



**STATEMENT OF JOHN E. HIDLE, P.E.  
IN SUPPORT OF AN APPLICATION FOR  
A MINOR MODIFICATION TO A  
POST REPACK CONSTRUCTION PERMIT  
FILE # 0000025129  
WCWN - SCHENECTADY, NEW YORK  
DTV - CH. 22 - 750 kW - 426 m HAAT**

Prepared for: WCWN LICENSEE, LLC

I am a Consulting Engineer, an employee in the firm of Carl T. Jones Corporation, with offices located in Springfield, Virginia. My education and experience are a matter of record with the Federal Communications Commission. I am a Licensed Professional Engineer in the Commonwealth of Virginia, License No. 7418, and in the State of New York, License No. 63418.

**GENERAL**

This office has been authorized by WCWN LICENSEE, LLC, licensee of WCWN, channel 43, facility ID number 73264, licensed to Schenectady, New York, to prepare this statement, FCC Form 2100, Schedule A, its technical sections, and the associated exhibits in support of an application for a minor modification of its post-reassignment construction permit, File # 0000025129, that authorizes WCWN to use channel 22 for its post-reassignment broadcasting. The instant application proposes only to increase WCWN's ERP to 750 kW.

## **NON-DIRECTIONAL ANTENNA**

The applicant will continue to use WCWN's existing authorized Dielectric model TUD-O5-12/60-1-B horizontally polarized omni-directional transmitting antenna with its center of radiation located at a height above ground of 139 meters, and a height above average terrain of 426 meters. The antenna manufacturer's vertical plane elevation radiation pattern, illustrating the antenna's radiation characteristics above and below the horizontal plane is shown and tabulated in Exhibit 2.

## **PREDICTED COVERAGE CONTOURS**

The predicted coverage contours were calculated in accordance with the method described in Section 73.625(b) of the Rules, utilizing the appropriate F(50,90) propagation curves (47 CFR Section 73.699, Figure 9), proposed Effective Radiated Power, and antenna height above average terrain as determined for each profile radial. The average terrain on the eight cardinal radials from 3 kilometers to 16 kilometers from the site, was determined using the NED Three Second US Terrain Database as permitted in the FCC Rules. The antenna site elevation and coordinates were determined from FCC antenna registration data. Exhibit 1 shows the predicted Noise Limited (39.56 dBu) contour, and the principal community (48 dBu) contour. The 48 dBu contour completely encompasses the principal community of license, Schenectady, New York.

## **ALLOCATION CONSIDERATIONS**

### ***Post-Transition DTV Considerations***

A study was performed, using the FCC's software, tv\_study, v. 2.2.3, to determine if the instant application for modification of construction permit is predicted to cause new prohibited interference to post reassignment DTV stations, construction permits, DTV allotments or Class A DTV stations. The study results, shown in Appendix B, indicate that the instant application for construction permit 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

### ***International DTV Considerations***

The WCWN site is located 247.1 kilometers from the nearest point on the US-Canadian border. Note that two Canadian DTV facilities are listed in the study as "potentially affected" and are included in the interference analysis. The study results show that neither of the two is affected by the instant proposal. (See Appendix B)

## **BLANKETING AND INTERMODULATION INTERFERENCE**

Other broadcast and non-broadcast facilities are either co-located with, or located within 10 km of the proposed WCWN site. The applicant does recognize its responsibility to remedy complaints of interference that might result from this proposal in accordance with applicable Rules.

## **RADIO\_FREQUENCY IMPACT**

The FCC's guidelines and procedures for evaluating environmental effects of radio frequency (RF) emissions are generally based on recommendations by the National Council on Radiation Protection and Measurements (NCRP) in NCRP Report No. 86 (1986) and by the American National Standards Institute and the Institute of Electrical and Electronic Engineers, LLC (IEEE) in ANSI/IEEE C95.1-1992 (IEEE C95.1-1991). The guidelines define a maximum permissible exposure (MPE) level for occupational or "controlled" situations, and for "uncontrolled" environments that apply in all other cases that might affect the general public. The FCC Office of Engineering and Technology's technical bulletin No. 65 entitled, "Evaluating Compliance with FCC Guidelines for Human Exposure to Radio Frequency Electromagnetic Fields" (Edition 97-01, August 1997), provides assistance to determine whether FCC-regulated transmitting facilities, operations or devices comply with guidelines for human exposure to radio frequency electromagnetic fields as adopted by the Commission in 1996. OET Bulletin No. 65 contains the technical information necessary to evaluate compliance with the FCC's policies and guidelines.

The Maximum Permitted Exposure (MPE) level for broadcast facilities that operate on a frequency between 30 MHz and 300 MHz is 200 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) for an "uncontrolled" environment, and is 1000 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) for a "controlled" environment. The MPE level for broadcast facilities that operate on a frequency between 300 MHz and 1500 MHz, primarily UHF TV stations, is determined for an "uncontrolled" environment by dividing the operating frequency in MHz

by 1.5, and is similarly determined for a “controlled” environment by dividing the operating frequency in MHZ by 0.3.

The predicted emissions of WCWN must be considered, in addition to predicted emissions from any other proposed or existing stations at the site. For WCWN, which will operate on television Channel 22 (518-524 MHZ), the MPE is 347.3 microwatts per centimeter squared ( $\mu\text{W}/\text{cm}^2$ ) in an “uncontrolled” environment and 1,736.7  $\mu\text{W}/\text{cm}^2$  in a “controlled” environment. The proposed WCWN facility will operate with a maximum ERP of 750 kW from a horizontally polarized non-directional transmitting antenna with a centerline height of 139 meters above ground level (AGL). Considering a conservative predicted vertical plane relative field factor of 0.300 the WCWN facility is predicted to produce a power density at two meters above ground level of 120.12  $\mu\text{W}/\text{cm}^2$ , which is 34.58% of the FCC guideline value for an “uncontrolled” environment, and 6.92% of the FCC’s guideline value for “controlled” environments. There are five other full-power DTV stations and one FM station located at the WCWN site. The total estimated percentage of the ANSI value at the proposed site, including the cumulative radiation from all authorizations located within the relevant proximity, is 85.60% of the limit applicable to “uncontrolled” environments, and 17.12% of the limit for “controlled” environments. (See Appendix A)

## **OCCUPATIONAL SAFETY**

The licensee of WCWN is committed to the protection of station personnel and/or tower contractors working in the vicinity of the WCWN antenna, and is committed to

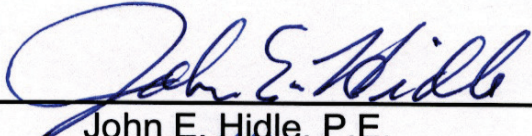
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reducing power or ceasing operation during times of maintenance of the transmission systems, when necessary, to ensure protection to personnel.

**SUMMARY**

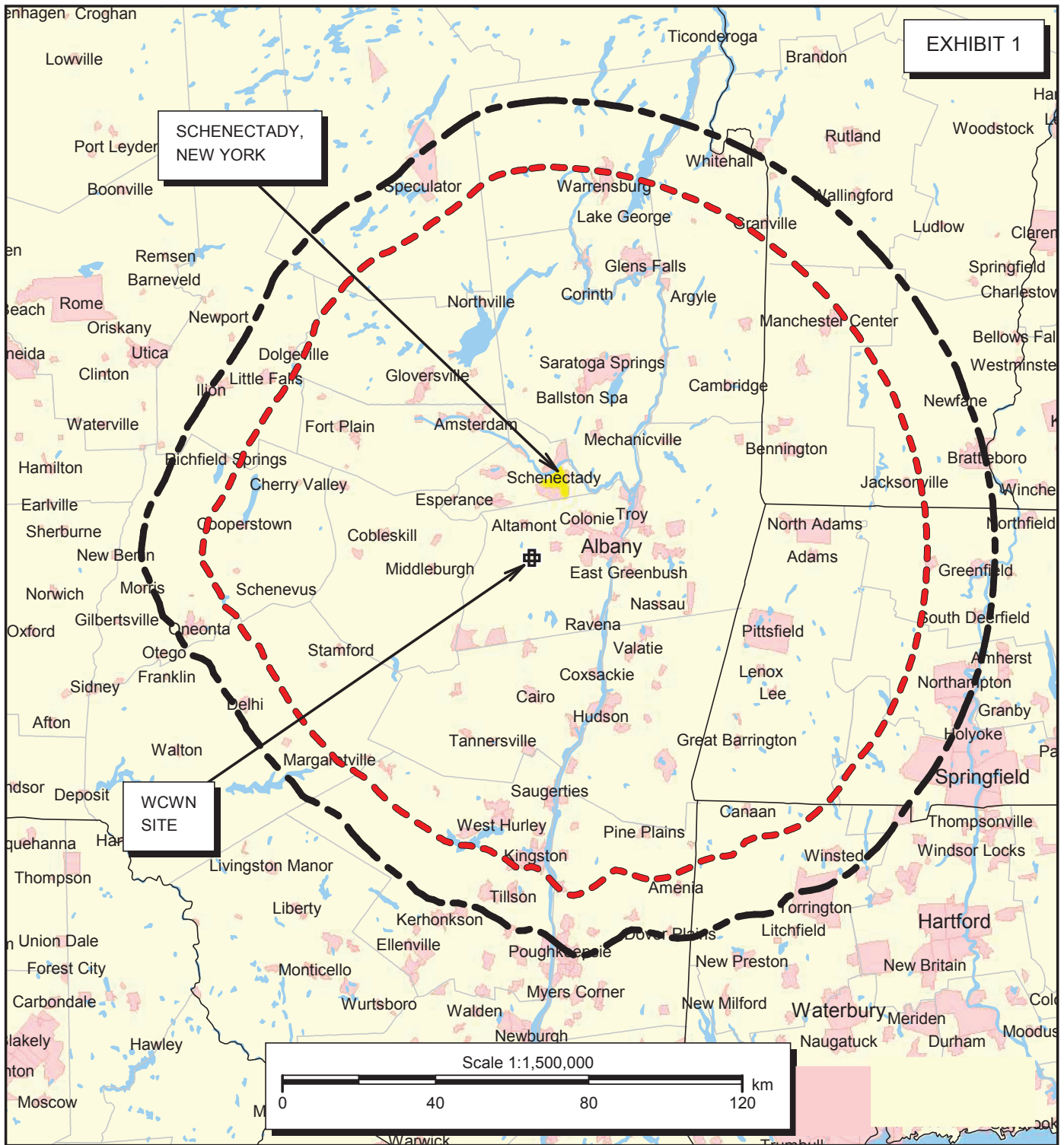
It is submitted that the instant application for minor modification of its post-reassignment channel 22 construction permit to increase WCWN's ERP to 750 kW, as described herein, complies with the Rules, Regulations and relevant Policies of the Federal Communications Commission. This statement, FCC Form 2100, its technical sections, and the attached exhibits were prepared by me or under my direct supervision and are believed to be true and correct to the best of my knowledge and belief.

DATED: October 11, 2017

  
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John E. Hidle, P.E.







## PREDICTED COVERAGE CONTOURS

WCWN - SCHENECTADY, NEW YORK  
DTV Channel 22 - 750 kW ERP - 426 M HAAT  
OCTOBER, 2017

Predicted Noise Limited 39.56 dBu  
F(50,90) Coverage Contour



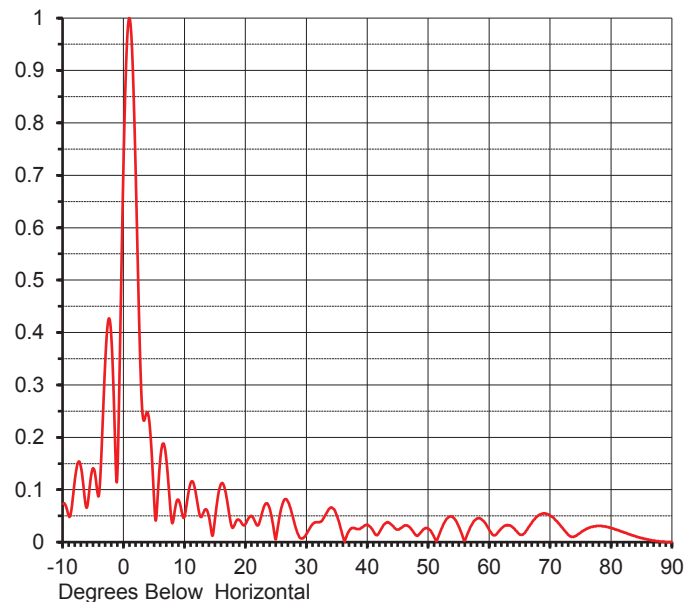
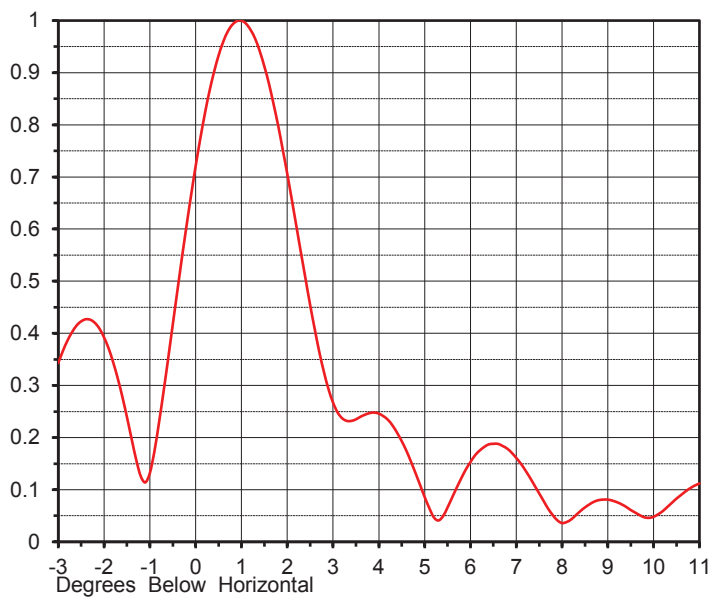
Predicted Principal Community 48 dBu  
F(50,90) Coverage Contour

## ELEVATION PATTERN

Proposal No. **C-70039**  
 Date **27-Mar-17**  
 Call Letters **WCWN**  
 Channel **22**  
 Frequency **521 MHz**  
 Antenna Type **TDU-O5-12/60H-1-B**

RMS Directivity at Main Lobe **23.0 ( 13.62 dB )**  
 RMS Directivity at Horizontal **13.7 ( 11.37 dB )**  
**Calculated**

Beam Tilt **0.75 deg**  
 Pattern Number **12U230075**



| Angle | Field | Angle | Field | Angle | Field | Angle | Field | Angle | Field |
|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| -10.0 | 0.073 | 10.0  | 0.053 | 30.0  | 0.017 | 50.0  | 0.025 | 70.0  | 0.050 |
| -9.0  | 0.048 | 11.0  | 0.115 | 31.0  | 0.035 | 51.0  | 0.007 | 71.0  | 0.040 |
| -8.0  | 0.126 | 12.0  | 0.077 | 32.0  | 0.038 | 52.0  | 0.023 | 72.0  | 0.026 |
| -7.0  | 0.138 | 13.0  | 0.056 | 33.0  | 0.051 | 53.0  | 0.045 | 73.0  | 0.013 |
| -6.0  | 0.071 | 14.0  | 0.044 | 34.0  | 0.066 | 54.0  | 0.047 | 74.0  | 0.011 |
| -5.0  | 0.140 | 15.0  | 0.052 | 35.0  | 0.048 | 55.0  | 0.028 | 75.0  | 0.019 |
| -4.0  | 0.106 | 16.0  | 0.112 | 36.0  | 0.007 | 56.0  | 0.005 | 76.0  | 0.026 |
| -3.0  | 0.366 | 17.0  | 0.072 | 37.0  | 0.023 | 57.0  | 0.032 | 77.0  | 0.030 |
| -2.0  | 0.371 | 18.0  | 0.030 | 38.0  | 0.026 | 58.0  | 0.045 | 78.0  | 0.031 |
| -1.0  | 0.174 | 19.0  | 0.041 | 39.0  | 0.028 | 59.0  | 0.040 | 79.0  | 0.030 |
| 0.0   | 0.773 | 20.0  | 0.036 | 40.0  | 0.033 | 60.0  | 0.022 | 80.0  | 0.027 |
| 1.0   | 0.994 | 21.0  | 0.049 | 41.0  | 0.019 | 61.0  | 0.014 | 81.0  | 0.023 |
| 2.0   | 0.656 | 22.0  | 0.032 | 42.0  | 0.021 | 62.0  | 0.027 | 82.0  | 0.019 |
| 3.0   | 0.248 | 23.0  | 0.069 | 43.0  | 0.037 | 63.0  | 0.032 | 83.0  | 0.015 |
| 4.0   | 0.241 | 24.0  | 0.059 | 44.0  | 0.032 | 64.0  | 0.026 | 84.0  | 0.011 |
| 5.0   | 0.065 | 25.0  | 0.012 | 45.0  | 0.024 | 65.0  | 0.014 | 85.0  | 0.008 |
| 6.0   | 0.166 | 26.0  | 0.073 | 46.0  | 0.031 | 66.0  | 0.022 | 86.0  | 0.005 |
| 7.0   | 0.150 | 27.0  | 0.075 | 47.0  | 0.027 | 67.0  | 0.039 | 87.0  | 0.003 |
| 8.0   | 0.038 | 28.0  | 0.034 | 48.0  | 0.013 | 68.0  | 0.051 | 88.0  | 0.001 |
| 9.0   | 0.079 | 29.0  | 0.007 | 49.0  | 0.023 | 69.0  | 0.055 | 89.0  | 0.000 |
|       |       |       |       |       |       |       |       | 90.0  | 0.000 |

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# SUMMARY OF RADIOFREQUENCY RADIATION STUDY

WCWN, Schenectady, New York  
CHANNEL 22, 750 kW ERP, 426 m HAAT  
October, 2017

| <u>CALL</u> | <u>SERVICE</u> | <u>CHANNEL</u> | <u>FREQUENCY</u> | <u>POLARIZATION</u> | <u>ANTENNA<br/>HEIGHT **<br/>mAGL</u> | <u>ERP<br/>(kW)</u> | <u>VERT.<br/>RELATIVE<br/>FIELD<br/>FACTOR</u> | <u>PREDICTED<br/>POWER DENSITY<br/>(mW/cm<sup>2</sup>)</u> | <u>FCC<br/>UNCONTROLLED<br/>LIMIT<br/>(mW/cm<sup>2</sup>)</u> | <u>PERCENT OF<br/>UNCONTROLLED<br/>LIMIT</u> |
|-------------|----------------|----------------|------------------|---------------------|---------------------------------------|---------------------|--|--|---|--|
| WMHT-FM     | FM             | 206            | 89.1             | H & V               | 82                                    | 6.100               | <note 1>                                       | 0.00149  | 0.200   | 0.75%  |
| WCWN        | DT             | 22             | 521              | H                   | 137                                   | 750.000             | 0.300  | 0.12012  | 0.347   | 34.58%                                       |
| WRGB        | DT             | 6              | 85               | H                   | 104                                   | 30.200              | 0.300  | 0.00839  | 0.200   | 4.20%  |
| WXXA-TV     | DT             | 8              | 183              | H                   | 147                                   | 15.000              | 0.300  | 0.00209  | 0.200   | 1.04%  |
| WNYT        | DT             | 12             | 207              | H                   | 124                                   | 30.000              | 0.300  | 0.00586  | 0.200   | 2.93%  |
| WTEN        | DT             | 24             | 533              | H                   | 137                                   | 669.000             | 0.300  | 0.10715  | 0.355   | 30.15%                                       |
| WMHT        | DT             | 25             | 539              | H                   | 137                                   | 268.000             | 0.300  | 0.04292  | 0.359   | 11.94%                                       |

**TOTAL PERCENTAGE OF ANSI VALUE= 85.60%**

note 1: FM Model Antenna: EPA Type 1; 5-bay, half-wave spaced antenna

\*\* The antenna heights indicated above are 2 meters less than the actual antenna heights

so that the predicted power densities consider the 2 meter human height allowance.

This evaluation includes facilities collocated at the site, and facilities located within 315 meters.



## WCWN - SCHENECTADY, NEW YORK Longley-Rice Interference Analysis

tvstudy v2.2.3 (Dxtpx3)  
Database: localhost, Study: WCWN-22 OMNI 750K 171005, Model: Longley-Rice  
Start: 2017.10.05 14:33:07

Study created: 2017.10.05 14:32:35

Study build station data: LMS TV 2017-10-01 (38)

Proposal: WCWN D22 DT APP SCHENECTADY, NY  
File number: WCWN-22 OMNI 750K 171005  
Facility ID: 73264  
Station data: User record  
Record ID: 1855  
Country: U.S.  
Zone: I

Search options:  
Non-U.S. records included  
Stations affected by proposal:

| Call    | Chan | Svc | Status | City, State    | File Number     | Distance |
|---------|------|-----|--------|----------------|-----------------|----------|
| WUTH-CD | D22  | DC  | CP     | HARTFORD, CT   | BLANK0000028398 | 162.4 km |
| WBPX-TV | D22  | DT  | CP     | BOSTON, MA     | BLANK0000027022 | 231.2    |
| WVMA-CD | D22  | DC  | CP     | WINCHENDON, MA | BLANK0000026206 | 141.4    |
| WDVB-CD | D22  | DC  | CP     | EDISON, NJ     | BLANK0000025114 | 208.6    |
| WXXI-TV | D22  | DT  | CP     | ROCHESTER, NY  | BLANK0000028426 | 296.5    |
| WXXI-TV | D22  | DT  | APP    | ROCHESTER, NY  | BLANK0000029838 | 296.5    |
| WOLF-TV | D22  | DT  | CP     | HAZLETON, PA   | BLANK0000027934 | 222.2    |

No non-directional AM stations found within 0.8 km

No directional AM stations found within 3.2 km

Record parameters as studied:

Channel: D22  
Latitude: 42 37 31.30 N (NAD83)  
Longitude: 74 0 36.70 W  
Height AMSL: 681.8 m  
HAAT: 426.0 m  
Peak ERP: 750 kW  
Antenna: Omnidirectional  
Elev Pattn: Generic  
Elec Tilt: 0.8

39.6 dBu contour:

| Azimuth | ERP    | HAAT    | Distance |
|---------|--------|---------|----------|
| 0.0 deg | 750 kW | 560.4 m | 118.8 km |
| 45.0    | 750    | 586.3   | 120.2    |
| 90.0    | 750    | 592.0   | 120.6    |
| 135.0   | 750    | 522.2   | 116.4    |
| 180.0   | 750    | 296.8   | 96.8     |
| 225.0   | 750    | 214.3   | 85.2     |
| 270.0   | 750    | 344.9   | 101.7    |
| 315.0   | 750    | 300.4   | 97.3     |

Database HAAT does not agree with computed HAAT  
Database HAAT: 426 m Computed HAAT: 427 m

# **Appendix B - Interference Analysis** **WCWN - Schenectady, New York** **Channel 22 - 750 kW - Page 2**

ERP exceeds maximum

ERP: 750 kW ERP maximum: 743 kW

\*\*Proposal service area extends beyond baseline plus 1.0%  
Proposal service area population is more than 95.0% of baseline

\*\*Proposal is within coordination distance of Canadian border  
Distance to Canadian border: 247.1 km

Distance to Mexican border: 2785.3 km

Conditions at FCC monitoring station: Canandaigua NY  
Bearing: 278.0 degrees Distance: 267.6 km

Proposal is not within the West Virginia quiet zone area

Conditions at Table Mountain receiving zone:  
Bearing: 274.6 degrees Distance: 2602.6 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 BLANK0000028398 CP, scenario 1

| Desired:           | Call         | Chan             | Svc               | Status           | City, State      | File Number            | Distance       |
|--------------------|--------------|------------------|-------------------|------------------|------------------|------------------------|----------------|
|                    | WUTH-CD      | D22              | DC                | CP               | HARTFORD, CT     | BLANK0000028398        |                |
| Undesireds:        | WCWN         | D22              | DT                | BL               | SCHENECTADY, NY  | DTVBL73264             | 162.4 km       |
|                    | WCWN         | D22              | DT                | APP              | SCHENECTADY, NY  | WCWN-22 OMNI 750K 1710 | 162.4          |
|                    | WSBK-TV      | D21              | DT                | APP              | BOSTON, MA       | BLANK0000024678        | 122.2          |
|                    | WBPX-TV      | D22              | DT                | CP               | BOSTON, MA       | BLANK0000027022        | 123.0          |
|                    | WVMA-CD      | D22              | DC                | CP               | WINCHENDON, MA   | BLANK0000026206        | 147.5          |
|                    | WFTY-DT      | D23              | DT                | LIC              | SMITHTOWN, NY    | BLCDT20120427ABO       | 99.3           |
| Service area       |              | Terrain-limited  |                   | IX-free, before  |                  | IX-free, after         | Percent New IX |
| 3669.0 1,132,445   |              | 3359.1 1,087,393 |                   | 3262.3 1,069,938 |                  | 3214.0 1,065,037       | 1.48 0.46      |
| Undesired          | Total IX     |                  | Unique IX, before |                  | Unique IX, after |                        |                |
| WCWN D22 DT BL     | 92.7 16,809  |                  | 64.5 5,675        |                  |                  |                        |                |
| WCWN D22 DT APP    | 141.1 21,710 |                  |                   |                  | 112.8 10,576     |                        |                |
| WBPX-TV D22 DT CP  | 8.1 427      |                  | 0.0 0             |                  | 0.0 0            |                        |                |
| WVMA-CD D22 DC CP  | 28.3 11,415  |                  | 4.0 646           |                  | 4.0 646          |                        |                |
| WFTY-DT D23 DT LIC | 4.0 300      |                  | 0.0 0             |                  | 0.0 0            |                        |                |

## ----- Interference to BLANK0000027022 CP, scenario 1

| Desired:           | Call         | Chan              | Svc               | Status            | City, State      | File Number            | Distance       |
|--------------------|--------------|-------------------|-------------------|-------------------|------------------|------------------------|----------------|
|                    | WBPX-TV      | D22               | DT                | CP                | BOSTON, MA       | BLANK0000027022        |                |
| Undesireds:        | WCWN         | D22               | DT                | BL                | SCHENECTADY, NY  | DTVBL73264             | 231.2 km       |
|                    | WCWN         | D22               | DT                | APP               | SCHENECTADY, NY  | WCWN-22 OMNI 750K 1710 | 231.2          |
|                    | WSBK-TV      | D21               | DT                | APP               | BOSTON, MA       | BLANK0000024678        | 1.1            |
|                    | WUTH-CD      | D22               | DC                | CP                | HARTFORD, CT     | BLANK0000028398        | 123.0          |
|                    | WVMA-CD      | D22               | DC                | CP                | WINCHENDON, MA   | BLANK0000026206        | 123.4          |
|                    | WPXG-TV      | D23               | DT                | CP                | CONCORD, NH      | BLANK0000027021        | 97.8           |
| Service area       |              | Terrain-limited   |                   | IX-free, before   |                  | IX-free, after         | Percent New IX |
| 19850.1 6,732,628  |              | 19621.8 6,700,358 |                   | 18981.4 6,617,807 |                  | 18953.3 6,616,051      | 0.15 0.03      |
| Undesired          | Total IX     |                   | Unique IX, before |                   | Unique IX, after |                        |                |
| WCWN D22 DT BL     | 128.1 9,834  |                   | 24.0 2,967        |                   |                  |                        |                |
| WCWN D22 DT APP    | 224.3 23,021 |                   |                   |                   | 52.1 4,723       |                        |                |
| WSBK-TV D21 DT APP | 124.1 19,401 |                   | 112.1 17,854      |                   | 112.1 17,854     |                        |                |

**Appendix B - Interference Analysis**  
**WCWN - Schenectady, New York**  
**Channel 22 - 750 kW - Page 3**

|                   |       |        |       |        |       |        |
|-------------------|-------|--------|-------|--------|-------|--------|
| WUTH-CD D22 DC CP | 68.1  | 6,237  | 32.1  | 3,258  | 24.1  | 1,167  |
| WVMA-CD D22 DC CP | 264.5 | 23,806 | 184.4 | 18,849 | 128.2 | 10,330 |
| WPXG-TV D23 DT CP | 191.8 | 34,354 | 171.8 | 31,209 | 167.8 | 30,388 |

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Interference to BLANK0000027022 CP, scenario 2

| Desired:          | Call      | Chan            | Svc       | Status            | City, State     | File Number            | Distance       |
|-------------------|-----------|-----------------|-----------|-------------------|-----------------|------------------------|----------------|
|                   | WBPX-TV   | D22             | DT        | CP                | BOSTON, MA      | BLANK0000027022        |                |
| Undesireds:       | WCWN      | D22             | DT        | BL                | SCHENECTADY, NY | DTVBL73264             | 231.2 km       |
|                   | WCWN      | D22             | DT        | APP               | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 231.2          |
|                   | WSBK-TV   | D21             | DT        | BL                | BOSTON, MA      | DTVBL73982             | 1.1            |
|                   | WUTH-CD   | D22             | DC        | CP                | HARTFORD, CT    | BLANK0000028398        | 123.0          |
|                   | WVMA-CD   | D22             | DC        | CP                | WINCHENDON, MA  | BLANK0000026206        | 123.4          |
|                   | WPXG-TV   | D23             | DT        | CP                | CONCORD, NH     | BLANK0000027021        | 97.8           |
| Service area      |           | Terrain-limited |           | IX-free, before   |                 | IX-free, after         | Percent New IX |
| 19850.1           | 6,732,628 | 19621.8         | 6,700,358 | 18997.4           | 6,620,150       | 18969.3                | 0.15 0.03      |
| Undesired         |           | Total IX        |           | Unique IX, before |                 | Unique IX, after       |                |
| WCWN D22 DT BL    | 128.1     | 9,834           | 24.0      | 2,967             |                 |                        |                |
| WCWN D22 DT APP   | 224.3     | 23,021          |           |                   | 52.1            | 4,723                  |                |
| WSBK-TV D21 DT BL | 112.1     | 19,038          | 96.1      | 15,511            | 96.1            | 15,511                 |                |
| WUTH-CD D22 DC CP | 68.1      | 6,237           | 32.1      | 3,258             | 24.1            | 1,167                  |                |
| WVMA-CD D22 DC CP | 264.5     | 23,806          | 180.4     | 16,869            | 124.2           | 8,350                  |                |
| WPXG-TV D23 DT CP | 191.8     | 34,354          | 171.8     | 31,209            | 167.8           | 30,388                 |                |

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Interference to BLANK0000026206 CP, scenario 1

| Desired:          | Call    | Chan            | Svc     | Status            | City, State     | File Number            | Distance       |
|-------------------|---------|-----------------|---------|-------------------|-----------------|------------------------|----------------|
|                   | WVMA-CD | D22             | DC      | CP                | WINCHENDON, MA  | BLANK0000026206        |                |
| Undesireds:       | WCWN    | D22             | DT      | BL                | SCHENECTADY, NY | DTVBL73264             | 141.4 km       |
|                   | WCWN    | D22             | DT      | APP               | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 141.4          |
|                   | WSBK-TV | D21             | DT      | APP               | BOSTON, MA      | BLANK0000024678        | 122.5          |
|                   | WUTH-CD | D22             | DC      | CP                | HARTFORD, CT    | BLANK0000028398        | 147.5          |
|                   | WBPX-TV | D22             | DT      | CP                | BOSTON, MA      | BLANK0000027022        | 123.4          |
| Service area      |         | Terrain-limited |         | IX-free, before   |                 | IX-free, after         | Percent New IX |
| 9480.3            | 313,884 | 6518.6          | 184,805 | 6235.1            | 179,209         | 6215.1                 | 0.32 0.15      |
| Undesired         |         | Total IX        |         | Unique IX, before |                 | Unique IX, after       |                |
| WCWN D22 DT BL    | 95.8    | 2,027           | 67.8    | 616               |                 |                        |                |
| WCWN D22 DT APP   | 139.6   | 2,503           |         |                   | 87.7            | 889                    |                |
| WUTH-CD D22 DC CP | 4.0     | 52              | 4.0     | 52                | 4.0             | 52                     |                |
| WBPX-TV D22 DT CP | 211.7   | 4,928           | 183.7   | 3,517             | 159.8           | 3,314                  |                |

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Interference to BLANK0000025114 CP, scenario 1

| Desired:          | Call       | Chan            | Svc        | Status            | City, State     | File Number            | Distance       |
|-------------------|------------|-----------------|------------|-------------------|-----------------|------------------------|----------------|
|                   | WDVB-CD    | D22             | DC         | CP                | EDISON, NJ      | BLANK0000025114        |                |
| Undesireds:       | WCWN       | D22             | DT         | BL                | SCHENECTADY, NY | DTVBL73264             | 208.6 km       |
|                   | WCWN       | D22             | DT         | APP               | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 208.6          |
|                   | WMPB       | D22             | DT         | CP                | BALTIMORE, MD   | BLANK0000025181        | 278.1          |
|                   | WPHY-CD    | D22             | DC         | CP                | TRENTON, NJ     | BLANK0000028171        | 126.6          |
|                   | WOLF-TV    | D22             | DT         | CP                | HAZLETON, PA    | BLANK0000027934        | 165.3          |
| Service area      |            | Terrain-limited |            | IX-free, before   |                 | IX-free, after         | Percent New IX |
| 4909.5            | 11,643,085 | 4753.4          | 11,576,107 | 4697.5            | 11,059,194      | 4693.5                 | 0.09 0.02      |
| Undesired         |            | Total IX        |            | Unique IX, before |                 | Unique IX, after       |                |
| WCWN D22 DT BL    | 8.0        | 853             | 8.0        | 853               |                 |                        |                |
| WCWN D22 DT APP   | 12.0       | 2,997           |            |                   | 12.0            | 2,997                  |                |
| WPHY-CD D22 DC CP | 4.0        | 782             | 4.0        | 782               | 4.0             | 782                    |                |

**Appendix B - Interference Analysis**  
**WCWN - Schenectady, New York**  
**Channel 22 - 750 kW - Page 4**

WOLF-TV D22 DT CP 43.9 515,278 43.9 515,278 43.9 515,278

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Interference to BLANK0000028426 CP, scenario 1

| Desired:    | Call          | Chan    | Svc             | Status  | City, State     | File Number            | Distance       |
|-------------|---------------|---------|-----------------|---------|-----------------|------------------------|----------------|
|             | WXXI-TV       | D22     | DT              | CP      | ROCHESTER, NY   | BLANK0000028426        |                |
| Undesireds: | WCWN          | D22     | DT              | BL      | SCHENECTADY, NY | DTVBL73264             | 296.5 km       |
|             | WCWN          | D22     | DT              | APP     | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 296.5          |
|             | WOLF-TV       | D22     | DT              | CP      | HAZLETON, PA    | BLANK0000027934        | 258.9          |
|             | WETM-TV       | D23     | DT              | APP     | ELMIRA, NY      | BLANK0000029984        | 128.4          |
|             | CICO-DT-53D22 | DT      | LIC             |         | BELLEVILLE, ON  | BLANKCANADA164         | 134.3          |
|             | CICO-DT-28D22 | DT      | LIC             |         | KITCHENER, ON   | BLANKCANADA183         | 232.2          |
|             |               |         |                 |         |                 |                        |                |
|             | Service area  |         | Terrain-limited |         | IX-free, before | IX-free, after         | Percent New IX |
| 12972.0     | 1,154,416     | 12667.3 | 1,143,087       | 12519.6 | 1,133,128       | 12503.6                | 0.13 0.02      |
| 31.6        | 0             | 31.6    | 0               | 27.6    | 0               | 27.6                   | 0.00 0.00 (in  |
| Canada)     |               |         |                 |         |                 |                        |                |

| Undesired             | Total IX | Unique IX, before | Unique IX, after  |
|-----------------------|----------|-------------------|-------------------|
| WCWN D22 DT BL        | 28.0     | 289               | 0.0 0             |
| WCWN D22 DT APP       | 51.9     | 765               | 16.0 179          |
| WOLF-TV D22 DT CP     | 43.9     | 672               | 11.9 321          |
| WETM-TV D23 DT APP    | 8.0      | 0                 | 8.0 0             |
| CICO-DT-53 D22 DT LIC | 95.9     | 5,285             | 75.9 4,938        |
| CICO-DT-53 D22 DT LIC | 3.9      | 0                 | 3.9 0 (in Canada) |
| CICO-DT-28 D22 DT LIC | 20.0     | 4,401             | 8.0 4,106         |

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Interference to BLANK0000028426 CP, scenario 2

| Desired:    | Call          | Chan    | Svc             | Status  | City, State     | File Number            | Distance       |
|-------------|---------------|---------|-----------------|---------|-----------------|------------------------|----------------|
|             | WXXI-TV       | D22     | DT              | CP      | ROCHESTER, NY   | BLANK0000028426        |                |
| Undesireds: | WCWN          | D22     | DT              | BL      | SCHENECTADY, NY | DTVBL73264             | 296.5 km       |
|             | WCWN          | D22     | DT              | APP     | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 296.5          |
|             | WOLF-TV       | D22     | DT              | CP      | HAZLETON, PA    | BLANK0000027934        | 258.9          |
|             | CICO-DT-53D22 | DT      | LIC             |         | BELLEVILLE, ON  | BLANKCANADA164         | 134.3          |
|             | CICO-DT-28D22 | DT      | LIC             |         | KITCHENER, ON   | BLANKCANADA183         | 232.2          |
|             |               |         |                 |         |                 |                        |                |
|             | Service area  |         | Terrain-limited |         | IX-free, before | IX-free, after         | Percent New IX |
| 12972.0     | 1,154,416     | 12667.3 | 1,143,087       | 12527.6 | 1,133,128       | 12511.6                | 0.13 0.02      |
| 31.6        | 0             | 31.6    | 0               | 27.6    | 0               | 27.6                   | 0.00 0.00 (in  |
| Canada)     |               |         |                 |         |                 |                        |                |

| Undesired             | Total IX | Unique IX, before | Unique IX, after  |
|-----------------------|----------|-------------------|-------------------|
| WCWN D22 DT BL        | 28.0     | 289               | 0.0 0             |
| WCWN D22 DT APP       | 51.9     | 765               | 16.0 179          |
| WOLF-TV D22 DT CP     | 43.9     | 672               | 11.9 321          |
| CICO-DT-53 D22 DT LIC | 95.9     | 5,285             | 75.9 4,938        |
| CICO-DT-53 D22 DT LIC | 3.9      | 0                 | 3.9 0 (in Canada) |
| CICO-DT-28 D22 DT LIC | 20.0     | 4,401             | 8.0 4,106         |

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Interference to BLANK0000029838 APP, scenario 1

| Desired:    | Call          | Chan | Svc             | Status | City, State     | File Number            | Distance       |
|-------------|---------------|------|-----------------|--------|-----------------|------------------------|----------------|
|             | WXXI-TV       | D22  | DT              | APP    | ROCHESTER, NY   | BLANK0000029838        |                |
| Undesireds: | WCWN          | D22  | DT              | BL     | SCHENECTADY, NY | DTVBL73264             | 296.5 km       |
|             | WCWN          | D22  | DT              | APP    | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 296.5          |
|             | WOLF-TV       | D22  | DT              | CP     | HAZLETON, PA    | BLANK0000027934        | 258.9          |
|             | WETM-TV       | D23  | DT              | APP    | ELMIRA, NY      | BLANK0000029984        | 128.4          |
|             | CICO-DT-53D22 | DT   | LIC             |        | BELLEVILLE, ON  | BLANKCANADA164         | 134.3          |
|             | CICO-DT-28D22 | DT   | LIC             |        | KITCHENER, ON   | BLANKCANADA183         | 232.2          |
|             |               |      |                 |        |                 |                        |                |
|             | Service area  |      | Terrain-limited |        | IX-free, before | IX-free, after         | Percent New IX |

**Appendix B - Interference Analysis**  
**WCWN - Schenectady, New York**  
**Channel 22 - 750 kW - Page 5**

|         |           |         |           |         |           |         |           |      |      |             |
|---------|-----------|---------|-----------|---------|-----------|---------|-----------|------|------|-------------|
| 14383.2 | 1,184,860 | 14026.3 | 1,168,696 | 13886.4 | 1,165,438 | 13866.5 | 1,165,149 | 0.14 | 0.02 |             |
| 155.7   | 0         | 155.7   | 0         | 115.7   | 0         | 115.7   | 0         | 0.00 | 0.00 | (in Canada) |

| Undesired             |      | Total IX | Unique IX, before | Unique IX, after |                    |
|-----------------------|------|----------|-------------------|------------------|--------------------|
| WCWN D22 DT BL        | 24.0 | 1,445    | 12.0              | 1,114            |                    |
| WCWN D22 DT APP       | 47.9 | 1,781    |                   |                  | 32.0 1,403         |
| WOLF-TV D22 DT CP     | 28.0 | 372      | 24.0              | 312              | 20.0 265           |
| WETM-TV D23 DT APP    | 12.0 | 39       | 12.0              | 39               | 12.0 39            |
| CICO-DT-53 D22 DT LIC | 72.0 | 1,221    | 60.0              | 884              | 60.0 884           |
| CICO-DT-53 D22 DT LIC | 40.0 | 0        | 40.0              | 0                | 40.0 0 (in Canada) |
| CICO-DT-28 D22 DT LIC | 19.9 | 578      | 16.0              | 512              | 16.0 512           |

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Interference to BLANK0000029838 APP, scenario 2

| Desired:    | Call          | Chan            | Svc             | Status         | City, State     | File Number            | Distance              |
|-------------|---------------|-----------------|-----------------|----------------|-----------------|------------------------|-----------------------|
|             | WXXI-TV       | D22             | DT              | APP            | ROCHESTER, NY   | BLANK0000029838        |                       |
| Undesireds: | WCWN          | D22             | DT              | BL             | SCHENECTADY, NY | DTVBL73264             | 296.5 km              |
|             | WCWN          | D22             | DT              | APP            | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 296.5                 |
|             | WOLF-TV       | D22             | DT              | CP             | HAZLETON, PA    | BLANK0000027934        | 258.9                 |
|             | CICO-DT-53D22 | DT              | LIC             | BELLEVILLE, ON | BLANKCANADA164  | 134.3                  |                       |
|             | CICO-DT-28D22 | DT              | LIC             | KITCHENER, ON  | BLANKCANADA183  | 232.2                  |                       |
|             | Service area  | Terrain-limited | IX-free, before | IX-free, after | Percent New IX  |                        |                       |
| 14383.2     | 1,184,860     | 14026.3         | 1,168,696       | 13898.4        | 1,165,477       | 13878.5                | 1,165,188             |
| 155.7       | 0             | 155.7           | 0               | 115.7          | 0               | 115.7                  | 0                     |
|             |               |                 |                 |                |                 |                        | 0.00 0.00 (in Canada) |

| Undesired             |      | Total IX | Unique IX, before | Unique IX, after |                    |
|-----------------------|------|----------|-------------------|------------------|--------------------|
| WCWN D22 DT BL        | 24.0 | 1,445    | 12.0              | 1,114            |                    |
| WCWN D22 DT APP       | 47.9 | 1,781    |                   |                  | 32.0 1,403         |
| WOLF-TV D22 DT CP     | 28.0 | 372      | 24.0              | 312              | 20.0 265           |
| CICO-DT-53 D22 DT LIC | 72.0 | 1,221    | 60.0              | 884              | 60.0 884           |
| CICO-DT-53 D22 DT LIC | 40.0 | 0        | 40.0              | 0                | 40.0 0 (in Canada) |
| CICO-DT-28 D22 DT LIC | 19.9 | 578      | 16.0              | 512              | 16.0 512           |

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Interference to BLANK0000027934 CP, scenario 1

| Desired:    | Call         | Chan            | Svc             | Status         | City, State     | File Number            | Distance  |
|-------------|--------------|-----------------|-----------------|----------------|-----------------|------------------------|-----------|
|             | WOLF-TV      | D22             | DT              | CP             | HAZLETON, PA    | BLANK0000027934        |           |
| Undesireds: | WCWN         | D22             | DT              | BL             | SCHENECTADY, NY | DTVBL73264             | 222.2 km  |
|             | WCWN         | D22             | DT              | APP            | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 222.2     |
|             | WMPB         | D22             | DT              | CP             | BALTIMORE, MD   | BLANK0000025181        | 207.8     |
|             | WDVB-CD      | D22             | DC              | CP             | EDISON, NJ      | BLANK0000025114        | 165.3     |
|             | WPHY-CD      | D22             | DC              | CP             | TRENTON, NJ     | BLANK0000028171        | 136.0     |
|             | WXXI-TV      | D22             | DT              | CP             | ROCHESTER, NY   | BLANK0000028426        | 258.9     |
|             | WTOO-CD      | D22             | DC              | CP             | BOLIVAR, PA     | BLANK0000027766        | 247.5     |
|             | WETM-TV      | D23             | DT              | APP            | ELMIRA, NY      | BLANK0000029984        | 132.1     |
|             | Service area | Terrain-limited | IX-free, before | IX-free, after | Percent New IX  |                        |           |
| 33735.6     | 2,990,646    | 28875.3         | 2,522,858       | 27952.7        | 2,466,819       | 27739.6                | 2,457,550 |
|             |              |                 |                 |                |                 |                        | 0.76 0.38 |

| Undesired          |       | Total IX | Unique IX, before | Unique IX, after |              |
|--------------------|-------|----------|-------------------|------------------|--------------|
| WCWN D22 DT BL     | 353.4 | 18,790   | 269.2             | 12,657           |              |
| WCWN D22 DT APP    | 610.6 | 30,255   |                   |                  | 482.2 21,926 |
| WMPB D22 DT CP     | 232.2 | 21,703   | 168.2             | 14,075           | 164.2 13,976 |
| WDVB-CD D22 DC CP  | 112.3 | 6,506    | 44.2              | 2,258            | 36.1 1,446   |
| WPHY-CD D22 DC CP  | 80.2  | 14,397   | 52.1              | 11,791           | 52.1 11,791  |
| WXXI-TV D22 DT CP  | 88.2  | 2,118    | 36.1              | 1,173            | 36.1 1,173   |
| WTOO-CD D22 DC CP  | 20.0  | 253      | 16.0              | 186              | 16.0 186     |
| WETM-TV D23 DT APP | 220.6 | 4,708    | 184.6             | 3,581            | 160.5 3,055  |

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Interference to BLANK0000027934 CP, scenario 2



**Appendix B - Interference Analysis**  
**WCWN - Schenectady, New York**  
**Channel 22 - 750 kW - Page 6**

|             | Call    | Chan | Svc | Status | City, State     | File Number            | Distance |
|-------------|---------|------|-----|--------|-----------------|------------------------|----------|
| Desired:    | WOLF-TV | D22  | DT  | CP     | HAZLETON, PA    | BLANK0000027934        |          |
| Undesireds: | WCWN    | D22  | DT  | BL     | SCHENECTADY, NY | DTVBL73264             | 222.2 km |
|             | WCWN    | D22  | DT  | APP    | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 222.2    |
|             | WMPB    | D22  | DT  | CP     | BALTIMORE, MD   | BLANK0000025181        | 207.8    |
|             | WDVB-CD | D22  | DC  | CP     | EDISON, NJ      | BLANK0000025114        | 165.3    |
|             | WPHY-CD | D22  | DC  | CP     | TRENTON, NJ     | BLANK0000028171        | 136.0    |
|             | WXXI-TV | D22  | DT  | CP     | ROCHESTER, NY   | BLANK0000028426        | 258.9    |
|             | WTOO-CD | D22  | DC  | CP     | BOLIVAR, PA     | BLANK0000027766        | 247.5    |
|             | WETM-TV | D23  | DT  | CP     | ELMIRA, NY      | BLANK0000028386        | 132.1    |

| Service area      | Terrain-limited   | IX-free, before   | IX-free, after    | Percent New IX |
|-------------------|-------------------|-------------------|-------------------|----------------|
| 33735.6 2,990,646 | 28875.3 2,522,858 | 28085.1 2,469,454 | 27864.0 2,459,966 | 0.79 0.38      |

| Undesired         | Total IX     | Unique IX, before | Unique IX, after |
|-------------------|--------------|-------------------|------------------|
| WCWN D22 DT BL    | 353.4 18,790 | 273.2 12,871      |                  |
| WCWN D22 DT APP   | 610.6 30,255 |                   | 494.2 22,359     |
| WMPB D22 DT CP    | 232.2 21,703 | 168.2 14,075      | 164.2 13,976     |
| WDVB-CD D22 DC CP | 112.3 6,506  | 44.2 2,258        | 36.1 1,446       |
| WPHY-CD D22 DC CP | 80.2 14,397  | 52.1 11,791       | 52.1 11,791      |
| WXXI-TV D22 DT CP | 88.2 2,118   | 40.1 1,215        | 40.1 1,215       |
| WTOO-CD D22 DC CP | 20.0 253     | 16.0 186          | 16.0 186         |
| WETM-TV D23 DT CP | 76.2 1,523   | 52.2 946          | 36.1 639         |

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Interference to BLANK0000027934 CP, scenario 3

|             | Call    | Chan | Svc | Status | City, State     | File Number            | Distance |
|-------------|---------|------|-----|--------|-----------------|------------------------|----------|
| Desired:    | WOLF-TV | D22  | DT  | CP     | HAZLETON, PA    | BLANK0000027934        |          |
| Undesireds: | WCWN    | D22  | DT  | BL     | SCHENECTADY, NY | DTVBL73264             | 222.2 km |
|             | WCWN    | D22  | DT  | APP    | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 222.2    |
|             | WMPB    | D22  | DT  | CP     | BALTIMORE, MD   | BLANK0000025181        | 207.8    |
|             | WDVB-CD | D22  | DC  | CP     | EDISON, NJ      | BLANK0000025114        | 165.3    |
|             | WPHY-CD | D22  | DC  | CP     | TRENTON, NJ     | BLANK0000028171        | 136.0    |
|             | WXXI-TV | D22  | DT  | APP    | ROCHESTER, NY   | BLANK0000029838        | 258.9    |
|             | WTOO-CD | D22  | DC  | CP     | BOLIVAR, PA     | BLANK0000027766        | 247.5    |
|             | WETM-TV | D23  | DT  | APP    | ELMIRA, NY      | BLANK0000029984        | 132.1    |

| Service area      | Terrain-limited   | IX-free, before   | IX-free, after    | Percent New IX |
|-------------------|-------------------|-------------------|-------------------|----------------|
| 33735.6 2,990,646 | 28875.3 2,522,858 | 27892.5 2,465,481 | 27687.5 2,456,368 | 0.73 0.37      |

| Undesired          | Total IX     | Unique IX, before | Unique IX, after |
|--------------------|--------------|-------------------|------------------|
| WCWN D22 DT BL     | 353.4 18,790 | 245.1 12,312      |                  |
| WCWN D22 DT APP    | 610.6 30,255 |                   | 450.2 21,425     |
| WMPB D22 DT CP     | 232.2 21,703 | 168.2 14,075      | 164.2 13,976     |
| WDVB-CD D22 DC CP  | 112.3 6,506  | 40.1 2,211        | 32.0 1,399       |
| WPHY-CD D22 DC CP  | 80.2 14,397  | 52.1 11,791       | 52.1 11,791      |
| WXXI-TV D22 DT APP | 180.5 4,003  | 96.3 2,511        | 88.2 2,355       |
| WTOO-CD D22 DC CP  | 20.0 253     | 16.0 186          | 16.0 186         |
| WETM-TV D23 DT APP | 220.6 4,708  | 184.6 3,581       | 160.5 3,055      |

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Interference to BLANK0000027934 CP, scenario 4

|             | Call    | Chan | Svc | Status | City, State     | File Number            | Distance |
|-------------|---------|------|-----|--------|-----------------|------------------------|----------|
| Desired:    | WOLF-TV | D22  | DT  | CP     | HAZLETON, PA    | BLANK0000027934        |          |
| Undesireds: | WCWN    | D22  | DT  | BL     | SCHENECTADY, NY | DTVBL73264             | 222.2 km |
|             | WCWN    | D22  | DT  | APP    | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 222.2    |
|             | WMPB    | D22  | DT  | CP     | BALTIMORE, MD   | BLANK0000025181        | 207.8    |
|             | WDVB-CD | D22  | DC  | CP     | EDISON, NJ      | BLANK0000025114        | 165.3    |
|             | WPHY-CD | D22  | DC  | CP     | TRENTON, NJ     | BLANK0000028171        | 136.0    |
|             | WXXI-TV | D22  | DT  | APP    | ROCHESTER, NY   | BLANK0000029838        | 258.9    |
|             | WTOO-CD | D22  | DC  | CP     | BOLIVAR, PA     | BLANK0000027766        | 247.5    |
|             | WETM-TV | D23  | DT  | CP     | ELMIRA, NY      | BLANK0000028386        | 132.1    |

**Appendix B - Interference Analysis**  
**WCWN - Schenectady, New York**  
**Channel 22 - 750 kW - Page 7**

| Service area       |           | Terrain-limited |           | IX-free, before   |           | IX-free, after   |           | Percent New IX |      |
|--------------------|-----------|-----------------|-----------|-------------------|-----------|------------------|-----------|----------------|------|
| 33735.6            | 2,990,646 | 28875.3         | 2,522,858 | 28024.9           | 2,468,116 | 27811.9          | 2,458,784 | 0.76           | 0.38 |
| Undesired          |           | Total IX        |           | Unique IX, before |           | Unique IX, after |           |                |      |
| WCWN D22 DT BL     |           | 353.4           | 18,790    | 249.1             | 12,526    |                  |           |                |      |
| WCWN D22 DT APP    |           | 610.6           | 30,255    |                   |           | 462.2            | 21,858    |                |      |
| WMPB D22 DT CP     |           | 232.2           | 21,703    | 168.2             | 14,075    | 164.2            | 13,976    |                |      |
| WDVB-CD D22 DC CP  |           | 112.3           | 6,506     | 40.1              | 2,211     | 32.0             | 1,399     |                |      |
| WPHY-CD D22 DC CP  |           | 80.2            | 14,397    | 52.1              | 11,791    | 52.1             | 11,791    |                |      |
| WXXI-TV D22 DT APP |           | 180.5           | 4,003     | 100.3             | 2,553     | 92.3             | 2,397     |                |      |
| WTOO-CD D22 DC CP  |           | 20.0            | 253       | 16.0              | 186       | 16.0             | 186       |                |      |
| WETM-TV D23 DT CP  |           | 76.2            | 1,523     | 52.2              | 946       | 36.1             | 639       |                |      |

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Interference to BLANK0000027934 CP, scenario 5

| Desired:    | Call    | Chan | Svc | Status | City, State     | File Number            | Distance |
|-------------|---------|------|-----|--------|-----------------|------------------------|----------|
|             | WOLF-TV | D22  | DT  | CP     | HAZLETON, PA    | BLANK0000027934        |          |
| Undesireds: | WCWN    | D22  | DT  | BL     | SCHENECTADY, NY | DTVBL73264             | 222.2 km |
|             | WCWN    | D22  | DT  | APP    | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 222.2    |
|             | WMPB    | D22  | DT  | APP    | BALTIMORE, MD   | BLANK0000029875        | 207.8    |
|             | WDVB-CD | D22  | DC  | CP     | EDISON, NJ      | BLANK0000025114        | 165.3    |
|             | WPHY-CD | D22  | DC  | CP     | TRENTON, NJ     | BLANK0000028171        | 136.0    |
|             | WXXI-TV | D22  | DT  | CP     | ROCHESTER, NY   | BLANK0000028426        | 258.9    |
|             | WTOO-CD | D22  | DC  | CP     | BOLIVAR, PA     | BLANK0000027766        | 247.5    |
|             | WETM-TV | D23  | DT  | APP    | ELMIRA, NY      | BLANK0000029984        | 132.1    |

| Service area       |           | Terrain-limited |           | IX-free, before   |           | IX-free, after   |           | Percent New IX |      |
|--------------------|-----------|-----------------|-----------|-------------------|-----------|------------------|-----------|----------------|------|
| 33735.6            | 2,990,646 | 28875.3         | 2,522,858 | 27820.5           | 2,459,937 | 27615.5          | 2,451,183 | 0.74           | 0.36 |
| Undesired          |           | Total IX        |           | Unique IX, before |           | Unique IX, after |           |                |      |
| WCWN D22 DT BL     |           | 353.4           | 18,790    | 237.1             | 10,286    |                  |           |                |      |
| WCWN D22 DT APP    |           | 610.6           | 30,255    |                   |           | 442.1            | 19,040    |                |      |
| WMPB D22 DT APP    |           | 412.5           | 31,366    | 300.4             | 20,957    | 288.3            | 20,343    |                |      |
| WDVB-CD D22 DC CP  |           | 112.3           | 6,506     | 40.2              | 1,955     | 32.1             | 1,143     |                |      |
| WPHY-CD D22 DC CP  |           | 80.2            | 14,397    | 52.1              | 11,791    | 52.1             | 11,791    |                |      |
| WXXI-TV D22 DT CP  |           | 88.2            | 2,118     | 36.1              | 1,173     | 36.1             | 1,173     |                |      |
| WTOO-CD D22 DC CP  |           | 20.0            | 253       | 12.0              | 146       | 12.0             | 146       |                |      |
| WETM-TV D23 DT APP |           | 220.6           | 4,708     | 184.6             | 3,581     | 160.5            | 3,055     |                |      |

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Interference to BLANK0000027934 CP, scenario 6

| Desired:    | Call    | Chan | Svc | Status | City, State     | File Number            | Distance |
|-------------|---------|------|-----|--------|-----------------|------------------------|----------|
|             | WOLF-TV | D22  | DT  | CP     | HAZLETON, PA    | BLANK0000027934        |          |
| Undesireds: | WCWN    | D22  | DT  | BL     | SCHENECTADY, NY | DTVBL73264             | 222.2 km |
|             | WCWN    | D22  | DT  | APP    | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 222.2    |
|             | WMPB    | D22  | DT  | APP    | BALTIMORE, MD   | BLANK0000029875        | 207.8    |
|             | WDVB-CD | D22  | DC  | CP     | EDISON, NJ      | BLANK0000025114        | 165.3    |
|             | WPHY-CD | D22  | DC  | CP     | TRENTON, NJ     | BLANK0000028171        | 136.0    |
|             | WXXI-TV | D22  | DT  | CP     | ROCHESTER, NY   | BLANK0000028426        | 258.9    |
|             | WTOO-CD | D22  | DC  | CP     | BOLIVAR, PA     | BLANK0000027766        | 247.5    |
|             | WETM-TV | D23  | DT  | CP     | ELMIRA, NY      | BLANK0000028386        | 132.1    |

| Service area      |           | Terrain-limited |           | IX-free, before   |           | IX-free, after   |           | Percent New IX |      |
|-------------------|-----------|-----------------|-----------|-------------------|-----------|------------------|-----------|----------------|------|
| 33735.6           | 2,990,646 | 28875.3         | 2,522,858 | 27952.9           | 2,462,572 | 27739.9          | 2,453,599 | 0.76           | 0.36 |
| Undesired         |           | Total IX        |           | Unique IX, before |           | Unique IX, after |           |                |      |
| WCWN D22 DT BL    |           | 353.4           | 18,790    | 241.1             | 10,500    |                  |           |                |      |
| WCWN D22 DT APP   |           | 610.6           | 30,255    |                   |           | 454.1            | 19,473    |                |      |
| WMPB D22 DT APP   |           | 412.5           | 31,366    | 300.4             | 20,957    | 288.3            | 20,343    |                |      |
| WDVB-CD D22 DC CP |           | 112.3           | 6,506     | 40.2              | 1,955     | 32.1             | 1,143     |                |      |
| WPHY-CD D22 DC CP |           | 80.2            | 14,397    | 52.1              | 11,791    | 52.1             | 11,791    |                |      |
| WXXI-TV D22 DT CP |           | 88.2            | 2,118     | 40.1              | 1,215     | 40.1             | 1,215     |                |      |
| WTOO-CD D22 DC CP |           | 20.0            | 253       | 12.0              | 146       | 12.0             | 146       |                |      |
| WETM-TV D23 DT CP |           | 76.2            | 1,523     | 52.2              | 946       | 36.1             | 639       |                |      |

**Appendix B - Interference Analysis**  
**WCWN - Schenectady, New York**  
**Channel 22 - 750 kW - Page 8**

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Interference to BLANK0000027934 CP, scenario 7

|                    | Call         | Chan            | Svc      | Status            | City, State     | File Number            | Distance                    |
|--------------------|--------------|-----------------|----------|-------------------|-----------------|------------------------|-----------------------------|
| Desired:           | WOLF-TV      | D22             | DT       | CP                | HAZLETON, PA    | BLANK0000027934        |                             |
| Undesireds:        | WCWN         | D22             | DT       | BL                | SCHENECTADY, NY | DTVBL73264             | 222.2 km                    |
|                    | WCWN         | D22             | DT       | APP               | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 222.2                       |
|                    | WMPB         | D22             | DT       | APP               | BALTIMORE, MD   | BLANK0000029875        | 207.8                       |
|                    | WDVB-CD      | D22             | DC       | CP                | EDISON, NJ      | BLANK0000025114        | 165.3                       |
|                    | WPHY-CD      | D22             | DC       | CP                | TRENTON, NJ     | BLANK0000028171        | 136.0                       |
|                    | WXXI-TV      | D22             | DT       | APP               | ROCHESTER, NY   | BLANK0000029838        | 258.9                       |
|                    | WTOO-CD      | D22             | DC       | CP                | BOLIVAR, PA     | BLANK0000027766        | 247.5                       |
|                    | WETM-TV      | D23             | DT       | APP               | ELMIRA, NY      | BLANK0000029984        | 132.1                       |
| -----              |              |                 |          |                   |                 |                        |                             |
|                    | Service area | Terrain-limited |          | IX-free, before   |                 | IX-free, after         | Percent New IX              |
|                    | 33735.6      | 2,990,646       | 28875.3  | 2,522,858         | 27760.3         | 2,458,599              | 27563.4 2,450,001 0.71 0.35 |
| -----              |              |                 |          |                   |                 |                        |                             |
| Undesired          |              |                 | Total IX | Unique IX, before |                 | Unique IX, after       |                             |
| WCWN D22 DT BL     |              |                 | 353.4    | 18,790            |                 | 213.1 9,941            |                             |
| WCWN D22 DT APP    |              |                 | 610.6    | 30,255            |                 | 410.1 18,539           |                             |
| WMPB D22 DT APP    |              |                 | 412.5    | 31,366            |                 | 288.3 20,343           |                             |
| WDVB-CD D22 DC CP  |              |                 | 112.3    | 6,506             |                 | 28.0 1,096             |                             |
| WPHY-CD D22 DC CP  |              |                 | 80.2     | 14,397            |                 | 52.1 11,791            |                             |
| WXXI-TV D22 DT APP |              |                 | 180.5    | 4,003             |                 | 88.2 2,355             |                             |
| WTOO-CD D22 DC CP  |              |                 | 20.0     | 253               |                 | 12.0 146               |                             |
| WETM-TV D23 DT APP |              |                 | 220.6    | 4,708             |                 | 160.5 3,055            |                             |

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Interference to BLANK0000027934 CP, scenario 8

|                    | Call         | Chan            | Svc      | Status            | City, State     | File Number            | Distance                    |
|--------------------|--------------|-----------------|----------|-------------------|-----------------|------------------------|-----------------------------|
| Desired:           | WOLF-TV      | D22             | DT       | CP                | HAZLETON, PA    | BLANK0000027934        |                             |
| Undesireds:        | WCWN         | D22             | DT       | BL                | SCHENECTADY, NY | DTVBL73264             | 222.2 km                    |
|                    | WCWN         | D22             | DT       | APP               | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 | 222.2                       |
|                    | WMPB         | D22             | DT       | APP               | BALTIMORE, MD   | BLANK0000029875        | 207.8                       |
|                    | WDVB-CD      | D22             | DC       | CP                | EDISON, NJ      | BLANK0000025114        | 165.3                       |
|                    | WPHY-CD      | D22             | DC       | CP                | TRENTON, NJ     | BLANK0000028171        | 136.0                       |
|                    | WXXI-TV      | D22             | DT       | APP               | ROCHESTER, NY   | BLANK0000029838        | 258.9                       |
|                    | WTOO-CD      | D22             | DC       | CP                | BOLIVAR, PA     | BLANK0000027766        | 247.5                       |
|                    | WETM-TV      | D23             | DT       | CP                | ELMIRA, NY      | BLANK0000028386        | 132.1                       |
| -----              |              |                 |          |                   |                 |                        |                             |
|                    | Service area | Terrain-limited |          | IX-free, before   |                 | IX-free, after         | Percent New IX              |
|                    | 33735.6      | 2,990,646       | 28875.3  | 2,522,858         | 27892.8         | 2,461,234              | 27687.8 2,452,417 0.73 0.36 |
| -----              |              |                 |          |                   |                 |                        |                             |
| Undesired          |              |                 | Total IX | Unique IX, before |                 | Unique IX, after       |                             |
| WCWN D22 DT BL     |              |                 | 353.4    | 18,790            |                 | 217.1 10,155           |                             |
| WCWN D22 DT APP    |              |                 | 610.6    | 30,255            |                 | 422.1 18,972           |                             |
| WMPB D22 DT APP    |              |                 | 412.5    | 31,366            |                 | 288.3 20,343           |                             |
| WDVB-CD D22 DC CP  |              |                 | 112.3    | 6,506             |                 | 28.0 1,096             |                             |
| WPHY-CD D22 DC CP  |              |                 | 80.2     | 14,397            |                 | 52.1 11,791            |                             |
| WXXI-TV D22 DT APP |              |                 | 180.5    | 4,003             |                 | 92.3 2,397             |                             |
| WTOO-CD D22 DC CP  |              |                 | 20.0     | 253               |                 | 12.0 146               |                             |
| WETM-TV D23 DT CP  |              |                 | 76.2     | 1,523             |                 | 36.1 639               |                             |

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Interference to proposal, scenario 1  
1.16% interference

|             | Call    | Chan | Svc | Status | City, State     | File Number            | Distance |
|-------------|---------|------|-----|--------|-----------------|------------------------|----------|
| Desired:    | WCWN    | D22  | DT  | APP    | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 |          |
| Undesireds: | WUTH-CD | D22  | DC  | CP     | HARTFORD, CT    | BLANK0000028398        | 162.4 km |
|             | WBXP-TV | D22  | DT  | CP     | BOSTON, MA      | BLANK0000027022        | 231.2    |
|             | WVMA-CD | D22  | DC  | CP     | WINCHENDON, MA  | BLANK0000026206        | 141.4    |
|             | WDVB-CD | D22  | DC  | CP     | EDISON, NJ      | BLANK0000025114        | 208.6    |
|             | WXXI-TV | D22  | DT  | CP     | ROCHESTER, NY   | BLANK0000028426        | 296.5    |

**Appendix B - Interference Analysis**  
**WCWN - Schenectady, New York**  
**Channel 22 - 750 kW - Page 9**

|              |           |                 |           |           |              |                 |                 |       |
|--------------|-----------|-----------------|-----------|-----------|--------------|-----------------|-----------------|-------|
| WOLF-TV      |           | D22             | DT        | CP        | HAZLETON, PA |                 | BLANK0000027934 | 222.2 |
| Service area |           | Terrain-limited |           | IX-free   |              | Percent IX      |                 |       |
| 36666.7      | 1,909,223 | 30443.0         | 1,621,751 | 29214.5   | 1,602,943    | 4.04            | 1.16            |       |
| Undesired    |           | Total IX        |           | Unique IX |              | Prcnt Unique IX |                 |       |
| WUTH-CD      | D22 DC CP | 564.5           | 9,694     | 288.1     | 4,843        | 0.95            | 0.30            |       |
| WBPX-TV      | D22 DT CP | 316.3           | 4,774     | 44.0      | 444          | 0.14            | 0.03            |       |
| WVMA-CD      | D22 DC CP | 476.2           | 6,282     | 168.0     | 2,205        | 0.55            | 0.14            |       |
| WDVB-CD      | D22 DC CP | 4.0             | 33        | 0.0       | 0            | 0.00            | 0.00            |       |
| WXXI-TV      | D22 DT CP | 56.1            | 511       | 16.0      | 197          | 0.05            | 0.01            |       |
| WOLF-TV      | D22 DT CP | 384.1           | 6,711     | 283.9     | 4,894        | 0.93            | 0.30            |       |

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Interference to proposal, scenario 2  
\*\*MX: 1.16% interference

| Desired:    | Call    | Chan | Svc | Status | City, State     | File Number            | Distance |
|-------------|---------|------|-----|--------|-----------------|------------------------|----------|
|             | WCWN    | D22  | DT  | APP    | SCHENECTADY, NY | WCWN-22 OMNI 750K 1710 |          |
| Undesireds: | WUTH-CD | D22  | DC  | CP     | HARTFORD, CT    | BLANK0000028398        | 162.4 km |
|             | WBPX-TV | D22  | DT  | CP     | BOSTON, MA      | BLANK0000027022        | 231.2    |
|             | WVMA-CD | D22  | DC  | CP     | WINCHENDON, MA  | BLANK0000026206        | 141.4    |
|             | WDVB-CD | D22  | DC  | CP     | EDISON, NJ      | BLANK0000025114        | 208.6    |
|             | WXXI-TV | D22  | DT  | APP    | ROCHESTER, NY   | BLANK0000029838        | 296.5    |
|             | WOLF-TV | D22  | DT  | CP     | HAZLETON, PA    | BLANK0000027934        | 222.2    |

|              |            |                 |           |           |           |                 |      |  |
|--------------|------------|-----------------|-----------|-----------|-----------|-----------------|------|--|
| Service area |            | Terrain-limited |           | IX-free   |           | Percent IX      |      |  |
| 36666.7      | 1,909,223  | 30443.0         | 1,621,751 | 29202.5   | 1,602,861 | 4.07            | 1.16 |  |
| Undesired    |            | Total IX        |           | Unique IX |           | Prcnt Unique IX |      |  |
| WUTH-CD      | D22 DC CP  | 564.5           | 9,694     | 288.1     | 4,843     | 0.95            | 0.30 |  |
| WBPX-TV      | D22 DT CP  | 316.3           | 4,774     | 44.0      | 444       | 0.14            | 0.03 |  |
| WVMA-CD      | D22 DC CP  | 476.2           | 6,282     | 168.0     | 2,205     | 0.55            | 0.14 |  |
| WDVB-CD      | D22 DC CP  | 4.0             | 33        | 0.0       | 0         | 0.00            | 0.00 |  |
| WXXI-TV      | D22 DT APP | 96.0            | 925       | 28.0      | 279       | 0.09            | 0.02 |  |
| WOLF-TV      | D22 DT CP  | 384.1           | 6,711     | 255.9     | 4,562     | 0.84            | 0.28 |  |