------|
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 174156 | 1601.8 |
| lost to ATV IX only | 174156 | 1601.8 |
| lost to all IX | 174156 | 1601.8 |

Potential Interfering Stations Included in above Scenario 2

| | | | |
|--------------------|--------|-------------|-----|
| 21A MD SALISBURY | BLCDDT | 20090618ABK | LIC |
| 21A NY GARDEN CITY | BMPEDT | 20080620AID | APP |
| 22A NJ CAMDEN | BPEDT | 20080620ALH | CP |
| 21A VA FRONT ROYAL | BDTS | 30000101DTS | APP |

Percent new IX = 0.4031%

Worst case new IX 0.4228% Scenario 1

#####

Analysis of Interference to Affected Station 7

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|--------|---------------|-------------|--------------|
| 21 | WHP-TV | HARRISBURG PA | BLCDDT | -20090615ADL |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|----------------|----------|--------|-------------|--------------|
| 21 | WBOC-TV | SALISBURY MD | 230.0 | LIC | BLCDDT | -20090618ABK |
| 21 | WLIW | GARDEN CITY NY | 292.6 | LIC | BLEDT | -20090612AEP |
| 21 | WLIW | GARDEN CITY NY | 292.6 | APP | BMPEDT | -20080620AID |
| 21 | WWTI | WATERTOWN NY | 404.1 | LIC | BLCDDT | -20040128AFQ |
| 21 | WVPY | FRONT ROYAL VA | 198.4 | PLN | DTVPLN | -DTPV0769 |
| 22 | WNJS | CAMDEN NJ | 185.5 | CP | BPEDT | -20080620ALH |
| 22 | WNJS | CAMDEN NJ | 185.5 | LIC | BLEDT | -20070611AAY |
| 21 | WVPY1-D. | FRONT ROYAL VA | 198.4 | APP | BDTS | -30000101DTS |
| 21 | WVPY2-D. | FRONT ROYAL VA | 260.1 | APP | BDTS | -30000101DTS |
| 21 | WVPY3-D. | FRONT ROYAL VA | 245.9 | APP | BDTS | -30000101DTS |
| 21 | WVPY4-D. | FRONT ROYAL VA | 246.3 | APP | BDTS | -30000101DTS |

Total scenarios = 2

Result key: 3
 Scenario 1 Affected station 7
 Before Analysis

Results for: 21A PA HARRISBURG BLCDDT 20090615ADL LIC

| | | |
|--------------------------------|------------|--------------|
| HAAT 369.0 m, ATV ERP 450.0 kw | POPULATION | AREA (sq km) |
| within Noise Limited Contour | 2554785 | 25212.2 |
| not affected by terrain losses | 2390544 | 22771.3 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 127827 | 1336.9 |
| lost to ATV IX only | 127827 | 1336.9 |
| lost to all IX | 127827 | 1336.9 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|--------------------|--------|-------------|-----|
| 21A MD SALISBURY | BLCDDT | 20090618ABK | LIC |
| 21A NY GARDEN CITY | BLEDT | 20090612AEP | LIC |
| 21A VA FRONT ROYAL | DTVPLN | DTPV0769 | PLN |

After Analysis

Results for: 21A PA HARRISBURG BLCDT 20090615ADL LIC
HAAT 369.0 m, ATV ERP 450.0 kw

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 2554785 | 25212.2 |
| not affected by terrain losses | 2390544 | 22771.3 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 133487 | 1481.4 |
| lost to ATV IX only | 133487 | 1481.4 |
| lost to all IX | 133487 | 1481.4 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|--------------------|-------|-------------|-----|
| 21A MD SALISBURY | BLCDT | 20090618ABK | LIC |
| 21A NY GARDEN CITY | BLEDT | 20090612AEP | LIC |
| 21A VA FRONT ROYAL | BDTS | 30000101DTS | APP |

Percent new IX = 0.2501%

Result key: 4
Scenario 2 Affected station 7
Before Analysis

Results for: 21A PA HARRISBURG BLCDT 20090615ADL LIC
HAAT 369.0 m, ATV ERP 450.0 kw

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 2554785 | 25212.2 |
| not affected by terrain losses | 2390544 | 22771.3 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 130632 | 1352.9 |
| lost to ATV IX only | 130632 | 1352.9 |
| lost to all IX | 130632 | 1352.9 |

Potential Interfering Stations Included in above Scenario 2

| | | | |
|--------------------|--------|-------------|-----|
| 21A MD SALISBURY | BLCDT | 20090618ABK | LIC |
| 21A NY GARDEN CITY | BMPEDT | 20080620AID | APP |
| 21A VA FRONT ROYAL | DTVPLN | DTVP0769 | PLN |

After Analysis

Results for: 21A PA HARRISBURG BLCDT 20090615ADL LIC
HAAT 369.0 m, ATV ERP 450.0 kw

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 2554785 | 25212.2 |
| not affected by terrain losses | 2390544 | 22771.3 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 136166 | 1493.5 |
| lost to ATV IX only | 136166 | 1493.5 |
| lost to all IX | 136166 | 1493.5 |

Potential Interfering Stations Included in above Scenario 2

| | | | |
|--------------------|--------|-------------|-----|
| 21A MD SALISBURY | BLCDT | 20090618ABK | LIC |
| 21A NY GARDEN CITY | BMPEDT | 20080620AID | APP |
| 21A VA FRONT ROYAL | BDTS | 30000101DTS | APP |

Percent new IX = 0.2449%

Worst case new IX 0.2501% Scenario 1

#####

Analysis of current record

| | | | | |
|---------|---------|---------------|-------------|--------------|
| Channel | Call | City/State | Application | Ref. No. |
| 22 | WRIC-TV | PETERSBURG VA | BLCDT | -20090209ABZ |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|----------------|----------|--------|-------------|--------------|
| 21 | WBOC-TV | SALISBURY MD | 203.9 | LIC | BLCDT | -20090618ABK |
| 21 | WVPY | FRONT ROYAL VA | 173.0 | PLN | DTVPLN | -DTVP0769 |
| 22 | WCNC-TV | CHARLOTTE NC | 399.7 | LIC | BLCDT | -20031211ABN |
| 22 | WCNC-TV | CHARLOTTE NC | 399.7 | CP | BPCDT | -20080617AEH |
| 22 | WNJS | CAMDEN NJ | 343.5 | CP | BPEDT | -20080620ALH |
| 22 | WNJS | CAMDEN NJ | 343.5 | LIC | BLEDT | -20070611AAY |
| 23 | WUNK-TV | GREENVILLE NC | 217.8 | LIC | BLEDT | -20100913ACD |
| 21 | WVPY1-D. | FRONT ROYAL VA | 173.1 | APP | BDTS | -30000101DTS |
| 21 | WVPY2-D. | FRONT ROYAL VA | 166.7 | APP | BDTS | -30000101DTS |
| 21 | WVPY3-D. | FRONT ROYAL VA | 151.0 | APP | BDTS | -30000101DTS |
| 21 | WVPY4-D. | FRONT ROYAL VA | 129.0 | APP | BDTS | -30000101DTS |

Proposal causes no interference

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Analysis of Interference to Affected Station 9

Analysis of current record

| | | | | |
|---------|---------|-----------------|-------------|-------------|
| Channel | Call | City/State | Application | Ref. No. |
| 24 | WAZH-CA | HARRISONBURG VA | BLTTL | -19960823JC |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|--------------------|----------|--------|-------------|--------------|
| 21 | WVPY | FRONT ROYAL VA | 42.5 | PLN | DTVPLN | -DTVP0769 |
| 21 | WVPY | FRONT ROYAL VA | 42.5 | LIC | BLEDT | -20100209AAB |
| 23 | W23DR-D | ROMNEY WV | 50.7 | LIC | BLDTT | -20090609AAZ |
| 24 | WKPI-TV | PIKEVILLE KY | 369.4 | LIC | BLEDT | -20020313ABL |
| 24 | WSFJ-TV | NEWARK OH | 360.2 | LIC | BLCDT | -20060620ABC |
| 24 | WATM-TV | ALTOONA PA | 192.5 | LIC | BLCDT | -20050603ACF |
| 24 | WJET-TV | ERIE PA | 369.4 | LIC | BLCDT | -20090615ACF |
| 24 | WEFC-TV | DANVILLE VA | 216.2 | CP | BPCDT | -20080317AIL |
| 24 | WNVC | FAIRFAX VA | 136.9 | LIC | BLEDT | -20090612ACS |
| 24 | W24DN-D | CLARKSBURG WV | 137.9 | LIC | BLDTL | -20120522AEP |
| 26 | WHAG-TV | HAGERSTOWN MD | 114.9 | LIC | BLCDT | -20090612AFP |
| 28 | WFPT | FREDERICK MD | 136.4 | LIC | BLEDT | -20090330AFA |
| 32 | WVIR-TV | CHARLOTTESVILLE VA | 101.3 | LIC | BLCDT | -20040908AAE |
| 39 | WJAL | HAGERSTOWN MD | 135.3 | LIC | BLCDT | -20090804ACD |
| 21 | WVPY1-D. | FRONT ROYAL VA | 42.5 | APP | BDTS | -30000101DTS |
| 21 | WVPY2-D. | FRONT ROYAL VA | 29.1 | APP | BDTS | -30000101DTS |
| 21 | WVPY3-D. | FRONT ROYAL VA | 32.3 | APP | BDTS | -30000101DTS |
| 21 | WVPY4-D. | FRONT ROYAL VA | 54.1 | APP | BDTS | -30000101DTS |

Proposal causes no interference

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Analysis of Interference to Affected Station 10

Analysis of current record

| | | | | |
|---------|---------|------------------------|-------------|--------------|
| Channel | Call | City/State | Application | Ref. No. |
| 25 | WSVF-CA | STAUNTON-WAYNESBORO VA | BLTTL | -20011107ABW |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|--------------------|----------|--------|-------------|--------------|
| 21 | WVPY | FRONT ROYAL VA | 73.7 | PLN | DTVPLN | -DTVP0769 |
| 21 | WVPY | FRONT ROYAL VA | 73.7 | LIC | BLEDT | -20100209AAB |
| 22 | WRIC-TV | PETERSBURG VA | 141.7 | LIC | BLCDDT | -20090209ABZ |
| 24 | WAZH-CA | HARRISONBURG VA | 51.9 | LIC | BLTTL | -19960823JC |
| 25 | WUNC-TV | CHAPEL HILL NC | 283.0 | LIC | BLEDT | -20090824ABP |
| 25 | KDKA-TV | PITTSBURGH PA | 256.9 | LIC | BLCDDT | -20041004ACS |
| 25 | WTVE | READING PA | 355.2 | LIC | BLCDDT | -20100405ABM |
| 25 | WTVE | READING PA | 329.2 | LIC | BLCDDT | -20100405ABM |
| 25 | WTVE | READING PA | 340.9 | APP | BPCDDT | -20100422ACQ |
| 25 | WTVE | READING PA | 355.2 | LIC | BLCDDT | -20081117ADZ |
| 25 | WTVR-TV | RICHMOND VA | 141.7 | LIC | BLCDDT | -20021204ABA |
| 26 | NEW | HARRISONBURG VA | 51.9 | APP | BDCCDDT | -20061030AAB |
| 32 | WVIR-TV | CHARLOTTESVILLE VA | 52.0 | LIC | BLCDDT | -20040908AAE |
| 21 | WVPY1-D. | FRONT ROYAL VA | 73.7 | APP | BDTS | -30000101DTS |
| 21 | WVPY2-D. | FRONT ROYAL VA | 26.6 | APP | BDTS | -30000101DTS |
| 21 | WVPY3-D. | FRONT ROYAL VA | 26.1 | APP | BDTS | -30000101DTS |
| 21 | WVPY4-D. | FRONT ROYAL VA | 32.3 | APP | BDTS | -30000101DTS |

Proposed station is beyond the site to nearest cell evaluation distance

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Analysis of Interference to Affected Station 11

Analysis of current record

| Channel | Call | City/State | Application | Ref. No. |
|---------|---------|-------------------------|-------------|-------------|
| 28 | WAZF-CA | WINCHESTER/FRONT ROY VA | BLTTL | -19940422IK |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|----------|--------------------|----------|--------|-------------|--------------|
| 21 | WVPY | FRONT ROYAL VA | 29.3 | PLN | DTVPLN | -DTVP0769 |
| 21 | WVPY | FRONT ROYAL VA | 29.3 | LIC | BLEDT | -20100209AAB |
| 24 | WNVC | FAIRFAX VA | 89.9 | LIC | BLEDT | -20090612ACS |
| 26 | WHAG-TV | HAGERSTOWN MD | 55.0 | LIC | BLCDDT | -20090612AFP |
| 27 | WETA-TV | WASHINGTON DC | 98.7 | LIC | BLEDT | -20120731ALN |
| 28 | WFPT | FREDERICK MD | 75.0 | LIC | BLEDT | -20090330AFA |
| 28 | WCPB | SALISBURY MD | 241.5 | CP | BPEDT | -20080318AAC |
| 28 | WCPB | SALISBURY MD | 241.5 | LIC | BLEDT | -20090209AEM |
| 28 | WRDC | DURHAM NC | 392.5 | LIC | BLCDDT | -20090612AID |
| 28 | WNBC | NEW YORK NY | 392.9 | APP | BPCDDT | -20080620ADL |
| 28 | WVTX-CA | BRIDGEPORT OH | 240.6 | LIC | BLTTA | -20100322ABR |
| 28 | WVTX-CA | BRIDGEPORT OH | 240.6 | APP | BSTA | -20061222ABQ |
| 28 | WUAB | LORAIN OH | 386.0 | LIC | BLCDDT | -20020516AAG |
| 29 | WMPB | BALTIMORE MD | 123.5 | LIC | BLEDT | -20090330AEX |
| 30 | WNVT | GOLDVEIN VA | 89.9 | LIC | BLEDT | -20031230AAR |
| 32 | WVIR-TV | CHARLOTTESVILLE VA | 137.3 | LIC | BLCDDT | -20040908AAE |
| 35 | WDCA | WASHINGTON DC | 98.3 | LIC | BLCDDT | -20070411AAH |
| 35 | WDCA | WASHINGTON DC | 98.3 | APP | BPCDDT | -20121105ANF |
| 35 | WDCA | WASHINGTON DC | 98.3 | CP | BPCDDT | -20080620ANP |
| 36 | WTTG | WASHINGTON DC | 98.3 | LIC | BLCDDT | -20080507AAA |
| 36 | WGPT | OAKLAND MD | 98.6 | LIC | BLEDT | -20110509ACO |
| 42 | WMPT | ANNAPOLIS MD | 137.0 | LIC | BLEDT | -20100813BHC |
| 21 | WVPY1-D. | FRONT ROYAL VA | 29.3 | APP | BDTS | -30000101DTS |
| 21 | WVPY2-D. | FRONT ROYAL VA | 90.4 | APP | BDTS | -30000101DTS |
| 21 | WVPY3-D. | FRONT ROYAL VA | 76.9 | APP | BDTS | -30000101DTS |
| 21 | WVPY4-D. | FRONT ROYAL VA | 82.3 | APP | BDTS | -30000101DTS |

Proposal causes no interference

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Analysis of Interference to Affected Station 12

Analysis of current record

DTS STATION

| Channel | Call | City/State | Application | Ref. No. |
|---------|----------|----------------|-------------|--------------|
| 21 | WVPY4-D. | FRONT ROYAL VA | BDTS | -30000101DTS |

Stations Potentially Affecting This Station

| Chan | Call | City/State | Dist(km) | Status | Application | Ref. No. |
|------|---------|---------------|----------|--------|-------------|--------------|
| 20 | WWCW | LYNCHBURG VA | 167.2 | LIC | BLCDT | -20090619ABM |
| 21 | WBOC-TV | SALISBURY MD | 241.2 | LIC | BLCDT | -20090618ABK |
| 21 | WBNS-TV | COLUMBUS OH | 430.2 | APP | BPCDT | -20080620ANA |
| 21 | WBNS-TV | COLUMBUS OH | 430.2 | LIC | BLCDT | -20021025ABK |
| 21 | WHP-TV | HARRISBURG PA | 246.3 | CP | BPCDT | -20100325ABG |
| 21 | WHP-TV | HARRISBURG PA | 246.3 | LIC | BLCDT | -20090615ADL |
| 22 | WRIC-TV | PETERSBURG VA | 129.0 | LIC | BLCDT | -20090209ABZ |

Total scenarios = 2

Result key: 5
Scenario 1 Affected station 12
Before Analysis

Results for: 21A VA FRONT ROYAL BDTS 30000101DTS APP
HAAT 0.0 m, ATV ERP 100.0 kw

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 1408690 | 23702.2 |
| not affected by terrain losses | 1278292 | 21398.7 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 34404 | 827.8 |
| lost to ATV IX only | 34404 | 827.8 |
| lost to all IX | 34404 | 827.8 |

Potential Interfering Stations Included in above Scenario 1

| | | | |
|-------------------|-------|-------------|-----|
| 21A MD SALISBURY | BLCDT | 20090618ABK | LIC |
| 21A PA HARRISBURG | BPCDT | 20100325ABG | CP |

Result key: 6
Scenario 2 Affected station 12
Before Analysis

Results for: 21A VA FRONT ROYAL BDTS 30000101DTS APP
HAAT 0.0 m, ATV ERP 100.0 kw

| | POPULATION | AREA (sq km) |
|--------------------------------|------------|--------------|
| within Noise Limited Contour | 1408690 | 23702.2 |
| not affected by terrain losses | 1278292 | 21398.7 |
| lost to NTSC IX | 0 | 0.0 |
| lost to additional IX by ATV | 29159 | 667.8 |
| lost to ATV IX only | 29159 | 667.8 |
| lost to all IX | 29159 | 667.8 |

Potential Interfering Stations Included in above Scenario 2

| | | | |
|-------------------|-------|-------------|-----|
| 21A MD SALISBURY | BLCDT | 20090618ABK | LIC |
| 21A PA HARRISBURG | BLCDT | 20090615ADL | LIC |

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